Pre Bid Tie Up

FOR

Partnering with BHEL

ON

Supply & Installation of PV Modules, Floaters, anchoring & mooring system and AMC for 3x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP.

Issued by:

Bharat Heavy Electricals Limited,

Malleshwaram -560012 (hereinafter referred to as 'BHEL')

also

having registered office at

BHEL House, Siri Fort New Delhi-110049 INDIA

BHEL

DISCLAIMER

All information contained in this PBT provided / clarified are in good interest and faith. The information contained in this Expression of Interest document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form, by or on behalf of BHEL, is provided on the terms and conditions set out in this PBT and such other terms and conditions subject to which such information is provided.

The purpose of this PBT is to provide interested parties with information that may be useful to them in the formulation of their application for qualification and subsequent selection pursuant to this PBT. This PBT is not an offer by BHEL to the prospective Bidder(s) or any other person. This PBT is neither intended nor shall it be construed as creating or requiring any ongoing or continuing relationship or commitment with any party or person. This is not an offer or invitation to enter into an agreement of any kind with any party.

Though adequate care has been taken in the preparation of this PBT document, the interested firms shall satisfy itself that the document is complete in all respects. The information is not intended to be exhaustive. Interested Agencies are required to make their own enquiries and assumptions wherever required. Intimation of discrepancy, if any, should be given to the specified office immediately. If no intimation is received by this office by the date mentioned in the document, it shall be deemed that the PBT document is complete in all respects and firms submitting their interest are satisfied with the PBT Document in all respects.

The issue of this PBT does not imply that BHEL is bound to select and shortlist Bidder(s) for next stage or to enter into any agreement(s) with any Bidder(s). BHEL reserves all right to reject any applications submitted in response to this PBT document at any stage without assigning any reasons thereof. BHEL also reserves the right to withhold or withdraw the process at any stage. Neither BHEL nor its employees and associates will have any liability any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this PBT document or any matter deemed to form part of this PBT document, the information and any other information supplied by or on behalf of BHEL. BHEL accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance/use of any statements/information contained in this PBT by the Bidder. BHEL is not making any representation or warranty, express or implied, as to the accuracy or completeness of any information/statements made in this PBT.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Application including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by BHEL or any other costs incurred in connection with or relating to its Application. All such costs and expenses will remain with the Bidder and BHEL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Bidder in preparation or submission of the Application, regardless of the conduct or outcome of the PBT.

1.0 INTRODUCTION

This Expression of Interest (PBT) seeks response from Original Equipment Manufacturer (OEMs) who are involved in designing or have past experience in manufacturing of Modules and floaters.

2.0 ABOUT BHEL

Bharat Heavy Electricals Limited (BHEL) is a Central Public Sector Enterprise, wherein Government of India is holding 63.06% of its equity. It is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing companies of its kind in India having a turnover of about USD 5 billion. The company is engaged in the design, engineering, manufacture, construction, testing, commissioning and servicing of a wide range of products and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable Energy, Oil & Gas and Defence with over 180 product offerings to meet the needs of these sectors.

Since its inception in 1964, BHEL has been the solid bedrock of evolution of India's Heavy Electrical Equipment industry. BHEL has a mammoth 20,000 MW per annum capability for manufacturing of power generation equipment. A widespread network of 17 manufacturing units, 2 repair units, 4 regional offices, 8 service centres, 1 subsidiary, 4 overseas offices, 6 joint ventures, 15 regional marketing centres and current project execution at more than 150 project sites across India and abroad corroborates the humongous scale and size of its operations.

With key focus on project execution, the worldwide installed base of power generating equipment supplied by BHEL has exceeded 178 GW. BHEL's equipment that account for about 60% of the country's total generation from thermal utility sets (coal based), stand a testimony to its valuable contribution towards nation building. BHEL's global competitiveness has established its footprint in all the inhabited continents with references in 82 countries.

The high level of quality & reliability of BHEL products is a testimony to its adherence to international standards by acquiring and adapting some of the best technologies from leading companies in the world including General Electric, Siemens AG, Mitsubishi Heavy Industries Ltd. etc., together with technologies developed in its own R&D centres. BHEL invests more than 2.5% of turnover on R&D and innovation.

BHEL has been designing and manufacturing rolling stock for rail and urban transportation. BHEL has also been manufacturing Motors, Power electronics and Controllers for various transportation applications at its various factories. BHEL also has a Battery Packaging facility for space applications.

In Solar Business, BHEL is into the manufacture of cells, Modules and setting up solar Power plant land mounted and Floater projects.

At Solar Business division, Bangalore, we manufacture complete solar cells of 100 MW capacity and Modules of 200 MW capacity.

More details about the entire range of BHEL's products and operations can be obtained by visiting our web site www.bhel.com.

3.0 PURPOSE

3.1 BHEL is a regular Equipment supplier in the field solar business.

3.2 RUMSL vide RUMSL-2021-TN000001 has called for RFP to DEVELOPMENT OF 600 MW FLOATING SOLAR PARK at OMKARESHWAR RESERVOIR, MADHYA PRADESH.

3.3 The intent of this Pre Bid Tie up hereinafter referred to as the "PBT" is to invite offers from interested organizations / companies who are willing to Partner with BHEL for identified scope of bidder for execution of contracts for the above mentioned Train Sets:

3.4 Interested organizations / companies/parties to submit their proposal for Sl.no. 1 and 2 together.

3.5 BHEL shall select suitable partner(s) who meet Pre-Qualification Criteria (PQR) for the intended business tie-up and shall enter into a Memorandum of Understanding (MoU)/ Pre-bid tie-up with selected partner(s).

3.6 The chosen partner(s) shall also be required to enter into **mutually exclusive pre-bid tie up arrangement** with BHEL to provide due support for fulfilling the contractual obligations of BHEL to the customer i.e. RUMSL. Preference shall be given to the bidders who are willing for joint consortium bidding as per the tender requirements. Also the selected bidder, after entering into a mutually exclusive agreement with BHEL, cannot quote directly or enter into any kind of joint arrangement with any other party for the above mentioned items (Modules and Floaters) tender.

3.7 Manufacturing /sourcing of all other items of Tender (BOI's are in BHEL's scope).

4.0 Scope of Activities for mentioned Tender:

As per the specifications referred in tender conditions.

Your offer shall be submitted in two parts strictly as per "Instructions to Bidders" of GCC, Rev R0 in sealed covers.

Your best quotation / offer for the above requirement, in line with our terms and conditions, should either be delivered in person or sent by COURIER/REGISTERED POST, to the following address only:

Offer can also be submitted thru email to email ids specified below only: -

PART-A (I) BID i.e. TECHNICAL BID on technicalbid-epd@bhel.in
PART-B (II) BID i.e. PRICE BID on pricebid-epd@bhel.in

NOTE: -

1. Tender reference & due date to be mentioned in subject of mail.

2. Bidders may adopt this mode at their own risk. The Purchaser does not own any responsibility /liability for delays in receipt / loss of secrecy of such offers.

It shall be the responsibility of the bidder to ensure that the tender is submitted on or before the due date **02.05.2022** by **02:00 P.M**.

Part-I bids shall be opened at **02:30 P.M**. on the due date in the presence of authorized representatives of the bidders, who may like to be present.

The bidder is required to clearly mention

1. Tender Ref., RFQ/Tender Due Date & Name of the item in BOLD LETTERS on the top of each envelope submitted.
2. Name and contact details (including mobile no. and email address) of minimum one contact person along with date of submission of offer in a cover letter.

BHEL

Pre-Qualification Requirements-Commercial

S.N.	Requirement	Bidder's Response	Supporting document
1	Has sufficient engineering/design/manufacturing capabilities for design, development, manufacturing, testing and commissioning of proposed scope of work.		Self certification
2	Has not been blacklisted / banned business dealings by BHEL or any Government Department of India.		Declaration on company's letter head.
3	No previous contract has been terminated either in full or part due to Bidder's failure.		Declaration on company's letter head.
4	Has not suffered insolvency / bankruptcy.		Declaration, Copy of Audited Balance sheet.
5	Respondent must have positive net worth as of last three financial years.		Declaration, Copy of Audited Balance sheet.

Any other documents considered relevant to meet PQR and to support evaluation criteria are to be submitted.

NOTE : Bidders with deviations to the above mentioned PQR are also encouraged to submit their proposal. However acceptance/suitability of such responses shall rest with BHEL and same decision shall be final and binding.

(Sign & Company Seal)

Authorized signatory

BHEL

UN PRICE FORMAT- FOR INDIAN SUPPLIERS FOR Mono crystalline PV Module & Floaters

Rev 00 | **26.04.2022**

TENDER REF: PBT/Omkareshwar

SUPPLIER's NAME:

Currency : INR

Sl.No	Item Description:	Unit of Measurement	Percentage of Weightage on Total price	HSN Code	Qty (1)	Ex-works price INR excluding freight & inculding P&F	Inland freight up to site	Unit FOR Site	Total FOR Site PRICE [1X2] = [3] INR	CGST @ _____%=(4)INR	SGST @ _____%=(5)INR	IGST @ _____%=(5) INR	TOTAL PRICE = (6)=(3)+(4)+(5) (Currency)
								For Indigenous supplies					
1a	Supply of Monocrystalline PV Module	KW	70-80%		1,35,625								
1b	Supply of HDPE 'Floaters	KW	15-20%		1,35,625								
1c	Supply of Anchoring and Mooring Items	KW	5-10%		1,35,625								
1d	Installation of items mentioned in sl no 1a to 1c	KW	1-5%		1,35,625		NA	NA					
1c	AMC	KW	1-5%		1,35,625		NA	NA					

Evaluation shall be done on Cost to BHEL basis for complate package on- Cost to comapny-Omkareshwar site basis

TOTAL PRICE =(6)=Sum of Two line items

TOTAL PRICE IN WORDS (6) :

Price shall be firm till the completion of order execution.

DATE:

PLACE:

BIDDER's SIGN & SEAL

UN PRICE FORMAT- FOR FOREIGN SUPPLIERS FOR Mono crystalline PV Module & Floaters

26.04.2022

TENDER REF: PBT/Omkareshwar

Sl.No	Item Description:	Unit of Measurement	HSN Code	Percentage of Weightage on Total price	Qty (1)	Quoted Currency in INR / Other Currency	CPT-Mumbai RATE In Figures To be entered by the Bidder in their quoted currency (Insurance in BHEL Scope)	TOTAL AMOUNT excluding taxes in bidder quoted currency
1a	Supply of Monocrystalline PV Module	KW		70-80%	1,35,625			
1b	Supply of HDPE 'Floaters	KW		15-20%	1,35,625			
1c	Supply of Anchoring and Mooring Items	KW		5-10%	1,35,625			
1d	Installation of items mentioned in sl no 1a to 1c	KW		1-5%	1,35,625			
1c	AMC	KW		1-5%	1,35,625			
	Evaluation shall be done on Cost to BHEL basis for complate package on- Cost to comapny-Omkareshwar site basis							
	TOTAL PRICE IN WORDS (6) :							

Price shall be firm till the completion of order execution.

DATE:
PLACE:

	PRICE FORMAT- FOR INDIAN SUPPLIERS FOR Mono crystalline PV Module & Floaters	**Rev 00**	**26.04.2022**

TENDER REF: PBT/Omkareshwar

SUPPLIER's NAME:

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								For Indigenous supplies					
1a	Supply of Monocrystalline PV Module	KW		70-80%	1,35,625								
1b	Supply of HDPE 'Floaters	KW		15-20%	1,35,625								
1c	Supply of Anchoring and Mooring Items	KW		5-10%	1,35,625								
1d	Installation of items mentioned in sl no 1a to 1c	KW		1-5%	1,35,625		NA	NA					
1c	AMC	KW		1-5%	1,35,625		NA	NA					

1. Evaluation shall be done on Cost to BHEL basis for complate package on- Cost to comapany-Omkareshwar site basis

2. Bidder shall quote for complete scope of the tender ie. For all the line items.

TOTAL PRICE =(6)=Sum of Two line items

~~HSN CODE:~~ _____

TOTAL PRICE IN WORDS (6) :

Price shall be firm till the completion of order execution.

DATE:

PLACE:

BIDDER's SIGN & SEAL

PRICE FORMAT- FOR FOREIGN SUPPLIERS FOR Mono crystalline PV Module & Floaters

26.04.2022

TENDER REF: PBT/Omkareshwar

Sl.No	Item Description:	Unit of Measurement	HSN Code	Percentage of Weightage on Total price	Qty (1)	Quoted Currency in INR / Other Currency	CPT-Mumbai RATE In Figures To be entered by the Bidder in their quoted currency (Insurance in BHEL Scope)	TOTAL AMOUNT excluding taxes in bidder quoted currency
1a	Supply of Monocrystalline PV Module	KW		70-80%	1,35,625			
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	Evaluation shall be done on Cost to BHEL basis for complate package on- Cost to comapny-Omkareshwar site basis							

TOTAL PRICE IN WORDS (6) :

Price shall be firm till the completion of order execution.

DATE:
PLACE:

NOTE:

- These Conditions shall be read in conjunction with General Condition of Contract (GCC Rev R0) enclosed along with the tender enquiry. In case of any conflict or inconsistency, the requirement of SCC shall prevail over the GCC.
- As per the GOI directive, GeM procurement is mandatory. All bidders are requested to on-board on GeM Portal for their all products. Order shall be placed only after obtaining GeM Seller ID of the L1 bidder.
- Name of the unit has been changed to SOLAR BUSINESS DIVISION (SBD) from ELECTRIC & PHOTOVOLTAIC DIVISION (EPD) w.e.f. 09.10.2020.

1.	Type of Contract	Pre-bid tie-up.
2.	Item Details	Supply & Installation of Modules, Floaters, Anchoring & Mooring and AMC at 3x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP.
3.	Consignee Details (Ship To) [To be mentioned in LR/ Suppliers' Invoice etc.]	3x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP. Consignee address in LR and Invoice should be strictly as per above.
4.	Site Location	3x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP
5.	Buyer and Paying Authority	Bharat Heavy Electricals Limited Solar Business Division (Formerly known as Electric & Photovoltaic Division) Prof. C.N.R Rao Circle, Science Institute Post, Malleswaram Bengaluru-560 012
6.	Buyer e-mail ID	For Commercial clarifications: nagarajpk@bhel.in For Technical Clarifications: muhammedshakir@bhel.in
7.	Buyer IEC CODE/ GST No.	IEC CODE: 0588138690 / GST No: 29AAACB4146P1ZB
8.	Integrity Pact	APPLICABLE (As per attached Format) (a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

Sl No	IEM	EMAIL
1.	Shri. Arun Chandra Verma, IPS (Retd.)	acverma1@gmail.com
2.	Shri Virendra Bahadur Singh, IPS (Retd.)	vbsinghips@gmail.com

(Seal and Sign of the Bidder)

(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of Two/Three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note:
No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department.

For all clarifications/ issues related to the tender,

NAME	NAGARAJ P.K	MUHAMMED SHAKIR
DEPT	MM	MM
ADDRESS	BHEL SBD BENGALURU	BHEL SBD BENGALURU
PHONE	080-22182272	080-22182357
EMAIL	abc@bhel.in	def@bhel.in

9.	Price Basis	**For Supply:** FIRM, till completion of contract. FOR-Destination, inclusive of testing, inspection, packing & forwarding charges. Freight, taxes and duties to be paid in line with GCC & SCC. **For Installation & Commissioning (I&C) and Annual Maintenance Contract (AMC):** FIRM till completion of contract. Taxes and duties to be paid in line with GCC & SCC The total I&C and AMC quoted should be minimum XX% and YY% respectively of the total quoted price for supply, as detailed in Price Bid Format, failing which the break-up of prices shall be adjusted accordingly for ordering. All the other applicable taxes including Income taxes (TDS) as per prevailing Indian law shall be

(Seal and Sign of the Bidder)

		deducted from the payables & paid to Govt. by BHEL.
10.	Mode of Dispatch	By Rail/Road It is also the Seller/Contractor's responsibility to ensure material is dispatched through shortest possible route. Note: It is Seller/Contractor's responsibility to ensure availability of Trucks/Trains schedule etc. well in advance for dispatch of material to meet contractual delivery requirement. • Part shipment is allowed. • Transshipment is not allowed.
11.	Transit Insurance	In BHEL Scope. Insurance details shall be informed along with the NIT / Purchase Order. Prior Dispatch intimation shall be issued to Insurance Agency about the value of consignment, dispatch details, along with one set of documents consisting of LR copy, Packing List, Challan indicating the items dispatched (with their weights). A copy of above should be sent by email to the Insurance underwriter; and copy to the BHEL email IDs provided along with actual NIT/Purchase Order.
12.	Transportation	Material to be dispatched on freight pre-paid basis to the Consignee Address.
13.	Unloading at Site	In the scope of BHEL.
14.	Delivery Schedule	Delivery schedule shall be informed at the time of actual tender for procurement.
15.	Delivery Failure and Termination/ Liquidated Damages	Applicable as per Cl. No. 16 (Page 17 of 28) of GCC R0. Clause No. 16.2.1 of GCC to be read as:

(Seal and Sign of the Bidder)

		Purchaser reserves the right to recover from the Seller/Contractor, as agreed, liquidated damages and not by way of penalty, a sum equivalent to half (½) percent of undelivered portion per week or part thereof, subject to a maximum of ten (10) percent of the total contract price excluding elements of taxes, duties and freight, if the Seller/ Contractor fails to deliver any part of the ordered stores within the period stipulated in the Order/Contract. **NOTE**: 1. LR/RR date for indigenous supplies and AWB/ BL date for foreign supplies FOB/CIF/CIP/CFR/CPT shallbe treated as the date of delivery for levying LD as per Clause 16. 2. In case of any amendment/revision, LD shall be linked to the amended/revised contract value and delivery date(s). 3. If Order/ Contract involves two or more Units/ Sets/ Lots, then Liquidated Damages shall be for order/ contract value of the delayed Unit/ Set/ Lot, provided delivery stipulated in the Order/ Contract is Unit/ Set/ Lot wise, however total LD amount shall be limited to 10% of total order value. (excluding taxes, duties and freight)
16.	Payment Terms	**For Supply:** 1) 10%(Ten Percent) advance payment against submission of equivalent ABG will be released after placement of Purchase order and receipt of ABG. 65% (Sixty-five percent) of basic price of material supplied as per PO along with 100% of taxes,duties as applicable and freight charges shall be paid on prorata, within 60 days (MSE vendors will be paid within 45 days) from thereceipt of the lot and receipt of complete set of documents as per PO/ contract subject to the acceptance of the Lot. To claim this vendor must submit the (CPSG) for an amount equivalent to 3% of total value of PO (Initially valid for one year and shall be extended till commissioning is completed). CPSG to be submitted by OEM or OEM subsidiary company in India. CPSG is a MUST. 2) 20% (Twenty percentage) of basic price of material supplied as per PO shall be paid on prorata after installation of floater system for each 10 MW against certification of BHEL for satisfactory installation of float system and shall be paid within 60 days from the date of receipt of supplementary invoice with BHEL certificate. 3) Balance 5% (Five Percent) of basic price of material supplied as per PO shall be paid after completion of total commissioning of FSPV against certification of BHEL which will be paid with within 60 days

(Seal and Sign of the Bidder)

		from the date of receipt of supplementary invoice with BHEL certificate for satisfactory commissioning. 4) For Spares: 100% (one hundred percent) of basic price of material supplied as per PO along with 100% of taxes, duties as applicable and freight charges shall be paid within 60 days from the receipt of the lot and receipt of complete set of documents as per PO/ contract subject to the acceptance of the Lot.To claim this vendor must submit the (CPSG) for an amount equivalent to 3% of total value of PO (Initially valid for one year and shall be extended till commissioning is completed). CPSG to be submitted by OEM or OEM subsidiary company in India. CPSG is a MUST. **For I&C:** 5) 100% (One hundred percent) of basic price of material supplied as per PO + 100% of taxes will be paid within 60 days against submission of GST invoice and satisfactory work completion certificate from BHEL. **For AMC:** 6) 100% (One hundred percent) of basic price of material supplied as per PO + 100% of taxes will be paid against submission of certificate from BHEL.
17.	Documents to be Submitted by Seller/Contractor for Claiming Payment	**For Supply Package:** GST complaint Invoice (Original for Buyer + 1 Copy). Original Copy of receipted LR Original Material Receipt Certificate from BHEL site (MRC) Packing List - Shall Be in Line with PO Material Code and Clearly Showing Number of Packages, Gross Weight and Net Weight-(Original+3 Copies). Guarantee/Warranty Certificate Copy of Insurance Intimation [Sent by The Supplier to Insurer – as per cl. no. 8 above]. Material Dispatch Clearance Certificate by BHEL/Customer **For I&C and AMC Package:** GST complaint Invoice (Original for Buyer + 1 Copy). Original Work Completion Certificate from BHEL site (WCC) Guarantee/Warranty Certificate

(Seal and Sign of the Bidder)

18.	Guarantee/Warranty Certificate for Supply	(A) FOR SUPPLY: 10 YEARS FROM SUPPLY DATE (B) FOR I&C: 10 YEARS FROM I&C CERTIFICATION DATE
19.	CPSG (Contract Performance Security Guarantee)	Contract Performance cum Security Guarantee (CPSG) for an amount equivalent to **3% of total value of PO** (Initially valid for one year and shall be extended till commissioning is completed)
20.	Document Approval	BY BHEL/CUSTOMER
21.	Inspection Agency	BY BHEL/CUSTOMER
22.	Taxes and Duties	Clause No. 4.1 of GCC to be read as: 4.1 CGST/SGST/UTGST/IGST 4.1.1 The Seller/Contractor is required to ensure that CGST/SGST/UTGST/IGST (whichever is applicable) is quoted as per the existing tariff on the date of the offer and all benefits as per existing laws have been considered. 4.1.2 It is the responsibility of the Seller/Contractor to issue the Tax Invoice strictly as per the format prescribed under the relevant applicable GST law (CGST Act/SGST Act/UTGST Act/IGST Act). Seller/Contractor to indicate the proper GSTN Registration/ HSN code in their tax invoice. 4.1.3 The Purchaser is registered in the State of Karnataka vide following GST registration number: 29AAACB4146P1ZB. 4.1.4 The Seller/Contractor is required to mention the above registration number in their tax invoice unless stated otherwise in NIT/SCC. 4.1.5 CGST/SGST/UTGST/IGST shall be paid at actuals against Tax Invoice but restricted to the amount and percentage in the order/contract. 4.2 & 4.3 of GCC is not applicable.
23.	Other Taxes & Levies	Clause No. 4.4 of GCC to be read as: 4.4 Other Taxes & Levies All taxes/duties/Cess other than CGST/SGST/UTGST/IGST shall be deemed to be included in the Ex-Works prices unless specified otherwise by the bidder in the price bid. No variation in other taxes and duties shall be payable by Purchaser. Antidumping duty, if any, shall be in the account of bidder and shall be included in their price. No separate payment shall be made by BHEL for the

(Seal and Sign of the Bidder)

		same.
24.	Customs Duty	As Applicable on basis of project
25.	Direct Taxes	Clause No. 4.6 of GCC to be read as: 4.5 Direct Taxes 4.5.1 Purchaser shall not be liable towards income tax of whatever nature including variations thereof, arising out of this Order/ Contract, as well as tax liability of the Seller/Contractor and his personnel. 4.5.2 Deductions of Tax at source at the prevailing rates shall be effected by the Purchaser before release of payment, as a statutory obligation, if applicable. TDS certificate will be issued by the Purchaser as per statutory provisions.
26.	Statutory Variation	Clause No. 5.0 of GCC to be read as: 5.0 Statutory Variation 5.1 Statutory variation for CGST/SGST/UGST/IGST is available provided the actual completion of supply does not occur beyond the period stipulated in the order/contract or any extension (without levy of penalty). 5.2 For variation after the agreed completion periods, the Seller/Contractor alone shall bear the impact for the upwards revisions and adjust the price in their basic price in such a manner that total price with tax matches with the ex- works with taxes of Purchase Order/Contract. For downward revisions, purchaser shall be given the benefit of reduction in CGST/SGST/UGST/IGST. This will be without prejudice to the levy of penalty for delay in delivery/completion schedule. 5.3 No other variations such as on Custom Duty, exchange rate, minimum wages, prices of controlled commodities, any other input etc. shall be payable by the Purchaser.
27.	New Clause of GCC	9.7 Other clauses: 1. Seller/Contractor will intimate & upload the Tax invoice along with LR/RR (as applicable) on web portal & intimate BHEL immediately on removal of goods from Seller/Contractor works. In case of Services, Seller/Contractor is required to upload the Tax invoice on Web Portal immediately after raising the invoice. BHEL will issue the delivery order/instruction to dispatch the material to the customer as indicated in SCC. 2. All payments against Tax Invoice to the Seller/Contractor shall be released only after:

(Seal and Sign of the Bidder)

		a) Seller/Contractor declaring such invoice in GSTR-1 within theprescribed timeline as per the relevant Act. b) The tax component charged by the Seller/Contractor in the invoice should be matched with the details uploaded by Seller/Contractor in GSTR-1. c) Confirmation of payment of GST thereon by Seller/Contractor on GSTN portal 3. In case, any GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry to timeline prescribed in the relevant Act for availing such ITC, or any other reasons not attributable to BHEL, tax amount shall be recoverable from the Seller/Contractor along with interest levied/leviable on BHEL. Wherein GST liability arises on BHEL under reverse charge, any interest levied/leviable due to any reasons not attributable to BHEL shall berecovered from the Seller/Contractor.
28.	New Clauses of GCC	a) In case of discrepancy in CGST/SGST/UTGST/IGST rate corresponding to HSN; code and quotes rates, the evaluation shall be done on quoted price and correct CGST/SGST/UTGST/IGST rate shall be considered for ordering (limited to quoted FOR Site Price) b) The bidder should have been registered with the appropriate authority under relevant GST laws. c) The bidder to specify in their offer (part 1 bid) the category of registration under GST i.e. registered dealer and composite dealer d) No CGST/SGST/UTGST/IGST will be reimbursed to composite dealer. In the event of any GST quoted by composite dealer, the same shall be considered for evaluation purpose. However, the ordering will be done without considering the tax. e) In the event of any change in the status of Seller/Contractor from composite to regular dealer after the submission of the bid but before the supply, no reimbursement of CGST/SGST/UTGST/IGST will be made. However, the Seller/Contractor has to raise the invoice strictly, as per the law, by adjustingtheir ex-works price.
29.	New Clauses of GCC	Delivery Challans & Invoices /Service Entry Sheet in the format as specified under GST laws mentioning your GSTIN No, item HSN/SAC No should accompany supply. 1. GST portion of invoice shall be released only upon Seller/Contractor declaring such invoice in his GSTR-1 return and receipt of goods/services and tax and confirmation of payment of GST thereon by Seller/Contractor on GSTN Portal. 2. Bank Guarantee of appropriate value may be obtained from Seller/Contractor which shall be valid at least one month after the confirmation of payment date by Seller/Contractor on GST portal and receipt of Tax invoice and receipt of goods, whichever is later. [if (a) above could not be complied].

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		3. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from Seller/Contractor along with interest levied/BG of appropriate value may be obtained from Seller/Contractor alternatively payment covering GST portion including interest thereon shall be release to Seller/Contractor only upon completion of these requirements. In case Seller/Contractor delays declaring such invoice in his return & GST credit by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST Law shall be recoverable from the Seller/Contractor along with interest levied/leviable to be obtained from Seller/Contractor alternatively payment covering GST portion including interest thereon shall be released to Seller/Contractor only upon completion of these requirements.
30.	e-Invoicing under GST	E-invoicing under GST is being implemented w.e.f 1st April 2022 for all the taxable person having turnover more than Rs. 20 Crore. It has been specified by the Government that it is mandatory to mention a valid unique Invoice Reference Number (IRN) and QR code as generated from Government portal on a Tax Invoice. Based on such information, GST ITC as claimed by BHEL in GST Returns shall be matched with the corresponding details uploaded by supplied in e-Invoicing System. In case the vendor delays or fails to provide all the documents as per the Purchase Order at the time of submitting Tax Invoice to BHEL, any subsequent financial loss to BHEL on account of vendor shall be to vendor's account. BHEL has further right to take necessary steps to protect its interest at the time of release of payment.
31.	Tax Collected at Source (TCS)	Not applicable
32.	Risk & Cost Clause	Risk & Cost Clause, in line with Conditions of Contract may be invoked in any of the following cases: • Seller/Contractor's poor progress of the work vis-à-vis execution timeline as stipulated in the Contract, backlog attributable to Contractor/ Supplier including unexecuted portion of work/ supply does not appear to be executable within balance available period (#) considering its performance of execution. • Withdrawal from or abandonment of the work by contractor before completion of the work as per contract. • Non completion of work/ Non-supply by the Contractor/ Supplier within scheduled completion/delivery period as per Contract or as extended from time to time, for the reasons

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attributable to the Contractor/ Supplier.

- Termination of Contract on account of any other reason (s) attributable to Contractor/ Supplier.
- Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.
- Non-compliance to any contractual condition or any other default attributable to Contractor/ Supplier.

Risk & Cost:

Risk and Cost against Balance Work:

Risk & Cost Amount= [(A-B) + (A x H/100)]
Where,
A= Value of Balance scope of Work/ Supply (*) as per rates of new contract
B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the Contractor/ Supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any.
H = Overhead Factor to be taken as 5
In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).
*(Balance scope of work/ supply)

Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work/ Supply for calculating risk & cost amount.

Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.

Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities.

Substitute/ extra items whose rates have already been approved would form part of contract quantities for this purpose. Substitute/ extra items which have been executed but rates have not been approved,

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		would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions. However, increase in quantities on account of additional scope in new tender shall not be considered for this purpose. Note: Incase portion of work is being withdrawn, contract quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work/supply' for calculating Risk & Cost amount. LD against delay in executed work/supply in case of Termination of Contract LD against delay in executed work/supply shall be calculated in line with LD clause of the contract for the delay attributable to Contractor/ Supplier. For this purpose, contract value shall be taken as Executed Value of 30work/supply for the purpose of limiting maximum LD value. Method for calculation of "LD against delay in executed work/supply" is given below. 1. Let the time period from scheduled date of start of work till termination of contract excluding the period of Hold (if any) not attributable to Contractor/ Supplier= T1 2. Let the value of executed work/supply till the time of termination of contract= X 3. Let the Total Executable Value of work/supply for which inputs/fronts were made available to Contractor/ Supplier and were planned for execution till termination of contract = Y 4. Delay in executed work/supply attributable to Contractor/Supplier i.e. T2=(1-X/Y) x T1 5. LD shall be calculated in line with LD clause of the Contract for the delay attributable to Contractor/ Supplier taking "X" as Contract Value and "T2" as delay attributable to Contractor/ Supplier. Note: Incase portion of work/supply is withdrawn; no LD shall be applicable for portion of work/supply withdrawn.
33.	Preference to Make in India	This Tender is governed by Circular No. P-45021/2/2017-B.E.-II dated 15.06.2017, 28.05.2018, 29.05.2019 & 04.06.2020 issued by Govt. of India. "For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019 , 04.06.2020, 16.09.2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/ POI WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement,same shall be applicable."

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		Preference to Make in India including counter offering will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following links: https://dipp.gov.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf https://dipp.gov.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf https://dipp.gov.in/sites/default/files/PPP-MII%20Order%20dt%2029th%20May%2019_0.pdf https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204th%20June%202020.pdf https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%2016%2009%202020.pdf Certification (as applicable) giving the percentage of local content, in line with PPP-MII order, to be submitted as per attached Annexure-1(A) for procurement value from Rs. 5.00 Lac to Rs. 10.00 Crore or Annexure-1(B) for procurement value more than Rs. 10.00 Crore.
34.	Provisions Applicable for MSE (Micro and Small Enterprises) Vendors	**PROVISONS APPLICABLE FOR MSE VENDORS (MICRO AND SMALL ENTERPRISES)** Benefits/facilities as applicable for Micro and Small Enterprises (MSEs) shall be available to MSE vendors registered with Government Designated Authorities as per the Purchase & Price Preference Policy of the Government subject to them becoming eligible otherwise. Vendors who qualify as MSE vendors are requested to submit applicable certificates (as specified by the Ministry of Micro, Small and Medium Enterprises) at the time of vendor registration. Vendors have to submit the UDYAM Registration Certificate with the tender documents in the Part-I Bid to avail the applicable benefits. Date to be reckoned for determining the deemed validity will be the date of bid opening (Part-I in case of two-part bid and three-part bid). Documents have to be notarized/attested by a Gazetted officer and must be valid as on the date of Part-I Bid opening for the vendors to be eligible for the benefits applicable for MSE vendors. Please note that no benefit shall be applicable if any deficiency in the above required documents are not submitted before the Price Bid Opening / Reverse Auction.

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		If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Bidders to however note the documents that shall be furnished in order to establish credentials as MSE vendor should be as per the extant statutory requirements specified by the Ministry of Micro, Small and Medium Enterprises (MSME). **PURCHASE PREFERENCE FOR MSE VENDORS:** **(For Items which are divisible in nature)** MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 25% of the requirement against this tender provided: 1. The MSE vendor matches the L1 price. 2. L1 price is from a non MSE vendor. 3. L1 price will be offered to the vendor nearest to L1 in terms of price ranking (L2 – nearest to L1). In case of non-acceptance by the MSE vendor (L2), next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band). 4. 3% of the 25% will be earmarked for women owned MSEs. 5. 25% of the 25% (i.e., 6.25% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) & (2) are fulfilled. 6. In case where no SC/ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, the 6.25% of earmarked quantity for SC/ST owned MSE firms will be distributed among the other eligible MSE vendors who have participated in the tender. **(For Items which are not divisible in nature)** MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 100% of the requirement against this tender provided: 1. The MSE vendor matches the L1 price. 2. L1 price is from a non MSE vendor. 3. L1 price will be offered to the vendor nearest to L1 in terms of price ranking (L2 – nearest to L1). In case of non-acceptance by the MSE vendor (L2), next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).

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		4. No distribution shall be done specifically to women owned MSEs or SC/ST owned MSEs in such cases. **Documents to be submitted for claiming MSE status and intended benefits:** Option 1 (valid till 31.03.2021): Submission of Udyog Aadhar Memorandum along with CA certificate as per Annexure-2(A). Option 2: Submission of Udyam Registration Certificate along with CA certificate as per Annexure-2(B).
35.	Purchase from SEZ in India	Purchase from SEZ in India shall be considered as Indigenous purchase for the purpose of Purchase Preference to Make in India Policy, Price Basis, Payment term & delivery terms. However, additional taxes, duties including Safe Guard Duty if any shall be considered while evaluating the bid.
36.	Relaxation in Public Procurement Norms for Startups	For all public procurement, the criteria of prior turnover and prior experience for all Startups is relaxed subject to their meeting of quality and technical specifications. DPIIT (Department for Promotion of Industry and Internal Trade) Certificate of Recognition for Startups to be submitted for availing benefits.
37.	Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017	I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not failing in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process. III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: 1. An entity Incorporated, established or registered in such a country; or 2. A subsidiary of an entity Incorporated, established or registered in such a country; or 3. An entity substantially controlled through entitles incorporated, established or registered in such a country; or 4. An entity whose beneficial owner is situated in such a country, or 5. An Indian (or other) agent of such an entity; or 6. A natural person who is a citizen of such a country; or 7. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

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		IV. The beneficial *owner* for the purpose of (iii) above will be as under: 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means. Explanation- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company; b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements; 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership; 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of Individuals; 4. Where no natural person is Identified under (1) or (2) or (3) above the beneficial owner is the relevant natural person who holds the position of senior managing official; 5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership. V. An Agent is a person employed to do any act for another or to represent another in dealings with third person. VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. * The above clause is not applicable to the bidders from those countries (even if sharing a land border with India) to which the GoI has extended lines of credit or in which the GoI is engaged in development projects. * List of countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (https://www.mea.gov.in/)

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		Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017 to be submitted on the bidder's letterhead as per Annexure-3(A) or Annexure-3(B) – as applicable.
38.	Compliance to order No. 25-111612018-PG, Dated 02.07.2020 of Ministry of Power, GOI	Applicable
39.	Reverse Auction	"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."
40.	Quantity Splitting	Not Applicable
41.	Quantity Variation	Applicable as per GCC
42.	Evaluation	The evaluation currency for this tender shall be INR. Evaluation will be done on overall package (Supply+ Installation+ commissioning) L1 basis as per cl no 19.0 of GCC (Instructions to Bidder). Any new taxes/ duties structure as and when implemented by the Government shall become applicable & evaluation shall be done based on the new taxes/ duties structure.
43.	Change of Scope	In case of changes in scope of the tender and/ or technical specifications and commercial terms & conditions by BHEL during techno commercial evaluation and before Price bid Opening, the same will be communicated only to the bidders who have participated in the tender. The techno-commercially qualified bidders shall be asked to submit Impact Price bid, as applicable.
44.	Declaration by bidder regarding protection of commercial interests of BHEL	The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

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45.	Organization Chart	The bidder shall submit the overall organization chart along with contact details/mobile no. of officials dealing with this contract package for Engineering, Quality, Supply, etc. immediately after receipt of Purchase Order.
46.	Offer Validity	Offer Validity shall be 180 Calendar days from the date of opening of Technical bid.
47.	Note	1. In place of EPD, Bangalore, it may be read as SBD Bangalore. 2. Any vendor who has been banned by BHEL or against whom action due to non-performance has been initiated by BHEL are not eligible for participation. Such offers will not be considered for evaluation and will be rejected. 3. Bidders shall confirm acceptance of technical specification which is part of the tender document (If Applicable). Any deviation from technical specification can be rejected at BHEL's discretion. Not applicable to this tender.
50.	Declaration by bidder regarding protection of commercial interests of BHEL	The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.
51	Bid security Bond (To be submitted by the successful bidders only)	1% of the bid value within 30 days of signing MOU shall be submitted in the form of bank Guarantee or security deposit..
52	Price quoted in PBT	i. The price quoted by the Contractor(s) will be discussed, negotiated and finalized by BHEL before their submission of BID to CUSTOMER. ii. Any further price discounts, to be given to customer by BHEL to secure the order, will be shared by BHEL and the Contractor(s) pro-rata for their scope of work after mutual discussion & consent.

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MODEL CONCILIATION CLAUSE FOR CONDUCTING CONCILIATION PROCEEDINGS UNDER THE BHEL CONCILIATION SCHEME, 2018

The Parties agree that if at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation, effect, interpretation or breach of the agreement, contract or the Memorandum of Understanding (delete whichever is inapplicable), which the Parties are unable to settle mutually), arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted through Independent Experts Committee to be appointed by competent authority of BHEL from the BHEL Panel of Conciliators.

Notes:

1. No serving or a retired employee of BHEL/Administrative Ministry of BHEL shall be included in the BHEL Panel of Conciliators.

2. Any other person(s) can be appointed as Conciliator(s) who is/are mutually agreeable to both the parties from outside the BHEL Panel of Conciliators.

The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in Annexure--**'A'**-- to this GCC/Agreement/Contract/MoU etc. (strike off whichever is inapplicable).

The Annexure -**'A'**-- together with it's Formats will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this GCC/Agreement/Contract/MoU etc., (strike off whichever is inapplicable).

The Purchaser/Contractor/Seller etc. (insert the description of the other party to the Agreement/Contract/MoU etc., - whichever is applicable) agrees that the Purchaser/Contractor/Seller etc. (insert the description of BHEL - whichever is applicable) may make any amendments or modifications to the provisions stipulated in the Annexure --**'A'**--to this GCC/Agreement/Contract/MoU etc., (strike off whichever is inapplicable) from time to time and confirms that it shall be bound by such amended or modified provisions of the Annexure ---**'A'**---with effect from the date as intimated by BHEL to it.

Annexure----'A'

ANNEXURE TO MODEL CONCILIATION CLAUSE FOR CONDUCT OF CONCILIATION UNDER THE BHEL CONCILIATION SCHEME, 2018

BRIEF PROCEDURE FOR CONDUCT OF CONCILIATION PROCEEDINGS

1. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided herein:

2. The party desirous of resorting to Conciliation shall send an invitation/notice in writing to the other party to conciliate specifying all points of Disputes with details of the amount claimed. The party concerned shall not raise any new issue thereafter. Parties shall also not claim any interest on claims/counter-claims from the date of notice invoking Conciliation till the conclusion of the Conciliation proceedings. If BHEL is to initiate Conciliation, then, the invitation to Conciliate shall be extended to the concerned Stakeholder in **Format 7** hereto. Where the stakeholder is to initiate the Conciliation, the notice for initiation of Conciliation shall be sent in **Format-8** hereto.

3. The party receiving the invitation/notice for Conciliation shall within 30 days of receipt of the notice of Conciliation intimate its consent for Conciliation along with its counter-claims, if any.

4. The Conciliation in a matter involving claim or counter-claim (whichever is higher) up to Rs 5 crores shall be carried out by sole Conciliator nominated by BHEL while in a matter involving claim or counter-claim (whichever is higher) of more than Rs 5 crores Conciliation shall be carried out by 3 Conciliators nominated by BHEL. The appointment of Conciliator(s) shall be completed and communicated by the concerned Department/Group of BHEL Unit/Division/Region/Business Group to the other party and the Conciliator(s) within 30 days from the date of acceptance of the invitation to conciliate by the concerned party in the **Format-9**. The details of the Claim, and counter-claim, if any, shall be intimated to the Conciliator(s) simultaneously in **Format-5**.

5. The Parties shall be represented by only their duly authorized in-house executives/officers and neither Party shall be represented by a Lawyer.

6. The first meeting of the IEC shall be convened by the IEC by sending appropriate communication/notice to both the parties as soon as possible but not later than 30 days from the date of his/their appointment. The hearings in the Conciliation proceeding shall ordinarily be concluded within two (2) months and, in exceptional cases where parties have expressed willingness to settle the matter or there exists possibility of settlement in the matter, the

proceedings may be extended by the IEC by a maximum of further 2 months with the consent of the Parties subject to cogent reasons being recorded in writing.

7. The IEC shall thereafter formulate recommendations for settlement of the Disputes supported by reasons at the earliest but in any case within 15 days from the date of conclusion of the last hearing. The recommendations so formulated along with the reasons shall be furnished by the IEC to both the Parties at the earliest but in any case within 1 month from the date of conclusion of the last hearing.

8. Response/modifications/suggestions of the Parties on the recommendations of the IEC are to be submitted to the IEC within time limit stipulated by the IEC but not more than 15 days from the date of receipt of the recommendations from the IEC.

9. In the event, upon consideration, further review of the recommendations is considered necessary, whether by BHEL or by the other Party, then, the matter can be remitted back to the IEC with request to reconsider the same in light of the issues projected by either/both the Parties and to submit its recommendations thereon within the following 15 days from the date of remitting of the case by either of the Parties.

10. Upon the recommendations by the Parties, with or without modifications, as considered necessary, the IEC shall be called upon to draw up the Draft Settlement Agreement in terms of the recommendations.

11. When a consensus can be arrived at between the parties only in regard to any one or some of the issues referred for Conciliation the draft Settlement Agreement shall be accordingly formulated in regard to the said Issue(s), and the said Settlement Agreement, if signed, by the parties, shall be valid only for the said issues. As regards the balance issues not settled, the parties may seek to resolve them further as per terms and conditions provided in the contract.

12. In case no settlement can be reached between the parties, the IEC shall by a written declaration, pronounce that the Conciliation between the parties has failed and is accordingly terminated.

13. Unless the Conciliation proceedings are terminated in terms of para 22 (b), (c) & (d) herein below, the IEC shall forward his/its recommendations as to possible terms of settlement within one (1) month from the date of last hearing. The date of first hearing of Conciliation shall be the starting date for calculating the period of 2 months.

14. In case of 3 members IEC, 2 members of IEC present will constitute a valid quorum for IEC and meeting can take place to proceed in the matter after seeking consent from the member who is not available. If necessary, videoconferencing may be arranged for facilitating participation of the members. However, the IEC recommendations will be signed by all members. Where there is more than one (1) Conciliator, as a general rule they shall act jointly. In the event of differences between the Members of IEC, the decision/recommendations of the majority of the Members of IEC shall prevail and be construed as the recommendation of the IEC.

15. The Draft Settlement Agreement prepared by the IEC in terms of the consensus arrived at during the Conciliation proceedings between the Parties shall be given by the IEC to both the parties for putting up for approval of their respective Competent Authority.

16. Before submitting the draft settlement agreement to BHEL's Competent Authority viz. the Board Level Committee on Alternative Dispute Resolution (BLCADR) for approval, concurrence of the other party's Competent Authority to the draft settlement agreement shall be obtained by the other party and informed to BHEL within 15 days of receipt of the final draft settlement agreement by it. Upon approval by the Competent Authority, the Settlement Agreement would thereafter be signed by the authorized representatives of both the Parties and authenticated by the members of the IEC.

17. In case the Draft Settlement Agreement is rejected by the Competent Authority of BHEL or the other Party, the Conciliation proceedings would stand terminated.

18. A Settlement Agreement shall contain a statement to the effect that each of the person(s) signing thereto (i) is fully authorized by the respective Party(ies) he/she represents, (ii) has fully understood the contents of the same and (iii) is signing on the same out of complete freewill and consent, without any pressure, undue influence.

19. The Settlement Agreement shall thereafter have the same legal status and effect as an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal passed under section 30 of the Arbitration and Conciliation Act, 1996.

20. Acceptance of the Draft Settlement Agreement/recommendations of the Conciliator and/or signing of the Settlement Agreement by BHEL shall however, be subject to withdrawal/closure of any arbitral and/or judicial proceedings initiated by the concerned Party in regard to such settled issues.

21. Unless otherwise provided for in the agreement, contract or the Memorandum of Understanding, as the case may be, in the event of likelihood of prolonged absence of the Conciliator or any member of IEC, for any reason/incapacity, the Competent Authority/Head of Unit/Division/Region/Business Group of BHEL may substitute the Conciliator or such member at any stage of the proceedings. Upon appointment of the substitute Conciliator(s), such reconstituted IEC may, with the consent of the Parties, proceed with further Conciliation into the matter either de-novo or from the stage already reached by the previous IEC before the substitution.

22. The proceedings of Conciliation under this Scheme may be terminated as follows:

a. On the date of signing of the Settlement agreement by the Parties; or,

b. By a written declaration of the IEC, after consultation with the parties, to the effect that further efforts at conciliation are no longer justified, on the date of the declaration; or,

c. By a written declaration of the Parties addressed to the IEC to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,

d. By a written declaration of a Party to the other Party and the IEC, if appointed, to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,

e. On rejection of the Draft Settlement Agreement by the Competent Authority of BHEL or the other Party.

23. The Conciliator(s) shall be entitled to following fees and facilities:

Sl No	**Particulars**	**Amount**
1	Sitting fees	Each Member shall be paid a Lump Sum fee of Rs 75,000/- for the whole case payable in terms of paragraph No. 27 herein below.
2	Towards drafting of settlement agreement	In cases involving claim and/or counter-claim of up to Rs 5crores. Rs 50,000/- (Sole Conciliator) In cases involving claim and/or counter-claim of exceeding Rs 5 crores but less than Rs 10 crores.

Sl No	Particulars	Amount
		Rs 75,000 (per Conciliator) In cases involving claim and/or counter-claim of more than Rs 10 crores. Rs 1,00,000/- (per Conciliator) Note: The aforesaid fees for the drafting of the Settlement Agreement shall be paid on the, Signing of the Settlement Agreement after approval of the Competent Authority or Rejection of the proposed Settlement Agreement by the Competent Authority of BHEL.
3	Secretarial expenses	Rs 10,000/- (one time) for the whole case for Conciliation by a Sole Member IEC. Where Conciliation is by multi member Conciliators –Rs 30,000/- (one time)- to be paid to the IEC
4	Travel and transportation and stay at outstation Retired Senior Officials of other Public Sector Undertakings (pay scale wise equivalent to or more than E-8 level of BHEL)	As per entitlement of the equivalent officer (pay scale wise) in BHEL.
	Others	As per the extant entitlement of whole time Functional Directors in BHEL. Ordinarily, the IEC Member(s) would be entitled to travel by air Economy Class.
5	Venue for meeting	Unless otherwise agreed in the agreement, contract or the Memorandum of Understanding, as the case may be, the venue/seat of proceedings shall be the location of the

Sl No	Particulars	Amount
		concerned Unit / Division / Region / Business Group of BHEL. Without prejudice to the seat/venue of the Conciliation being at the location of concerned BHEL Unit / Division / Region / Business Group, the IEC after consulting the Parties may decide to hold the proceedings at any other place/venue to facilitate the proceedings. Unless, Parties agree to conduct Conciliation at BHEL premises, the venue is to be arranged by either Party alternately.

24. The parties will bear their own costs including cost of presenting their cases/evidence/witness(es)/expert(s) on their behalf. The parties agree to rely upon documentary evidence in support of their claims and not to bring any oral evidence in IEC proceedings.

25. If any witness(es) or expert(s) is/are, with the consent of the parties, called upon to appear at the instance of the IEC in connection with the matter, then, the costs towards such witness(es)/expert(s) shall be determined by the IEC with the consent of the Parties and the cost so determined shall be borne equally by the Parties.

26. The other expenditures/costs in connection with the Conciliation proceedings as well as the IEC's fees and expenses shall be shared by the Parties equally.

27. Out of the lump sum fees of Rs 75,000/- for Sitting Fees, 50% shall be payable after the first meeting of the IEC and the remaining 50% of the Sitting Fees shall be payable only after termination of the conciliation proceedings in terms of para 22 hereinabove.

28. The travelling, transportation and stay at outstation shall be arranged by concerned Unit as per entitlements as per Serial No. 4 of the Table at para 23 above, and in case such arrangements are not made by the BHEL Unit, the same shall be reimbursed to the IEC on actuals limited to their entitlement as per Serial No. 4 of the Table at Para 23 above against supporting documents. The IEC Member(s) shall submit necessary invoice for claiming the fees/reimbursements.

29. The Parties shall keep confidential all matters relating to the conciliation proceedings. Confidentiality shall extend also to the settlement agreement, except where its disclosure is necessary for purposes of its implementation and enforcement or as required by or under a law or as per directions of a Court/Governmental authority/ regulatory body, as the case may be.

30. The Parties shall not rely upon or introduce as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the Disputes that is the subject of the Conciliation proceedings:

a. Views expressed or suggestions made by the other party in respect of a possible settlement of the Disputes;

b. admissions made by the other party in the course of the Conciliator proceedings;

c. proposals made by the Conciliator;

d. The fact that the other Party had indicated his willingness to accept a proposal for settlement made by the Conciliator.

31. The Parties shall not present the Conciliator(s) as witness in any Alternative Dispute Resolution or Judicial proceedings in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.

32. None of the Conciliators shall act as an arbitrator or as a representative or counsel of a Party in any arbitral or judicial proceeding in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.

33. The Parties shall not initiate, during the Conciliation proceedings, any arbitral or judicial proceedings in respect of a Disputes that is the subject matter of the Conciliation proceedings except that a Party may initiate arbitral or judicial proceedings where, in his opinion, such proceedings are necessary for preserving his rights including for preventing expiry of period of limitation. Unless terminated as per the provisions of this Scheme, the Conciliation proceedings shall continue notwithstanding the commencement of the arbitral or judicial proceedings and the arbitral or judicial proceedings shall be primarily for the purpose of preserving rights including preventing expiry of period of limitation.

34. The official language of Conciliation proceedings under this Scheme shall be English unless the Parties agree to some other language.

Format 5 to BHEL Conciliation Scheme, 2018

STATEMENT OF CLAIMS/COUNTER CLAIMS TO BE SUBMITTED TO THE IEC BY BOTH THE PARTIES

1. Chronology of the Disputes

2. Brief of the Contract/MoU/Agreement/LOI/LOA

3. Brief history of the Disputes:

4. Issues:

5. Details of Clam(s)/Counter Claim(s):

SI. No.	**Description of claim(s)/Counter Claim**	**Amount (in INR)Or currency applicable in the contract**	**Relevant contract clause**

6. Basis/Ground of claim(s)/counter claim(s) (along with relevant clause of contract)

Note– *The Statement of Claims/Counter Claims may ideally be restricted to maximum limit of 20 pages. Relevant documents may be compiled and submitted along with the statement of Claims/Counter Claims. The statement of Claims/Counter Claims is to be submitted to all IEC members and to the other party by post as well as by email.*

FORMAT-7

FORMAT FOR NOTICE INVOKING CONCILIATION CLAUSE BY BHEL FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,

M/s. (Stakeholder's name)

Subject: **NOTICE FOR INVOCATION OF THE CONCILIATION CLAUSE OF THE CONTRACT BY BHEL**

Ref: Contract No/MoU/Agreement/LOI/LOA& date _____.

Dear Sir/Madam,

As you are aware, with reference to above referred Contract/MoU/Agreement/LOI/LOA, certain disputes have arisen, which, in-spite of several rounds of mutual discussions and various correspondences have remained unresolved. The brief particulars of our claims which arise out of the above- referred Contract/MoU/Agreement/LOI/LOA are reproduced hereunder:

Sl. No.	Claim description	Amount involved

As you are aware, there is a provision in the captioned Contract/MoU/Agreement/LOI/ LOA for referring disputes to conciliation.

In terms of Clause ---------of Procedure i.e., Annexure ------ to the Contract/MoU /Agreement / LOI / LOA, we hereby seek your consent to refer the matter to Conciliation by Independent Experts Committee to be appointed by BHEL. You are invited to provide your consent in writing to proceed with conciliation into the above mentioned disputes within a period of 30 days from the date of this letter along with details of counter-claims, if any, which you might have with regard to the subject Contract/ MoU/ Agreement/ LOI/ LOA.

Please note that upon receipt of your consent in writing within 30 days of the date of receipt of this letter by you, BHEL shall appoint suitable person(s) from the BHEL Panel of Conciliators.

This letter is being issued without prejudice to our rights and contentions available under the contract and law.

Thanking you
Yours faithfully

Representative of BHEL

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.

FORMAT-8

FORMAT FOR NOTICE INVOKING CONCILIATION CLAUSE BY A STAKEHOLDER FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,
BHEL (Head of the Unit/Division/Region/Business Group)

Subject: **NOTICE FOR INVOCATION OF THE CONCILIATION CLAUSE OF THE CONTRACT BY A STAKEHOLDER**

Ref: Contract No/MoU/Agreement/LOI/LOA& date _____.

Dear Sir/Madam,

As you are aware, with reference to above referred Contract/MoU/Agreement/LOI/LOA, certain disputes have arisen, which, in-spite of several rounds of mutual discussions and various correspondences have remained unresolved. The brief particulars of our claims which have arisen out of the above-referred Contract/MoU/Agreement/LOI/LOA are enumerated hereunder:

Sl. No.	Claim description	Amount involved

As you are aware, there is a provision in the captioned Contract/MoU/Agreement/LOI/ LOA for referring inter-se disputes of the Parties to conciliation.

We wish to refer the above-said disputes to Conciliation as per the said Clause of the captioned Contract/MoU/Agreement/LOI/ LOA. In terms of Clause ---------of Procedure i.e., Annexure ------ to the Contract/MoU /Agreement / LOI / LOA, we hereby invite BHEL to provide its consent in writing to proceed with conciliation into the above mentioned disputes within a period of 30 days from the date of this letter along with details of counter-claims, if any, which it might have with regard to the subject Contract/ MoU/ Agreement/ LOI/ LOA and to appoint suitable person(s) as Conciliator(s) from the BHEL Panel of Conciliators.

This letter is being issued without prejudice to our rights and contentions available under the contract and law.

Thanking you
Yours faithfully

Representative of the Stakeholder

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.

FORMAT-9

FORMAT FOR INTIMATION TO THE STAKEHOLDER ABOUT APPOINTMENT OF CONCILIATOR/IEC

To,

M/s. (Stakeholder's name)

Subject: **INTIMATION BY BHEL TO THE STAKEHOLDER AND CONCILIATOR(S) ABOUT APPOINTMENT OF CONCILIATOR/IEC**

Ref: Contract No/MoU/Agreement/LOI/LOA& date _____.

Sir,

This is with reference to letter dated ---------- regarding reference of the disputes arising in connection with the subject Contract No /MoU/Agreement/LOI/LOA to conciliation and appointment of Conciliator(s).

In pursuance of the said letter, the said disputes are assigned to conciliation and the following persons are nominated as Conciliator(s) for conciliating and assisting the Parties to amicably resolve the disputes in terms of the Arbitration & Conciliation Act, 1996 and the Procedure ---- to the subject Contract ...../MoU/Agreement/LOI/LOA, if possible.

Name and contact details of Conciliator(s)

a) .....

b) .....

c) .....

You are requested to submit the Statement of Claims or Counter-Claims (strike off whichever is inapplicable) before the Conciliator(s) in Format 5 (enclosed herewith) as per the time limit as prescribed by the Conciliator(s).

Yours faithfully,

Representative of BHEL

CC: To Conciliator(s)... for Kind Information please.
Encl: As above

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.

Annexure-D (i)

(Compliance to be submitted in the bidder's letter head)
(as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

Item Name :	
Enquiry No. :	
Project :	

We M/s._____ (name of the bidder company) have read the clauses pertaining to Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.

We hereby certify that **we are not from such a country** and eligible to be considered for this tender.

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of authorized representative of the bidder)

Annexure-D (ii)

(Compliance to be submitted in the bidder's letter head)
(as applicable)

Sub: **Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017**

Item Name :	
Enquiry No. :	
Project :	

We M/s._____ (name of the bidder company) have read the clauses pertaining to Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.

We are from such a country which shares a land border with India & have been registered with the Competent Authority as specified in above said order. We hereby certify that we fulfil all requirements in this regard and are eligible to be considered.
Evidence of valid registration by the Competent Authority is attached.

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of authorized representative of the bidder)

Annexure-E

(Compliance to be submitted in the bidder's letter head)

Sub: Compliance to order No. 25-111612018-PG, Dated 02.07.2020 of Ministry of Power, GOI

Item Name :	
Enquiry No. :	
Project :	

This is to certify that all equipment, components, and parts imported for use in the Power Supply System and Network are in strict compliance to directions issued by Ministry of Power, Govt. of India vide order No. 25-111612018-PG dated 02.07.2020. The imported component(s), part or assembly item(s) does not carry any malware/Trojan etc.

Note: Non-compliance of MoP Order and its subsequent amendment(s), (if any), by vendor shall lead to rejection of their offer or cancellation of contract, which is awarded by BHEL.

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of authorized representative of the bidder)

Annexure-F (i)

FORMAT FOR VERIFICATION OF LOCAL CONTENT UNDER PREFERENCE TO MAKE IN INDIA ORDER

(To be submitted with the offer)

[Applicable for procurement value from Rs. 5.00 Lac to Rs. 10.00 Crore]

Self-certification giving the percentage of local content, in line with PPP-MII order, if applicable *[to be submitted on the letter head of the issuer.]*

Item Name :	
Enquiry No. :	
Project :	
Applicable percentage of Local Content	**(Bidder to indicate local content in percentage)**

We have read and understood the provisions of "Public Procurement (Preference to Make in India) Order, 2017" dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any [hereinafter, "PPP-MII Order"] issued by Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India.

In line with the provisions of the PPP-MII Order, We, M/s. …… *[Enter the name of the Bidder] [*hereinafter, "Local Supplier"*]* submits self-certification to M/s. Bharat Heavy Electricals Limited [hereinafter, BHEL] regarding Local Content in Goods/Services/Works to be supplied by the Local Supplier for …… *(Enter the name of the Equipment/Item for Project)*, wherein we have agreed to abide by the terms and conditions of the PPP-MII Order.

Details of location at which local value addition will be made is as follows:

_____

_____

_____

_____

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

For and on behalf of, Date:

Authorized Signatory
(With Company Seal & Signature)

Note: This is a guiding format. In case the bidder submits the certificate in a format different from the above, the same may be considered provided it meets the intent and purpose, as may be ascertained by BHEL.

Annexure-F (ii)

FORMAT FOR VERIFICATION OF LOCAL CONTENT UNDER PREFERENCE TO MAKE IN INDIA ORDER

(To be submitted with the offer)

[Applicable for procurement value more than Rs. 10.00 Crore]

Certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of Local Content, in line with PPP-MII order, if applicable *[to be submitted on the letter head of the issuer.]*

Item Name :	
Enquiry No. :	
Project :	
Applicable percentage of Local Content	**(Bidder to indicate local content in percentage)**

We have read and understood the provisions of "Public Procurement (Preference to Make in India) Order, 2017" dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any [hereinafter, "PPP-MII Order"] issued by Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India.

In line with the provisions of the PPP-MII Order, We, M/s. …… *[Enter the name of the Bidder] [*hereinafter, "Local Supplier"*]* submits self-certification to M/s. Bharat Heavy Electricals Limited [hereinafter, BHEL] regarding Local Content in Goods/Services/Works to be supplied by the Local Supplier for …… *(Enter the name of the Equipment/Item for Project)*, wherein we have agreed to abide by the terms and conditions of the PPP-MII Order.

Details of location at which local value addition will be made is as follows:

_____

_____

_____

_____

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

For and on behalf of, Date:

Authorized Signatory
(With Company Seal & Signature)

We, the Statutory Auditor(s) / Cost auditor (applicable in the case of companies) of the Local Supplier / a practicing cost accountant or practicing chartered accountant (applicable in respect of suppliers other than companies), certify that the Local Content as defined under the PPP-MII, in the Goods/Service/Works to be supplied by the Local Supplier for …… (Enter the name of the Equipment/Item for Project). is …….. percentage [specify the percentage of Local content].

For and on behalf of, Date:

Authorized Signatory
(With Company Seal & Signature)
Firm Reg No:
Membership No.

Note: This is a guiding format. In case the bidder submits the certificate in a format different from the above, the same may be considered provided it meets the intent and purpose, as may be ascertained by BHEL.

Annexure-G (i)

(Applicable only for MSE Suppliers)
Certificate by Chartered Accountant on letterhead

This is to Certify that MIs_____, (hereinafter referred to as 'company') having its registered office at _____ is registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part-II)_____ dtd:_____, Category: _____ (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on date_____ as per MSMED Act 2006 is as follows:

1. For Manufacturing Enterprises: Investment in plant and machinery (Le. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5,2006:
   Rs. _____ Lakhs

2. For Service Enterprises: Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006: Rs _____ Lakhs The above investment of Rs _____ Lakhs is within permissible limit of Rs _____ Lakhs for _____ Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Date:

(Signature) Name-
Membership number-
Seal of Chartered Accountant with UDIN reference

Annexure-G (ii)

(Applicable only for MSE Suppliers)
Certificate by Chartered Accountant on letterhead

This is to certify that M/s. _____ (hereinafter referred to as 'enterprise') having PAN Number _____and UDYAM Registration Number _____, registered office at _____ is falling under the category _____ (**Micro / Small / Medium**) under MSMED A c t 2006. (Copy of UDYAM Registration Certificate to be enclosed).

The said classification of _____ (**Micro / Small / Medium**) is arrived at based on the Notifications / guidelines / clarifications issued under Micro, Small and Medium Enterprises Development Act, 2006 including the notification S.O.2119 (E) dated 26th June 2020.

The Investment of the enterprise in Plant and Machinery or Equipment as at 31st March' 20_ _ as per Clause - 4 of the Notification is Rs._____ (Rupees in Lakhs).
The turnover of the Enterprise for the period ending 31st March 2020 as per Clause - 5 of the Notification is Rs._____ (Rupees in Lakhs).

Date:

(Signature) Name-
Membership number-
Seal of Chartered Accountant with UDIN reference

GENERAL CONDITIONS OF CONTRACTS (GCC)

DEFINITIONS OF TERMS

ABBREVIATIONS

INSTRUCTIONS TO BIDDERS

GENERAL COMMERCIAL TERMS & CONDITIONS

ANNEXURES

ELECTROPORCELAINS DIVISION
BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. of India Undertaking)
PROF. CNR RAO CIRCLE, IISc POST
MALLESHWARAM
BANGALORE - 560012

DEFINITION OF TERMS

Throughout the Tender Documents including the Enquiry Letter, the following words shall have the meanings assigned to them herein, unless the subject matter or the context requires otherwise.

1 **Purchaser / BHEL** shall mean **M/s Bharat Heavy Electricals Limited** (A Govt. of India Undertaking) incorporated under the Companies Act 1956 acting through its **Electroporcelains Division (EPD),** IISc Post, Prof. CNR Rao Circle, Malleswaram, Bangalore - 560012 (Karnataka) which expression shall include its successors and assigns.

2 **EXECUTIVE DIRECTOR**" or 'GROUP GENERAL MANAGER or "GENERAL MANAGER (In-charge)" or "GENERAL MANAGER" shall mean the Officer in Administrative charge of EPD, Bangalore.

3 "**COMPETENT AUTHORITY**" shall mean Executive Director or Group General Manager or General Manager (In -charge) or General Manager or BHEL Officers who are empowered to act on behalf of the Executive Director or General Manager (In-charge) or General Manager of BHEL.

4 **Owner** shall mean the **Customer or Client** for whose project the enquiry is issued by Purchaser and shall include its successors and assigns as well as authorized officer(s)/ representative(s).

5 **Consultant** shall mean the agency appointed by Owner or Purchaser to provide consultancy services for the project and shall include its successors and assigns as well as authorized officer(s)/ representative(s).

6 **Tenderer** shall mean the Firm/ Company/ Organization which quotes against the Tender Enquiry issued by Purchaser. It may also be referred as **Bidder or Vendor.**

7 **"CONTRACT**" or "CONTRACT DOCUMENT" shall mean and include the Agreement of Purchase order / Work Order, the accepted appendices of Rates, Schedules, Quantities if any, General Conditions of Contract, Special Conditions of Contract, Instructions to the Bidders, Drawings, Technical Specifications, the

Special Specifications, if any, Integrity Pact (if applicable), the Tender documents, subsequent amendments mutually agreed upon and the Letter of Intent/Acceptance issued by BHEL. Any conditions or terms stipulated by the contractor in the tender documents or subsequent letters shall not form part of the contract unless, specifically accepted in writing by BHEL in the Letter of Intent/Award and incorporated in the agreement.

8 **Seller/Contractor** shall mean the Firm/ Company/ Organization with whom the Order/Contract is made and shall be deemed to include its successors, representatives, heirs, executors, administrators and permitted assigns, as the case may be. It may also be referred as **Supplier.**

9 **Sub-Contractor** shall mean the person/ firm/ company/ organization to whom any part of the work has been sub-contracted by Seller/ Contractor, with the written consent of Purchaser, and shall include sub-contractor's heirs, executors, administrators, representatives and assigns.

10 "**ENGINEER**" or "ENGINEER IN CHARGE" shall mean an Officer of BHEL as may be duly appointed and authorized by BHEL to act as "Engineer" on his behalf for the purpose of the Contract, to perform the duty set forth in this General Conditions of Contract and other Contract documents. The term also includes 'RESIDENT MANAGER1 or 'SITE INCHARGE1 as well as Officers at Site or at the Headquarters at Bangalore.

11 "**GENERAL CONDITIONS OF CONTRACT**" shall mean the 'Instructions to Bidders1 and 'General Conditions of Contract pertaining to the work for which above tenders have been called for.

12 **"TENDER SPECIFICATION**" or "TENDER" or "TENDER DOCUMENTS" shall mean General Conditions, Common Conditions, Special Conditions, Price Bid, Rate Schedule, Technical Specifications, Appendices, Annexure, Corrigenda, Amendments, Forms, procedures, Site information, etc and drawings/documents pertaining to the work for which the bidders are required to submit their offers or any other document(s) as mentioned in NIT. Individual specification number will be assigned to each Tender Specification.

13 **LETTER OF AWARD / INTENT**" shall mean the intimation by a Letter/Fax/email to the bidder that the tender has been accepted in accordance with provisions contained in the letter. The responsibility of the contractor

commences from the date of issue of this letter and all terms and conditions of the contract are applicable from this date

14 **COMPLETION TIME**" shall mean the period by 'date/month' specified in the 'Letter of Intent/Award' or date mutually agreed upon for handing over of the intended scope of work, the erected equipment/plant which are found acceptable by the Engineer, being of required standard and conforming to the specifications of the Contract.

15 "**PLANT**" shall mean and connote the entire assembly of the plant and equipments covered by the contract.

16 "**EQUIPMENT**" shall mean equipment, machineries, materials, structural, electrical and other components of the plant covered by the contract.

17 "**TESTS**" shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL, in order to ascertain the quality, workmanship, performance and efficiency of the contractor or part thereof.

18 "**APPROVED**", "**DIRECTED**" or "**INSTRUCTED**" shall mean approved, directed or instructed by BHEL.

19 "**WORK or CONTRACT WORK**" shall mean and include supply of all categories of labour, specified consumables, tools and tackles and Plants required for complete and satisfactory site transportation, handling, stacking, storing, erecting, testing and commissioning of the equipments to the entire satisfaction of BHEL.

20 "**HEADING**" - The heading in these General Conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken as instructions thereof or of the contract.

21 "**WRITING**" shall include any manuscript type written or hand written or printed statement or electronically transmitted messages, under the signature or seal or transmittal of BHEL.

22 "**TEMPORARY WORK**" shall mean all temporary works for every kind required in or for the execution, completion, maintenance of the work.

23 '**CONTRACT PRICE** or '**CONTRACT VALUE** shall mean the sum mentioned in the LOI/LOA/Contract Agreement subject to such additions thereto or deductions there from as may be made under provisions hereinafter contained

24 "**COMMENCEMENT DATE" or "START DATE**" shall mean the commencement/start of work at Site as per terms defined in the Tender.

25 "**SHORT CLOSING" or "FORE CLOSING**" of Contract shall mean the premature closing of Contract, for reasons not attributable to the contractor and mutually agreed between BHEL and the contractor

26 "**TERMINATION**" of Contract shall mean the premature closing of contract due to reasons as mentioned in the contract.

27 "**DE MOBILISATION**" shall mean the temporary winding up of Site establishment by Contractor leading to suspension of works temporarily for reasons not attributable to the contractor

28 "**RE MOBILISATION**" shall mean the resumption of work with all resources required for the work after demobilization.

29 **Site** shall mean and include the land and place on which the power station and related facilities are to be constructed and any adjacent land which may be allocated or used by Owner or Seller/ Contractor in performance of the Order/ Contract.

30 **Tests on completion** shall mean such tests as prescribed in specifications and/ or tests mutually agreed upon by Purchaser and Seller/ Contractor, to be performed by Seller/ Contractor after erection of equipment to establish its satisfactory operation as per specifications.

31 "**COMMISSIONING**" shall mean the synchronization testing and achieving functional operation of the Equipment with associated system after all initial adjustments, trials, cleaning, re-assembly required at site if any, have been

completed and Equipment with associated system is ready for taking into service.

32 **Initial Operation or Trial Operation or Reliability Run** shall mean continuous integrated operation of the contracted/ ordered plant and materials under varying loads as proof of satisfactory operation for a specified period.

33 **Inspection Agency** (IA) shall mean person(s) authorized by Purchaser / Owner to inspect the stores as per Order/ Contract at Contractor's/ Sub-Contractor's works. Vendors to raise inspection call on BHEL EPD.

34 **Month** shall mean calendar month. Day' or 'Days' unless herein otherwise expressly defined shall mean calendar day or days of twenty four (24) hours each. A week shall mean continuous period of seven (7) days.

35 **Consignee** shall mean the official(s)/ person(s) to whom the stores are required to be delivered in the manner indicated in the Order/ Contract.

36 **Plant/ Equipment/ Stores** shall mean the goods, machinery, components, parts, spares etc. required to be supplied by Seller/ Contractor as per Order/ Contract.

37 **Contract Engineer** (CE) shall mean the official who signs the Order/ Contract on behalf of Purchaser.

38 **Site Engineer** shall mean officer of Purchaser/ Owner authorized to receive and verify the in-coming stores, and issue Material Receipt Certificate (MRC)/ Stores Receipt Voucher (SRV).

39 **Site Inspection Agency** (Site IA) shall mean person(s) authorized by Purchaser/ Owner to inspect the stores/ works included in Order/ Contract at the Project Site.

40 **GENERAL**

The words incorporating singular shall include plural and vice-versa, the words incorporating masculine gender shall include feminine gender and vice-versa, and the words incorporating persons shall include bodies, corporate, limited liability companies, partnership and other legal entities.

ABBREVIATIONS

AWB	Airway Bill
BL	Bill of Lading
BOQ	Bill of Quantity
CAD	Cash Against Documents
CENVAT	Central Value Added Tax
CFR	Cost & Freight
CIF	Cost, Insurance and Freight
CIP	Carriage & Insurance Paid (up to destination)
CPT	Cost Freight Paid
CQ	Corporate Quality
CVD	Countervailing Duty
DMS	Document Management System
EMD	Earnest Money Deposit
E&C	Erection and Commissioning
FOB	Free on Board
GR	Goods Receipt
GRN	Goods Receipt Number
H1 bidder	Bidder quoting highest landed cost to BHEL
IP	Integrity Pact
IEM	Independent External Monitor
L1 Bidder	Bidder quoting lowest landed cost to BHEL
LC	Letter of Credit
LOI	Letter of Intent
LOA	Letter of Award

LR	Lorry Receipt
MDCC	Material Despatch Clearance Certificate
MRC	Material Receipt Certificate
MSMED	Micro Small and Medium Enterprises Development
NIT	Notice Inviting Tender
O&M	Operation & Maintenance
PBG	Performance Bank Guarantee
P&ID	Process & Instrumentation Diagram
PO	Purchase order
PQR	Pre-Qualification Requirement
PVC	Price Variation Clause/compensation
QS	Quality Surveillance
RA	Reverse Auction
RAB	Running Account Bill
RBI	Reserve Bank of India
RFQ	Request for Quotation
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GENERAL

These general terms & conditions shall apply to all enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., - Electroporcelains Division (hereinafter referred to as BHEL or the Purchaser) or its Projects / Customers.

1.0 GENERAL INSTRUCTIONS

1.1 Tenderers are advised to study all the tender documents carefully. Any submission of tender by the tenderer shall be deemed to have been done after careful study and examination of the tender documents and with full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless otherwise specifically commented upon in 'Deviation sheets by the tenderer in his offer. Noncompliance with any of the requirements and instructions in the Tender Enquiry may result in rejection of the tender.

Integrity Pact (IP) will be applicable for all tenders/ contracts valuing more than a specific value or if specified in NIT/ RFQ. Integrity Pact document shall be issued as part of tender and shall be returned by bidders along with their technocommercial bids, duly signed by authorized signatories. Only those vendors/ bidders who enter into Integrity Pact with BHEL would be qualified to participate in the bidding process.

1.2 All commercial terms and conditions, except prices, should be submitted as part of techno-commercial offer (Part-I) along with unpriced copy of Annexure-II, which may be opened first. The price part (Part-II) along with price copy of Annexure-II is to be submitted in a separate sealed cover (or to be uploaded in website in case of e-procurement) along with techno-commercial offer. Purchaser reserves the right to open both the Parts at the same time.

1.3 A declaration as per Annexure-III must be sent before opening of Price Bids.

2.0 PROCEDURE FOR SUBMISSION & OPENING OF TENDERS

2.1 Tenders shall be submitted in **Two parts** on or before the Due Date and time indicated in the NIT/ RFQ.

PART – I : Techno-Commercial Bid

comprising of Technical Offer, Annexure-I, Commercial Terms & Conditions, Unpriced copy of Price Bid& Annexure II, PQR documents (if applicable) in two

(2) sets.

PART – II: Price Bid

Containing Prices, cost of withdrawal of deviation as per Annexure-II, to be submitted in original, strictly, as per Price Schedule of BHEL for complete scope of Tender Enquiry.

NOTE: Offers are liable to be rejected for changes made by vendors in the Price Schedule, except those specified in the unpriced bid and accepted by Purchaser.

2.1.1 PART-I (Techno-Commercial bid) may be opened on Due Date and time specified in the NIT/ RFQ, or extension thereof, in presence of tenderers who may like to attend. Incomplete offers are liable to be rejected. Purchaser reserves the right to open both Part-I and Part-II together.

2.1.2 PART-II containing prices shall be submitted along with Part-I but in a separate sealed cover. Corrections/amendments shall be properly authenticated, else the offer is liable to be rejected.

2.1.3 Any discount/revised offer submitted by a bidder on its own shall be accepted provided it is received on or before the due date and time of offer submission. The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.

Unsolicited discounts/revised offers given after due date and time of offer submission shall not be accepted.

In case there is no change in the technical scope and/or specifications and/or commercial terms & conditions, the bidder/s shall not be allowed to change his/their price bids after the due date, within the validity period.

In case of changes in scope and/or technical specification and/or commercial terms & conditions, having price implications, techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. A cut-off date and time shall be given to all the techno-commercially acceptable bidders to submit the impact on their price bids.

In the event of any bidder, after finalizing the technical specification & scope of supply, opting to revise and submit their latest price bid instead of submitting impact on their price bid asked by BHEL, then their original price (i.e. the previous bid) shall also be opened.

Price Impact/ Discount/ Revised Price Bid shall be duly superscribed as:

"Price Impact / Discount/ Revised Price Bid (Part-II) (delete whichever is not applicable), Revision No. ___ against Tender Enquiry No. _____ dated ____"

2.2 After technical & commercial examination of the offers received and clarifications obtained (if required), Part-II (Revised Price Bid/ Original Price Bid along with Price Impact and Discount, if any) shall be opened, for which the date and time shall be intimated to technically and commercially acceptable bidders in case of public opening. BHEL may opt to finalise the prices through Reverse Auction amongst technically and commercially acceptable bidders. BHEL reserves the right to open the earlier price bids, if any, submitted by the bidder(s), if required.

2.3 No correspondence shall be entertained from the tenderers after opening of Part-II (Price bid), except clarifications (if any) asked by BHEL in writing.

2.4 **Instructions regarding centralised tender room and tender opening:**

a) Vendors are advised to submit the tenders in the tender box, containing Part-I & II offers in separate covers, preferably cloth lined envelopes should be used, properly marked before due date and time.

b) BHEL-EPD shall not accept any tender in torn condition and return the same to the courier immediately with the Stamping "Returned to Sender-Package Damaged". Offers in damaged condition will not be considered and no request for extension on this account will be considered.

c) Bidder's representative shall deposit the offer in tender box only.

d) Bidders shall be allowed in the tender room in area identified for bidders and only one/two authorized representative(s) from each bidder shall be allowed.

e) Bidder shall not be allowed to carry mobile/camera /laptop in the tender room. The same shall have to be deposited at security in advance and taken back after tender opening.

f) In case of two part bid system, bidder's representative(s), witnessing the tender opening shall have to sign on all the envelopes containing the price bids. Thereafter, all the price bid envelopes shall be put in a bigger envelope / box and the same shall be properly sealed. The sealed envelope / box shall have to be

signed by the tender opening official(s) / committee of Purchaser and bidder's representatives.

g) Details of offers shall be read out to bidders and in no case the offers shall be handed over to any of the bidders for noting down.

h) Please ensure tender submission, minimum 1 hour before scheduled tender opening time.

Late tenders shall not be accepted.

2.5 Purchaser may negotiate the tender with L1 bidder after RA/ price bid opening.

2.6 **MARKING ON ENVELOPES**

2.6.1 Following shall be superscribed on the envelopes which shall be addressed by name and designation to the official inviting tender:

PART-I :
1. TENDER ENQUIRY No. AND ITEM DESCRIPTION
2. DUE DATE FOR OPENING
3. "TECHNO-COMMERCIAL BID".

PART-II :
1. TENDER ENQUIRY NO AND ITEM DESCRIPTION
2. DUE DATE FOR OPENING
3. "PRICE BID".

2.6.2 Both Parts - I & II shall be submitted in separate sealed covers duly superscribed as indicated above and shall be enclosed further in a main cover duly sealed and superscribed as:

"TENDER FOR _____AGAINST TENDER ENQUIRY NO. _____ DUE ON_____ CONTAINING PART-I & PART-II BIDS"

2.6.3 Envelope not marked with tender enquiry number is liable to be ignored and may not be opened.

2.7 **BID SUBMISSION**

2.7.1 Tenders shall be addressed to BHEL officials by name & designation and sent to the following address:

Tender Box at the reception of EPD,
Bharat Heavy Electricals Ltd.
ELECTROPORCELAINS DIVISION
Opp. IISc, PROF. C N R RAO CIRCLE ,
MALLESWARAM , BANGALORE - 560 012
Attention: 1) Mr.

2) Mr.

2.7.2 Tenders can either be deposited in tender room in person or sent by Courier/Registered or Speed Post to the above mentioned address. It shall be bidders' responsibility to ensure that tenders are delivered latest by 14:00 hours (IST) of the enquiry due date.

2.7.3 Bidder can also submit offer through email, if called for in the enquiry, at the email address indicated in the enquiry. Such email offers shall be sent only on designated email-id to reach before 14.00 hrs of the tender due date. BHEL will not be responsible for incomplete offers and the ones delivered late through e-mail.

2.8 Tenders received after the Due Date and Time of submission as mentioned at 2.7.2 shall be rejected.

2.9 Name of vendor's dealing person with Contact No(s), Email ID and Address of correspondence shall be provided in the bid as per ANNEXURE **XVIII**.

2.10 Unsolicited tenders will not be entertained.

2.11 **OFFER SUBMISSION IN E-PROCUREMNT**

Tenders shall be submitted in Two parts on or before the Due Date and time indicated on the portal as per the following instructions:

PART – I : Technical & Commercial bid

Comprising of following:

1. PQ qualification documents (Mandatory, if shown on portal)
2. Annexure-I to GCC (Mandatory)
3. General conditions of contract, GCC (Mandatory)
4. Special conditions of contract, SCC (Mandatory)
5. Technical offer, comprising of technical specification and other documents as asked in technical specifications e.g. drawings, test report etc. (Mandatory)
6. Annexure-III to GCC (Declaration about completeness of price) - (Mandatory)
7. Annexure-XII to GCC (Optional)

"NO DEVIATION CERTIFICATE" FOR COMMERCIAL TERMS AND

CONDITIONS as per General Conditions of Contracts (GCC, Rev.01), Special Conditions of Contracts and RFQ in case of no deviations

8. Integrity Pact Agreement (Mandatory if shown on portal, not applicable otherwise)

9. Unpriced copy of Annexure-II, cost of withdrawal of deviation (Mandatory)

10. Supplier details as per detail annexure.

Any deviation not mentioned in un-priced copy of this format, but mentioned in the priced copy, shall not at all be accepted.

Bidder to note all the points mentioned in "Notes" of Annexure-II to GCC Rev.01.

Cost of withdrawal for the deviations, for which, the "Cost of withdrawal" is not specified, shall be taken as NIL.

The vendors shall be forced by the system to upload the above documents which are marked mandatory. The Annexure mentioned at Sl no 2, 6 & 7 (if applicable), above should be duly filled by the bidder and should be printed on their letter head before uploading.

PART – II: Price bid

Containing

1. Prices as per price format,

2. Cost of withdrawal of deviation as per Annexure-II, to be uploaded strictly as per Price Schedule of BHEL for complete scope of Tender Enquiry.

NOTE: Offers are liable to be rejected for changes made by vendors in the Price Schedule, except those specified in the unpriced bid and accepted by Purchaser.

The clause nos 2.6 & 2.7 above of this GCC shall not be applicable in case of eprocurement

3.0 In case of TURNKEY PACKAGES total **erection & commissioning charges** including service tax should be minimum 15% (or as specified in NIT) of the total quoted package price (excluding mandatory spares but including all taxes and freight), failing which the break-up of prices shall be adjusted accordingly for ordering.

4.0 **Authority of the person signing the tender on behalf of the tenderer:**

A person signing the tender or any other document in respect of Order/Contract on behalf of the tenderer, without disclosing his authority to do so shall be deemed to warrant that he has the authority to bind the tenderer. If it is discovered at any time that the person so signing had no authority to do so, the Purchaser may, without prejudice to any other right or remedy, cancel the Order/Contract and make or authorize the purchase of the stores at the risk and cost of such tenderer and hold such tenderer liable to Purchaser for all costs and damages arising from cancellation of the Order/Contract including any loss which Purchaser may sustain on account of such purchase.

Notes:

a) Bids of Indian supplier shall be in Indian Rupee only.

b) Bids of foreign suppliers shall preferably be in currency of the country of origin and on CPT/ CFR basis. In case of supplies from Indian origin, it shall be in INR on F.O.R BHEL EPD BANGALORE - 12.

c) An authorized representative/ agent can represent only one bidder for the given package.

5.0 CLARIFICATIONS REQUIRED BY BIDDERS

Technical and commercial clarifications required before submission of the tender should be addressed to the official(s) inviting the tender. The bidders are requested to submit all their queries/clarifications by the date specified in the NIT after which it will be presumed that there are no queries/clarifications and BHEL will be under no obligation to reply queries/clarifications raised after the date.

6.0 DEVIATIONS - LISTING

6.1 Tenders shall be submitted strictly in accordance with the requirements of tender documents. In case of deviations from NIT, the tenderer shall give cost of withdrawal of such deviation in Sealed Cover as per Annexure-II.

6.2 If bidder insists for price variation clause (PVC) where NIT specifies Firm price, the offer should contain:-

a) PVC Formula

b) Ceiling for PVC

c) Base date and applicable indices for the base date.

Open ended PVC formula is not acceptable. Indices shall be based on Government of India/ RBI publications/ IEEMA/ LME etc. However, BHEL reserves the right to accept/ reject the offer with PVC.

7.0 VALIDITY OF OFFER

Vendors' offers shall be submitted with the following validity periods:

i) Original offer shall be valid for 90 days from Part-I opening.

ii) If revised price bid/ price impact is asked by BHEL, the validity of the same shall be 60 days from the date of revised price bid/ price impact or 120 days from Part-I opening, whichever is later.

iii) Prices of Recommended Spares, O&M Spares and Mandatory Spares (wherever these are Optional items) shall be valid till two years from the date of PO.

iv) Unit prices for scope addition/deletion shall be valid till two years from the date of PO.

v) Prices of optional items shall be valid till the contract period for placement of order.

vi) Offers with shorter validity are liable to be rejected.

8.0 LANGUAGE & CORRECTIONS

a) Tenderer shall quote the rates in Hindi/English language and international numerals only. Total Price shall be entered in figures as well as in words. For the purpose of tender, metric system of units shall be used.

b) All entries in the tender shall either be typed or written legibly in ink. Cancellations, corrections, insertions, erasements, over-writing (if unavoidable) shall be authenticated with signature and seal by the bidder.

9.0 PRICE DISCREPANCY

Following shall be considered for evaluation and ordering for non-conformities/ errors/ discrepancies in price bid:

(a) If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the Purchaser there is an

obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.

(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.

(c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.

(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the Purchaser, the bid is liable to be ignored.

(e) Taxes and duties if not specified clearly as extra shall be considered as included in the basic price and, therefore, shall not be reimbursed.

10.0 TENDERER TO INFORM HIMSELF FULLY

10.1 Tenderer shall closely peruse all clauses, specifications & drawings etc. indicated in tender documents before quoting. In case of any doubt about meaning of any portion of tender specifications or discrepancies or omissions in drawings/tender document or clarifications regarding scope of work etc., tenderer shall contact the official(s) inviting the tender for clarifications, before submitting the offer.

10.2 Tenderer shall make independent enquiries as to conditions and circumstances affecting cost estimates, and possibility of executing supplies/works as described. Tenderer shall be deemed to have inspected and examined the site and its surroundings and to have satisfied himself as to the form and nature of the site, the quantities and materials necessary for completion of the work and means of transport and access to the site, the accommodation required, general labour position at site and to have quoted prices taking into consideration the risks, contingencies and other circumstances which may influence or affect execution of the Order/Contract.

10.3 It is the responsibility of tenderer to keep himself informed about all taxes &duties applicable on materials/services as prevailing at the time of tendering. If the rates assumed by tenderer are less than the tariff rates prevailing at the time of tendering, the tenderer will be himself responsible for such under quotations.

11.0 ETHICS IN BUSINESS DEALINGS & FRAUD PREVENTION POLICY

11.1 The Bidder along with its associate/collaborators/sub-contractors/sub vendors/ Consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website *http://www.bhel.com* and shall immediately

bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice."

11.2 Integrity commitment, performance of the contract and punitive action thereof:

11.2.1 Commitment by BHEL:
BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

11.2.2 Commitment by Bidder/ Supplier/ Contractor:

(a) The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.

(b) The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.

© The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on www. bhel.com and/or under applicable legal provisions".

12.0 INTEGRITY PACT

Vendors shall have to enter into Integrity Pact with BHEL if specified in NIT/ RFQ, failing which vendor's offer will be rejected (Refer Annexure-IX).

13.0 REVERSE AUCTION

BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid (priced format submitted along with the offer in case of e-procurement),submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Nonsubmission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid (priced format submitted along with the offer in case of e-procurement) already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid (priced format submitted along with the offer in case of eprocurement) for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com)."

14.0 REJECTION OF TENDER AND OTHER CONDITIONS

14.1 Acceptance of tender will rest with Purchaser and does not bind him to accept the lowest or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever:

a) To reject any or all the tenders.

b) To split the work amongst two or more tenderers (where E&C is not in tenderer's scope).

c) To award the work in part. (where E&C is not in tenderer's scope).

d) To increase or decrease the quantities.

e) To reject any commercial or technical deviation given in offer.

14.2 Standard pre-printed conditions of tenderer attached to offer will not be accepted and only those mentioned in the body of offer will be considered.

14.3 Purchaser will not be bound by any power of attorney granted by tenderer or by changes in composition of the firm made subsequent to award of Order/Contract. Purchaser may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Seller/Contractor concerned.

14.4 If tenderer deliberately gives wrong information, Purchaser reserves the right to reject such an offer at any stage or cancel the Order/Contract, if awarded, and forfeit the security deposit and bank guarantee.

15.0 DEVIATIONS FROM NIT

15.1 Deviations (Commercial as well as Technical) from NIT are generally not acceptable. In case of deviations from NIT, the tenderer shall give cost of withdrawal of such deviation in Sealed Cover as per Annexure-II.

16.0 Loading For Commercial Deviations (where cost of withdrawal not given)

16.1 For deviations w.r.t. Payment terms, Liquidated damages, Firm prices and submission of E1/ E2 forms before claiming 10% payment, if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VIII will apply.

17.0 Interest Rate for loading will be taken as Base rate of SBI (as applicable on the date of bid opening, Techno-commercial bid, in case of 2 part bids) + 6% for the period of relaxation sought by the bidders.

18.0 DISCOUNT

Discount offered by any bidder in the original price bid, against the present Tender Enquiry, which is also indicated to be applicable to any other Enquiry, shall be considered against the present Tender Enquiry only. In case only percentage discount is indicated, the same shall be applicable to optional prices also.

Discount offered shall be valid for full duration of offer validity.

Any conditional discount shall not be considered for evaluation.

19.0 EVALUATION CRITERIA

19.1 Evaluation of the tender shall be on the basis of delivered cost, i.e. 'total cost to BHEL' w.r.t the finalized technical scope and commercial conditions (after considering, inter alia, Customs Duty and CENVAT/ VAT/ Service Tax/Entry Tax as applicable) and taking into consideration loadings, if any, and all available financial advantages.

19.2 Exchange rate (TT selling rate of State Bank of India) applicable on the date of Part-I bid opening shall be considered for evaluation of foreign bids. If the relevant day happens to be a bank holiday in India, then the FOREX rate as on the previous bank working day shall be taken for evaluation.

19.3 Foreign suppliers shall ensure that the benefits as applicable under Comprehensive Economic Partnership Agreement (CEPA) with Government of India are disclosed in the bid & relevant documents such as Certificate of Country of Origin, issued by the appropriate authority in the country of Export, is provided by the vendor along with dispatch documents. Bids shall be evaluated with such applicable benefits. In the event of Seller failing to provide appropriate documents for Purchaser to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the Seller's account.

19.4 The quoted CFR price shall be loaded by the following to arrive at the Delivered Cost:

- Import duty as applicable at the time of Part-II (Price) bid opening.
- Terminal handing charges at destination & other charges & Inland freight will be loaded at 1% of CFR value.

20.0 FOREIGN SUPPLIERS &INDIAN AGENTS OF FOREIGN SUPPLIERS

Please refer 'Annexure-V' for guidelines.

21.0 MICRO & SMALL & MEDIUM ENTERPRISES

Extant regulations of Govt. of India titled "Public Procurement Policy for Micro & Small Enterprises (MSE's) Order dated 23.03.2012" will be applicable.

22.0 Authorisation for participation in EPS portal through DSC

E-Tender Participation requirements

Either Principal or authorised agent shall register their Digital Signature Certificate (DSC) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION). You are advised to pls go through the FAQ available in the web portal (~~https://bheleps.buyjunction.in~~). DSC shall be registered for the authorised person and all transaction done using that DSC against our tenders shall be taken as valid communication and shall be binding on principal/agent and is valid legally.

For foreign Principal

In case of Principal (being foreigner) they may apply for DSC through Indian embassy at their country and can register with us for participating in E-tenders. Details of the applicable procedure is available in the webpage http://www.cca.gov.in/cca/

For Indian agent

In case of agents participating/registering their DSC (of authorised person), it will be at the sole authorisation of principal to their agents to participate on their behalf and all transactions done using that DSC against our tenders shall be known as valid communication and shall binding on principal and is legally valid.

DSC Authorisation

Pls intimate the authorised person name, Mail ID for registering DSC with us to participate in E-Tenders

GENERAL COMMERCIAL TERMS & CONDITIONS

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1.0 ACCEPTANCE OF ORDER

Seller/Contractor should acknowledge and accept the LOI/ Purchase Order issued by BHEL within 7 days of its receipt. Seller/Contractor should examine the LOI/ Purchase Order immediately upon receipt and bring to the notice of BHEL, within 7 days of receipt, any discrepancy with regard to scope of work, rates, taxes & duties, agreed terms & conditions etc. for due rectification. If the Seller/Contractor fails to give such intimation / acceptance within seven days, the Seller/Contractor shall be deemed to have agreed to supply the stores as per LOI/ Purchase Order.

2.0 CONTRACT

Contract between Purchaser and Seller/Contractor is merely a contract and shall not be treated as partnership between the parties to the contract.

3.0 PRICES

Prices shall be for the entire scope of work in line with the tender documents and subsequent clarifications/confirmations.

4.0 TAXES AND DUTIES

4.1 **EXCISE DUTY for Indigenous purchase**

4.1.1 Seller/Contractor is required to ensure that excise duty including cess, if any, is quoted as per the existing tariff on the date of the offer and all benefits as per existing rules have been considered.

4.1.2 Excise duty actually incurred by Seller/Contractor on self-manufactured items shall be reimbursed against documentary evidence.

Excise duty paid by bidder on inputs, bought out items, raw materials and components consigned directly from sources other than Seller/Contractor's factory/works shall be included by the bidder in the quoted ceiling amount of excise duty and the same shall be payable extra at actuals limited to the ceiling amount.

4.1.3 If excise duty is paid under protest or dispute, it shall not be reimbursed till the dispute is settled. If the Seller/Contractor claims/obtains any refund of the excise duty paid, the same shall be refunded to the Purchaser immediately

4.1.4 Invoice cum Excise duty gate pass (Excise Invoice) should contain the name of the ultimate consignee as per Order/Contract/ Special Conditions of Contract.

4.1.5 If required by Purchaser, the Seller / Contractor will provide a certificate stating that CENVAT benefit has been availed of on the inputs and the same has been passed on to the Purchaser.

4.1.6 Excise duty shall be paid at actuals against documentary evidence but restricted to the amount and percentage indicated in the Order/Contract.

4.2 **SALES TAX/VALUE ADDED TAX (VAT) for Indigenous purchase**

4.2.1 Central Sales Tax / Value Added Tax shall be reimbursed only if the same is paid by the Seller / Contractor to the respective Govt. authorities on direct sales by the Seller/ Contractor to the Purchaser, meeting all statutory requirements and availing all exemptions/concessions under the respective Central Sales Tax / Value Added Tax Acts. The offer should clearly indicate CST/VAT percentage and the total amount along with concessional form(s), if any.

4.2.2 Purchaser is registered in Bangalore, Karnataka vide following Registration Numbers:

Central Sales Tax Registration No. : 00850070 w.e.f. 06-03-1999.

Karnataka TIN. : 29470052861

4.2.3 Central Sales Tax/Value Added Tax shall be reimbursed, as per tariff applicable, but restricted to the percentage and amount shown in the Order/Contract. If it is shown as included in the quoted price/ not applicable, it will not be reimbursed by the Purchaser.

4.2.4 For the purchase re-sold items, purchaser proposes to make sale-in-transit under section 6 (2) (b) of Central Sales Tax Act where goods movement is inter-state. Form-C shall be issued and exchanged against Form-E1/E2 based on quarterly transactions. Seller/Contractor is required to submit his request in the format enclosed at Annexure-VI within 30 days from end of the Quarter, giving State-wise invoice details. In compliance with the notification No. CCW/CR-44-2013-14 dt. 29/04/2014 issued by Commercial Tax Dept., Govt. of Karnataka, vendors shall submit all the requisite documents within 10 days of dispatch for the purpose of issuance of 'C' forms. Timely issuance of 'C' form will depend on the compliance of this condition.

Note: In case of non-receipt of E1/E2 forms amount of differential tax payable by BHEL shall be to vendors' account. Submission of E1/E2 forms shall be ensured by Vendor within the time specified in sales tax act.

4.2.5 For the purchase re-sold items, VAT invoices, in format prescribed by the respective State Sales Tax Act, have to be submitted in the name of Nodal Agency, if specified in Special Conditions of Contract.

4.3 **SERVICE TAX for Indigenous purchase**

4.3.1 Service Tax and Cess leviable on taxable services for the time being in force paid by the Service Provider /contractor to the Government authorities directly shall only be paid at actuals against documentary evidence of Service tax payment (Service Tax remittance challan) made to concerned Service tax authorities corresponding to the tax claimed in the previous invoice / RAB, but restricted to the rate and amount mentioned in the order/contract. The offer should clearly indicate the percentage and the total amount of service tax as well cess. Cess to be indicated as separate line item in invoice.

4.3.2 Service provider/Contractor to ensure their registration for "Intended Service" to be provided, before claiming Service tax under the "intended category". Decision of BHEL shall be final w.r.t. the "Intended category" in which the service will be falling.

4.3.3 If required by the Purchaser, the Service Provider/Contractor will provide a certificate stating that "CENVAT Benefit has been availed of on the input and the same has been passed on to the purchaser" or "CENVAT Benefit has not been availed of on the inputs".

4.3.4 Vendor shall comply with the Point of Taxation Rules, as contemplated under the Service Tax Rules. In case, the CENVAT credit could not be availed by BHEL within the time limit (statutory), due to delay in submission of invoice(s) or for any other reason(s) attributable to vendor(s)/contractor(s), liability towards the loss of such CENVAT credit shall be to the vendor(s)/contractor(s) account. TDS shall be made for IT as per Income Tax act.

4.4 **OTHER TAXES & LEVIES for Indigenous purchase**

All taxes and duties other than Excise Duty, Sales Tax/ VAT, Service Tax shall be deemed to be included in the Ex-Works prices unless specified otherwise by the bidder in the price bid. No variation in other taxes and duties shall be payable by Purchaser. However, statutory variation in Octroi will be payable extra against documentary evidence. Anti-dumping duty, if any, shall be in the account of bidder and shall be included in their price. No separate payment shall be made by BHEL for the same.

4.5 **CUSTOMS DUTY for Indigenous purchase**

4.5.1 Customs Duty element for imported items as per Special Conditions of Contract shall be included in the Ex-Works prices. No variation in customs duty and exchange rate for imported items shall be payable by Purchaser.

4.5.2 Seller/Contractor shall arrange for his own import license, if required, since Purchaser will not provide any import license. Therefore, Seller/Contractor alone shall be responsible for any delay in getting import license or non-availability of the same or completion of other related formalities. Purchaser shall not be responsible for any financial liability, whatsoever, on this account.

4.5.3 Essentiality Certificate or Project Authority Certificate (PAC) as per Import Policy, if required to avail concessional customs duty, shall be clearly specified in the offer. Import content (CIF value in rupees) with list of items, quantity, foreign currency, country of origin etc., shall be submitted by the bidder as part of Price bid.

4.6 **DIRECT TAX for Indigenous purchase**

4.6.1 Purchaser shall not be liable towards income tax of whatever nature including variations thereof, arising out of this Order/Contract, as well as tax liability of the Seller/Contractor and his personnel.

4.6.2 Deductions of Tax at source at the prevailing rates shall be effected by the Purchaser before release of payment, as a statutory obligation, if applicable. TDS certificate will be issued by the Purchaser as per statutory provisions.

4.7 **FOREIGN PURCHASE – Imports**

The offered prices shall be inclusive of all the Taxes and duties as applicable in the country of bidder / country of dispatch for the quoted price as per incoterms (FOB/CFR/CIF/CPT etc.). Any variation in the same will be in sellers account.

5.0 <u>STATUTORY VARIATION</u> for Indigenous purchase

5.1 If the rates for taxes and duties in respect of the quoted materials and/or services assumed by the Seller/Contractor are less than the tariff prevailing at the time of tendering, Seller/Contractor will be responsible for such under quotations. However, if the rates assumed are higher than the correct rates prevailing at the time of tendering, the difference will be to the credit of the Purchaser.

5.2 Statutory Variations in Excise Duty, Service Tax and Central Sales Tax/Value Added Tax only on self-manufactured items/services rendered by vendor himself on the rates prevailing at the time of delivery/ completion in comparison to the date of offer, will be to the account of the Purchaser. No other variations such as on customs duty, exchange rate, minimum wages, prices of controlled commodities, any other input etc. shall be payable by the Purchaser.

5.3 Notwithstanding the above, where the actual completion of the supply occurs beyond the period stipulated in the Order/Contract or any extension thereof, variations referred to above, will be limited to the rates prevailing on the dates of such agreed completion periods only. For variations after the agreed completion periods, the Seller/Contractor alone shall bear the impact for the upward revisions and for downward revisions, purchaser shall be given the benefit of reduction in taxes/duties. This will be without prejudice to the levy of penalty for delay in delivery/completion schedule.

5.4 Any new tax structure (like Goods & Services Tax) as and when implemented by the Government shall become applicable in addition to or in lieu of existing tax structure.

6.0 <u>PRICE BASIS:</u>

6.1 For Supply:

6.1.1 Indigenous purchase – Firm, till the completion of contract (or with PVC if specified in NIT). Ex-works, inclusive of packing & forwarding charges. Taxes, duties and freight to be paid in line clause no 4 above.

6.1.2 Foreign purchase: Firm, till the completion of contract (or with PVC if specified in NIT). CFR/CPT/CIF/CIP Indian (air) port basis inclusive of testing, inspection, sea worthy packing & forwarding charges to be paid in line with GCC.

6.2 For E&C:

Firm till completion of the contract (or with PVC if specified in NIT). WCT if any, to be included in price. Service tax along with cess to be indicated separately and will be reimbursed at actuals. TDS shall be made for IT as per Income Tax act.

6.3 Prices shall remain Firm (or with PVC if specified in NIT) for any increase or decrease in the Order/Contract value (Ex-works) upto plus or minus 30% within contract period unless specified otherwise in NIT. The Purchaser shall have the right to increase or decrease quantities and scope upto the above extent of value and

Seller/Contractor shall be bound to accept the same at the contracted prices without any escalation.

7.0 DRAWING SUBMISSION & APPROVAL:

Drawing submission & Approvals as per technical specification is the responsibility of the vendor.

8.0 DELIVERY TERMS

8.1 **Indigenous Purchase**

Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the enquiry.

8.2 **Foreign Purchase – Imports**

8.2.1. Goods shall be dispatched by sea, unless stated otherwise in the enquiry or purchase order.

8.2.2. The goods shall be delivered on CFR basis to the ICD-BANGALORE unless specified otherwise in enquiry or Purchase order.

8.2.3 The quote should be inclusive of all charges, including testing, packing, inspection etc. Additionally ocean freight (LILO basis) for CFR, ICD BANGALORE shall also be quoted separately as per price format.

8.2.4. Goods shall be handled for ocean freight / air freight by BHEL's freight forwarder only, under FOB contracts and OBL / HAWB issued by BHEL appointed forwarder or his authorized agent(s) shall only be accepted for negotiation.

8.2.5 For CFR terms, shipped in Break Bulk/ Container, supplier shall quote the freight charges on LILO (LINER IN LINER OUT) basis. Alternately shipment by container is also acceptable and In such cases B/L should bear the endorsement that "14 free days for Container Detention is applicable" and it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis including extra charges, if any, like Container Imbalance Charges, Trade Imbalance charges, Port congestion charges or any other charges payable to the Liner. No other charges other than the quoted Freight rate will be paid by BHEL excepting applicable Terminal Handling Charges, Container cleaning Charges, DO charges to Shipping Liner at Discharge Port.

8.2.6 In the event there is a delay by the Supplier in negotiating / submitting the document, any demurrage / wharfage arising out of the same shall be to the account of the Supplier and shall be deducted from the final payment. Also, in such cases, the Supplier shall authorize the Steamer / Shipping agent / transporter to freely release the consignment to BHEL by providing a "Surrender Bill of Lading". Over-seas Suppliers have to give a No-Objection Certificate to BHEL,

authorizing BHEL to get the Delivery Order from the Steamer Agent without producing the Original Bill of Lading. This is required to ensure avoidance of incidence of demurrage that may arise in case of delayed presentation of documents by the Seller.

8.3 Delivery shall be staggered in the manner as indicated in the tender for each item. Vendors shall submit their offer accordingly.

9.0 TERMS OF PAYMENT

9.1 **SUPPLY PACKAGES (Main Supply and Mandatory Spares)**

9.1.1 For indigenous purchase

Hundred percent (100%) of basic price of materials supplied, as per PO, along with 100% taxes and duties (as applicable) & freight charges, shall be paid on pro-rata basis after 45 days from the date of receipt of goods & receipt of complete documents as per order/ contract subject to acceptance of materials.

9.1.2 For Foreign Purchase – Imports

Hundred percent (100%) payment on CAD basis after 45 days from the date of receipt of documents specified in PO at BHEL BANK. Respective bank charges to respective account.

9.1.3 **PG TEST, INSTALLATION CHECK, SUPERVISION OF ERECTION / COMMISSIONING CHARGES**

100% payment shall be released after successful completion of the activity.

Vendors shall submit documents for payment directly to BHEL. Payment will be released within 45 days after receipt of complete documents as per order/ contract.

Note:

1) For indigenous suppliers, if the documents are routed through Bank, then all bank charges will be to vendor's account.

2) Foreign bidders can opt for payment (less agency commission, if applicable) through irrevocable and unconfirmed letter of credit. In that case for evaluation purpose, prices of foreign bidders will be loaded on account of payment through LC, equal to loading specified against 'Payment through Bank' in Annexure-VIII. No loading will be done if foreign vendors agree for 75 days issuance LC or submit the documents on collection basis for payment within 75 days of submission of complete documents.

3) LC opening/ negotiation/ confirmation charges will be to vendor's account.
4) Any negative PVC, if not adjusted in earlier payments, will be adjusted at the time of subsequent payment.

9.2 **DOCUMENTS TO BE SUBMITTED BY VENDOR**

9.2.1 **For Recognition of Dispatch**

Copy of the following documents by e-mail/ fax immediately on despatch:

a. Invoice
b. LR /BL/AWB
c. Packing List
d. Insurance Intimation
e. Dispatch Clearance

9.2.2 **For Claiming Payments (under clause 9.1.1, 9.2.1, 9.3.1)**:
(under clause 9.1.1)

a. Original Excise Invoice & Duplicate for transporter – original+3 copies
b. Consignee Copy of LR
c. Packing List - clearly showing number of packages, gross weight and net weight. - original+3 copies
d. MDCC from BHEL/Customer – as per SCC – 4 copies
e. Guarantee Certificate – Original + 3 copes
f. Insurance Intimation - 4 copies
g. PVC Calculation and copy of all applicable indices, if PVC applicable. – 4 copies
h. Duty drawback documents (original excise invoice, original disclaimer certificate, original certificate from excise authority for payment of excise duty), if applicable. – original + 3 copes

It is the responsibility of the vendor to submit invoices along with documents required for effecting payment within the stipulated period mentioned in the applicable statute for this tender. Non-submission of invoices due to delay/reasons attributable to vendor resulting in / leading to loss of tax credit for BHEL will be into vendor's account.

(Under clause 9.1.2)

a. Commercial Invoice – original+3 copies
b. Original clean on board Bill of Lading or clean copy of OBL in case of Telex.
c. Packing List - clearly showing number of packages, gross weight and net weight container wise also. - original+3 copies
d. Delivery/ship/airplane schedule mentioning the estimated date of Arrival (ETA) at port & destination in case of CFR/CPT.

e. MDCC from BHEL/Customer – as per SCC – 4 copies
f. Guarantee Certificate – Original + 3 copes
g. Insurance Intimation - 4 copies
h. PVC Calculation and copy of all applicable indices, if PVC applicable. – 4 copies
i. Original Certificate of country of Origin issued by chamber of commerce.
j. One set of original test certificates & O&M manual where called for.
k. Fumigation certificate wherever cargo is packed in wooden packing or packing of plant origin material is used wherever called for.
l. TUV/UL certificates where ever called for.

In case the Seller decides to negotiate all 3 originals of BL through negotiating Bank, non-negotiable documents (NND) consisting of copy of BL / HAWB & all originals at sl.no. 9.2.2 (Except OBL) will be couriered to Purchaser. Soft Copy of same documents at sl. 9.2.2 will also be sent by e-mail to the Purchaser at his e-mail address given in the PO with one copy to be mailed at ~~ketan@bhelepd.com~~ & rb@bhelepd.com. Other documents, as required, will be separately indicated in the Purchase Order.

Additional expenditure, if any, incurred by the Purchaser by way of detention / demurrage, resulting out of delay attributable to the Seller in providing negotiable documents, will be recovered from the Seller.

Note for 9.2.2 Additionally, vendor may furnish mfg clearance/drg/docs approval date etc. for the purpose of determining contractual delivery for expeditious processing of Invoices.

9.2.3 **For Claiming Payment for Services involving Service Tax**

a. Invoice as per rule 4A of Service Tax Act – Original + 1 copy
b. Copy of Service Tax registration certificate
c. Copy of challan for Service Tax payment corresponding **to** service tax claimed in the previous invoice
d. Certification for having carried out the work as applicable.

9.2.4 All your invoices against our order shall reach BHEL –EPD addressed to:
HEAD OF DEPTARTMENT/MATERIAL MANAGEMENT,
BHEL – ELECTROPORCELAINS DIVISION,
Opp. IISc, PROF. C N R RAO CIRCLE,
MALLESWARAM, BANGALORE - 560 012

a. The envelope shall be super-scribed with P.O No. / W.O No., and the Bill / Invoice numbers & Contact person.
b. Bills / invoices which are brought personally by vendors to EPD are to be dropped in the "BHEL-EPD vendor bills Box" kept near Tender Box at the Reception Office.
c. Any additional tax implication to BHEL due to delay in submission of bills by Vendor beyond one month shall be to vendor's account.

9.8 **LOADING DETAILS IN CASE OF DEVIATIONS**:-

Loading details in respect to deviations in Payment Terms, LD, PVC indicated in Annexure – VIII.

9.9 **BHEL'S BANKERS**

List of the consortium bankers of BHEL-EPD is as per Annexure-X.

9.10 **MODE OF PAYMENT**

Payments shall be made directly to the Seller/Contractor by E-transfer. Seller/Contractor to provide necessary information for the same as per Annexure–VII.

9.11 No interest shall be payable by the Purchaser on the security amount, bank guarantee amount or balance payment or any money which may become due owing to difference or misunderstanding or any dispute between the Purchaser and the Contractor, or any delay on the part of Purchaser in making periodical or final payment or any other aspects incidental thereto.

10.0 <u>RECOVERY OF OUTSTANDING AMOUNT</u>

In event of any amount of money being outstanding at any point of time against the Seller/Contractor due to excess payment or any other reason whatsoever, in the present order/contract or any other order/contract from any BHEL Unit, the outstanding amount shall be recovered from the payments due to the Seller/Contractor or at any other appropriate time and manner/mode as deemed fit by the Purchaser at its sole discretion.

11.0 <u>CONTRACT PERFORMANCE BANK GUARANTEE</u>

11.1 No Bank Guarantee is required where original Order/ Contract value is up to Rs. 25 Lakhs (excluding taxes, duties and freight).

11.2 For original order / contract values above Rs. 25 Lakhs (excluding taxes, duties and freight), only if specified in SCC, the vendor shall submit Contract Performance

Bank Guarantee within 10 days from the date of LOI/LOA (as per Annexure-IV) for 10% of Order/ Contract value (excluding taxes, duties & freight) to cover the due performance of Order/ Contract and to fulfill the guarantee conditions stipulated in the Order/ Contract. However, BG value can be proportionality reduced after completion of Guarantee period Unit-wise/ Lot-wise/ Set-wise, as applicable.

11.3 In case the order is to be placed in foreign currency, the BG must also be in foreign currency, so specified by the Purchaser. Foreign vendors seeking payment through Letter of Credit (LC) should submit the Bank Guarantee before LC opening.

11.4 Value of the Bank Guarantee (at the time of submission) shall remain unchanged for any subsequent variations in order/ contract value up to 20%. Beyond this, the Seller/ Contractor shall arrange to enhance or reduce the value of the Bank Guarantee accordingly.

11.5 Validity of the Bank Guarantee shall be for the entire Guarantee period + 3 months claim period. Initially, it should be at least 18 months + 3 months claim period, later extended to cover the entire guarantee period, two months before its expiry.

11.6 Purchaser reserves the right to encash the bank guarantee and forfeit the amount in the event of any default, failure or neglect on part of the Seller/ Contractor in fulfillment of performance of the Order/ Contract.

11.7 Equivalent amount shall be recovered from payment due to the Seller/ Contractor, before releasing any payment, in absence of a valid bank guarantee.

11.8 Bank Guarantees shall be from Consortium Bank as per Annexure-X. Bank guarantees from cooperative banks/ non-scheduled banks are not acceptable.

11.9 In case of private sector banks, a clause to be incorporated in the text of bank guarantee that it can be enforced by being presented at any branch of the bank located in Bangalore.

11.10 Two witness signatures from bank officials, other than the bank official who has already signed is a must. BG is to be submitted directly by the issuing bank to concerned purchase officer, under registered post (A/D).

11.11 The Bank Guarantee to be provided in the hard and not in the SFMS format". Our bank details are as follows:

Name of Site/division: BHEL EPD
Name of Bank: IDBI BANK, SPECIALIZED CORPORATE BRANCH

Branch Address: 102, SHAKTHI COMFORT TOWER,
KH ROAD, BANGALORE- 560027
PH NO 67121025
KIND ATTN: Mr. MANMOHAN SOMA
ALT: Mrs. VP SHIVA SHAKTI
PH NO 67121059.
Branch IFSC Code: IBKL0000377
Account No: 008103000003605

11.12 Wherever the contract is for supply of Goods processed on labour basis from BHEL supplied materials, the materials shall be issued against a suitable Bank guarantee as specified in the Enquiry.

12.0 GUARANTEE FOR PLANT/ EQUIPMENT/ STORES

12.1 Seller/ Contractor shall warrant that the stores supplied shall be free from all defects and faults in design & engineering, material, workmanship & manufacture and shall be of the highest grade and consistent with the established and generally accepted standards and in full conformity with the Order/ Contract specifications, drawing or samples, if any.

12.2 Guarantee period for **Supply** shall be eighteen (18) months from the date of last dispatch or as per SCC whichever is later.

12.3 All replacements and repairs during the guarantee period shall be delivered and completed promptly and satisfactorily within a period of one months from the time of reporting the defect/ loss/ rejection etc or any mutually agreed period without prejudice to purchaser's other legal rights. If the Seller/ Contractor so desires and the Purchaser agrees, subject to import control regulations, the replaced parts can be taken over by Seller/ Contractor or his representative or can be dispatched at Seller/ Contractor's cost. No claim, whatsoever shall be entertained by Purchaser on account of such replaced parts.

12.4 All the replaced and replenished stores shall also be guaranteed as per above clauses.

12.5 Decision of Purchaser with regard to Seller/ Contractor's liability and the amount involved, if any, payable by Seller/ Contractor under the guarantee shall be final, conclusive and binding. However, vendor's maximum liability will be limited to the total contract value including taxes, duties and freight.

13.0 DELIVERY / COMPLETION SCHEDULE

13.1 Supply of plant/equipment/stores shall not be considered complete until they have been inspected and accepted at the place and destination specified for delivery by the time stipulated under the terms & conditions of the Order/Contract. Mere payment by itself shall not constitute acceptance of the goods or materials in any manner, whatsoever.

13.2 Vendor shall strictly adhere to delivery schedule. In case of non compliance to agreed schedules / milestones, then it would be presumed that vendor / contractor is not fulfilling contractual obligations. BHEL reserves the right to take suitable action like operating "Risk & cost clause".

14.0 INSPECTION AND TESTING AT CONTRACTOR'S PREMISES

14.1 Purchaser's nominated Inspection Agency shall have at all reasonable times access to Seller/ Contractor's premises or works and shall have the power at all reasonable times to inspect drawings of any portion of the work or examine the materials and workmanship of the stores during their manufacture, and if part of the stores is manufactured at other premises, the Seller/Contractor shall arrange for inspection, examination and testing by the Inspection Agency as if the store is manufactured on the Seller/Contractor's premises.

Inspection calls should be given adequate notice of one week or as mutually agreed period in advance in writing to the purchaser about the date & place where goods will be ready for inspection & testing, as provided for in the contract.

Such inspection, examination and testing by itself shall not relieve the Seller/Contractor from any obligation under the Order/Contract.

14.2 Seller/Contractor shall give Inspection Agency reasonable notice of any material being ready for testing and the Inspection Agency shall (unless the inspection of tests is voluntarily waived) attend at the Seller/Contractor's premises within fifteen (15) days of the date on which the material is notified as being ready. All standard shop tests, physical and chemical tests required by the standards or as may be prescribed or approved as per Order/ Contract shall be conducted by the Seller/Contractor. Purchaser/Inspection Agency reserves the right to waive any of the above tests requirements and to prescribe new tests, if found necessary, to complete the work so as to conform to the best practices. Seller/Contractor shall forthwith forward to the Inspection Agency, duly certified copies of the test certificates in quadruplicate, for approval. Further copies of the shop test certificates shall be bound with the instruction manuals referred to in "Seller/Contractor's documents, drawings and instruction manuals".

14.3 Where the Order/Contract provides for tests/inspections at the premises or works of the Seller/Contractor or any sub-contractor, the Seller/Contractor, except specified otherwise, shall provide free of charge such assistance, labour, materials, electricity, fuel, water, stores, apparatus, measuring instruments and test equipment including any other facilities as may be reasonably required to carry out such tests efficiently. In case of inspection by BHEL or BHEL CUSTOMER, the cost of to & fro passage and boarding & lodging shall be borne by purchaser/customer, unless otherwise specifically agreed. In case of foreign vendors the cost of third party inspection, where called for shall be deemed to be included in the quoted price.

14.4 Inspection calls shall be addressed to BHEL-EPD Purchase Department irrespective of inspection categories.

14.5 **INSPECTION MEASURING AND TEST EQUIPMENTS**

14.5.1 Inspection Measuring and Test Equipments (IMTE) whether used by the Seller/Contractor or sub-contractor shall be calibrated, maintained and controlled. Calibration shall be valid and IMTE maintained in sound condition during usage.

14.5.2 In addition to above, Seller/ Contractor shall ensure the following :

a) Measurement uncertainty is known and consistent with required measurement capability of the IMTE.

b) Selection of IMTEs is compatible with the necessary accuracy and precision of required measurement.

c) IMTEs are calibrated at the required intervals against certified equipments having known valid relationship to nationally recognized standards, at recognized calibration labs.

d) Calibration records are available and traceable to the particular IMTE.

e) In case, during recalibration, the IMTE is found out of calibration, report on action taken to validate the previous results along with both calibration records of the IMTE to be furnished to Inspection Agency.

f) IMTEs are stored, handled and preserved such that accuracy and fitness are maintained and safeguarded from adjustments.

NOTE: Purchaser's decision on acceptability of the product in such cases shall be binding.

14.5.3 Responsibility of usage of valid and calibrated IMTEs by his sub-contractor(s) shall be of the Seller/ Contractor.

14.5.4 In case, calibration records are required by purchaser, copies of the same shall be furnished.

14.6 Seller/Contractor shall be fully responsible for the Quality of products supplied by sub-contractors.

15.0 MATERIAL DESPATCH CLEARANCE CERTIFICATE (MDCC)

15.1 When the tests have been satisfactorily completed at Seller/Contractor's works, the Inspection Agency shall issue a certificate to that effect within fifteen (15) days after completion of the tests, but if the tests were not witnessed by the Inspection Agency or his representative, the certificate would be issued within fifteen (15) days after receipt of the test certificates by the Purchaser.

15.2 Purchaser/Owner will issue MDCC to the Seller/Contractor based on inspection report/ test certificates.

15.3 No item / equipments shall be dispatched without obtaining Material Dispatch clearance certificate from BHEL-EPD Purchase Department irrespective of inspection categories.

15.4 Satisfactory completion of tests or issue of MDCC shall not bind the Purchaser/Owner to accept the supply/ equipment should it, on further tests after erection, be found not to comply with the contract provisions.

16.0 DELIVERY FAILURE AND TERMINATION/LIQUIDATED DAMAGES

16.1 Timely dispatch/delivery and completion of other schedules as stipulated in Order/Contract shall be the essence of Order/Contract. If the Seller/Contractor fails to complete the dispatch/delivery and other schedules within the time period stipulated in Order/Contract, or within any extension of time granted by Purchaser, it shall be lawful for Purchaser to recover damages for breach of Order/Contract without prejudice to any other rights and/or remedies provided for, in the Order/Contract and hereunder. For any delay not attributable to the Seller/Contractor, the Seller/Contractor must report the same to Purchaser immediately.

16.2 **DELAYED DELIVERY**

16.2.1 Purchaser reserves the right to recover from the Seller/Contractor, as agreed liquidated damages and not by way of penalty, a sum equivalent to half (½) percent of the total contract price per week or part thereof, subject to a maximum of ten (10) percent of the total contract price excluding elements of taxes, duties and freight, if

the Seller/ Contractor fails to deliver ordered stores within the period stipulated in the Order/Contract.

However, In case of staggered delivery schedule, the LD shall be half (½) percent of the undelivered portion per week or part thereof, subject to a maximum of ten (10) percent of the contract price excluding elements of taxes, duties and freight, if the Seller/ Contractor fails to deliver any part of the ordered stores within the period stipulated in the Order/Contract.

NOTE:

1. LR/ RR date for indigenous supplies and AWB/ BL date for FOB/CIF/CIP/CFR/CPT contracts shall be treated as the date of dispatch for levying LD as per Clause 16.
2. In case of any amendment/revision, LD shall be linked to the amended/revised contract value and delivery date(s).
3. If Order/ Contract involves two or more Units/ Sets/ Lots, then Liquidated Damages shall be for order/ contract value of the delayed Unit/ Set/ Lot, provided delivery stipulated in the Order/ Contract is Unit/ Set/ Lot wise, however total LD amount shall be limited to 10% of total order value. (excluding taxes, duties and freight)

16.2.2 Purchaser reserves the right to purchase from elsewhere on account of and at the risk and cost of Seller/Contractor, with notice to Seller/Contractor, the stores due for delivery but not so delivered, or their equivalent without cancelling the Order/Contract in respect of stores not yet due for delivery. The manner and method of such purchase shall be at the discretion of the Purchaser. The actual excess cost incurred for such purchases will be recovered from the bidder.

16.2.3 Purchaser reserves the right to cancel the Order/Contract or a portion thereof for the stores not so delivered at the risk and cost of the Seller/Contractor and the Seller/Contractor shall be liable to the Purchaser for any excess cost thereof. The actual excess cost incurred for such purchases will be recovered from the bidder.

16.2.4 Seller/Contractor shall continue performance of the Order/Contract, under all circumstances, to the extent not cancelled.

17.0 INSURANCE

17.1 Insurance shall be arranged by BHEL.

17.2 Vendors shall inform the Underwriters, appointed/ nominated by BHEL/ Purchaser, the details of dispatches under intimation to BHEL such as LR No./BL/AWB and date, Truck No./vessel details/flight details, P.O. No. and value.

17.3 Insurance as applicable for field work such as third party liability, workmen compensation, Seller/Contractor's own Tools & Plants and automobile shall be arranged by the Seller/ Contractor.

18.0 INTER-CHANGEABILITY AND CHANGES

18.1 All similar components or parts of similar equipment supplied by Seller/Contractor shall be interchangeable with one another.

18.2 Even though all the work and materials necessary for satisfactory completion of the works may not be detailed in the specifications and schedules, the cost will be considered to be within the contract price and no extra charges shall be payable. However, if there are substantial changes in the specifications of the stores/plant, consequential changes in prices shall be mutually agreed between Purchaser and Seller/Contractor.

19.0 PACKING AND DISPATCH MARKING

19.1 Packing shall be in conformity with specifications and shall be such as to ensure prevention of damages, corrosion, deterioration, shortages, pilferage and loss in transit or storage.

19.2 In case of shipment by sea, the packing shall be sea-worthy and of international standards.

19.3 Packing List shall be submitted as per standard format along with advance set of documents for claiming payment which shall also indicate:-

a) Packing size.
b) Gross weight and net weight of each package.
c) Contents of the package with quantity of each item separately.

19.4 The number of each package in a shipment shall be shown in fraction, numerator showing number of the package and the denominator showing total number of packages in a lot I consignment. The packages number shall be generally prepared in the sequence in which they will be required for erection.

19.5 Each package delivered under the Contract shall be marked by and at the expense of the supplier and such marking must be distinct and in English language (all previous irrelevant markings being carefully obliterated). Such marking shall

show the description and quantity of contents, the name and address of consignee. the gross weight and net weight of the package, the name of the Contractor with a distinctive number of mark sufficient for purposes of identification. All markings shall be carried out with such materials as to ensure quickness of drying. fastness and indelibility. Each equipment or parts of equipment shall, when shipped or railed or otherwise dispatched be tagged with reference to the assembly drawings and corresponding part numbers. Each bale or package shall contain a packing note quoting specifically the name of the Contractor, the number and date of contract and the name of the office placing the contract, nomenclature of the stores and include a schedule of parts for each complete equipment giving the part numbers with reference to the assembly drawing and the quantity of each part, drawings nos. and tag numbers.

19.6 Besides wherever necessary, packing shall bear a special marking " TOP", " BOTTOM", "DO NOT TURN OVER", "KEEP DRY", "HANDLE WITH CARE".etc.

19.7 All packing cases, containers (excluding marine container), packing and other similar materials shall be new.

19.8 Notwithstanding anything stated in this clause, the Contractor shall be entirely responsible for loss, damage or depreciation or deterioration to the materials & supplies due to faulty and/or insecure packing.

19.9 Each and every package box shall be marked with the following, as a minimum:

(i). Name and address of Consignee:

(ii). Project reference:

(iii). Contract No.:

(iv). Packing No.: (1110. 2110, 3110 ..... when there are 10 packages For one consignment)

(v). Net Weight/Gross Weight:

(vi). Port of Loading:

(vii). Destination Port

(viii). Packing Mark: [symbols indicating "TOP" and other special markings as indicated above.

(ix). Type of Equipment:

"E" (for Equipment supply)

"T' (for Tools & Tackles)

"S" (for Mandatory Spares)

19.10 **PACKING FOR SPARES**

19.10.1 The commissioning spares shall be properly packed separately in separate box and each spare shall be properly tagged giving details (to match the description given in the packing slip) to facilitate their proper identification. Three copies of packing list is to be kept inside the box and one copy in a special packet at the outer side of the Box.

19.10.2 The Mandatory spares shall be properly packed separately in separate box indicating Mandatory Spares in bold letters and each spare shall be properly tagged giving details i.e. item number of the equipment in line with the Ultimate Customer/Owner Contract & Number per item (to match the description given in the packing slip) to facilitate their proper identification by ultimate Customer/Owner. Three copies of packing list along with Manufacturing drawing no. Reference. Catalogue reference etc. is to be kept inside the box and one copy in a special packet at the outer side of the Box.

20.0 STORAGE INSTRUCTIONS

Successful tenderer shall be required to submit detailed instructions for storage of supplies within two weeks of date of issue of LOI/ Order/ Contract.

21.0 MATERIAL/GOODS RECEIPT CERTIFICATE

Seller/Contractor shall arrange Material/Goods Receipt Certificate from the consignee, duly signed by Purchaser/Owner Site Engineer after receipt &physical verification of the material, wherever E&C is in the scope of Seller/ Contractor.

For Supplies, Material/Goods Receipt Certificate shall be arranged by BHEL. Vendor to provide copy of receipted LRs to enable BHEL to obtain MRC from site.

22.0 CONSIGNEE'S RIGHT OF REJECTION

22.1 Notwithstanding any approval of Purchaser or Engineer in respect of stores or materials or other particulars or work or workmanship involved in performance of order/contract (with or without any test carried out by Seller/Contractor or Inspection Agency or under direction of Contract Engineer), and notwithstanding delivery of the stores where so provided to the consignee, it shall be lawful for the consignee, on behalf of the Purchaser, to reject the stores or any part/ portion of consignment thereof, within 30 days after actual delivery at the stipulated place or

destination, if such stores or part/ portion of consignment thereof is not in conformity with terms and conditions of order/contract whether on account of any loss, storage, deterioration or damage before despatch or otherwise, whatsoever.

22.2 Rejected goods or materials shall be removed by Seller/Contractor within a period of 15 days from the date of receipt of notice of such rejection. The expenses to be incurred in respect thereof shall be borne entirely by the Seller/Contractor.

23.0 RISK IN STORES (FOR E&C CONTRACTS)

Seller/ Contractor shall perform the order/ contract in all respects in accordance with terms and conditions thereof. Stores and every constituent part thereof, whether in possession or control of the Seller/Contractor, his agents or servants, or a carrier, or in joint possession of Seller/ Contractor, his agent or servants and Purchaser, his agents or servants, shall remain in every respect at the risk of Seller/Contractor until their actual delivery to consignee at the stipulated place or destination or where so provided in acceptance of offer, until their delivery to a person specified by Purchaser as interim consignee for the purpose of despatch to the consignee. Seller/Contractor shall be solely responsible for all losses, destructions, damages or deterioration to the stores from any cause whatsoever, while the stores await dispatch after approval by the Inspection Agency.

24.0 SHORTAGES/DAMAGES

24.1 FOR SUPPLY PACKAGES

a) Shortages in sound cases shall be replenished free of cost by the vendor, as early as possible.

b) For shortages/damages during transit/ handling at site, vendor shall supply replacements, as early as possible, at the old contractual rates upon intimation to vendor within one months of receipted LR.

24.2 FOR E&C PACKAGES

Any shortages or damages during unloading and handling at site, including at the time of erection and commissioning, shall be made good by the Seller/ Contractor at his risk and cost, to meet the project schedule. In case of faults/discrepancies in any material, component, sub-assembly, assembly, etc., the same shall be supplied/replenished free of cost to enable the equipment to be put to service.

25.0 CONFIDENTIALITY

Seller/Contractor shall, at all times, undertake to maintain complete confidentiality of all data, information, software, drawings & documents, etc. belonging to the

Purchaser and also of systems, procedures, reports, input documents, manuals, results and any other company documents discussed and/or finalised during the course of execution of order/contract.

26.0 DEFAULT/BREACH OF CONTRACT, INSOLVENCY AND RISK PURCHASE

26.1 If Seller/Contractor fails to deliver goods or materials or any installment thereof within the period(s) fixed for such delivery or delivers goods or materials not of the contracted quality and failing to adhere to the contract specifications or at any time repudiates or otherwise abandons the contract before expiry of such period or refuses or is unable to supply goods or materials covered by the Order/Contract either in whole or in part or otherwise fails to perform the Order/Contract or commits any breach of Order/Contract not herein specifically provided for or in the event of the death or insanity or if the Seller/Contractor being an individual or if a firm on a partnership thereof, shall at any time, be adjudged insolvent or shall have a receiving order for administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any assignment of the Order/Contract or enter into any arrangement or composition with his creditors or suspend payment or if the firm is dissolved under the Partnership Act or if the Seller/Contractor being a company is wound up voluntarily or by order of a Court or a Receiver, Liquidator or Manager on behalf of the debenture holders and creditors is appointed or circumstances shall have arisen which entitles the Court of debenture holder and creditors to appoint a receiver, liquidator or manager, the purchaser without prejudice to his right to recover any expenses, losses or damages to which the Purchaser may be put to incur or sustain by reason of Seller/Contractor's default or breach of Order/Contract, Purchaser shall be entitled to cancel the Order/Contract either in whole or portion thereof without compensation to Seller/Contractor and if the Purchaser so desires, may procure upon such terms and in such manner as deemed appropriate, stores not so delivered or others of similar description where stores exactly complying with particulars are not, in the opinion of the Purchaser, which shall be final, readily procurable, at the risk and cost of the Seller/Contractor and the Seller/Contractor shall be liable to the Purchaser for any excess costs provided that the Seller/Contractor shall continue the performance of the Order/Contract to the extent not cancelled under the provisions of this clause. The Seller/Contractor shall on no account be entitled to any gain on such repurchases.

Except for Clause 26.2, vendor's maximum liability will be limited to the total contract value including taxes, duties and freight.

26.2 Recovery on account of purchases made by Purchaser at the risk and cost of Seller/ Contractor shall be worked out as follows:

Excess of new purchase cost over old purchase cost, where the total value of new PO is more than total value of old PO.

27.0 TERMINATION OF CONTRACT

27.1 Purchaser shall have the right to cancel Order/Contract, wholly or in part, in case they are obliged to do soon account of any decline, diminution, curtailment or stoppage of their business and in that event, the Seller/Contractor compensation claim shall be settled mutually.

27.2 Purchaser shall have the right to cancel order/contract at the risk and cost of Seller/Contractor in case either the Seller/Contractor himself or any of his representative or agent is found to have been a previous employee of the Purchaser immediately before retirement and has within a period of two years of such retirement accepted the employment of the Seller/Contractor either as a Seller/Contractor or as an employee without having obtained prior permission of Purchaser.

27.3 In case of cancellation of main supply order/ contract, all other associated orders/ contracts like mandatory spares/ recommended spares/ E&C/ supervision of E&C would also get cancelled.

28.0 TRANSFER, SUB-LETTING/ASSIGNMENT/SUB-CONTRACTING

28.1 Seller/Contractor shall not sublet, transfer or assign order/contract or any part thereof or interest therein or benefit or advantage thereof save without the prior consent in writing of Purchaser. In the event of Seller/Contractor sub-letting, transferring or assigning order/contract or any part thereof or interest therein or benefit or advantage thereof without such permission, the Purchaser shall be entitled to cancel the Order/Contract and to purchase the stores from elsewhere at risk and costs of Seller/Contractor and the Seller/Contractor shall be liable for any loss or damage which Purchaser may sustain in consequence of or arising out of such risk purchase.

28.2 If Seller/Contractor is an individual or proprietary concern and the individual or the proprietor dies or the partnership is dissolved or substantially affected, then unless the Purchaser is satisfied that legal representative of individual seller/contractor or proprietor of proprietary concern and surviving partners of partnership firm are capable of carrying out and completing the order/contract, the Purchaser shall be entitled to cancel the order/ contract as to its incomplete portion

and without being in any way liable to payment of any compensation to estate of seller/contractor and/or to surviving partners of seller's/contractor's firm on account of cancellation of the order/contract.

28.3 Decision of Purchaser that legal representatives of deceased seller/contractor or surviving partners of the seller's/contractor's firm can not carry out and complete the order/contract shall be final and binding on the parties hereto.

28.4 Terms and Conditions shall not get affected in case of merger/amalgamation/takeover/re-arrangement etc.

29.0 FORCE MAJEURE

29.1 Notwithstanding anything contained in Clause 13.0, if at any time during the continuance of the Order/Contract, the performance in whole or in part by either party of any obligations under the Order/Contract shall be prevented or delayed by reason of any war hostilities, acts of the public enemy, restrictions by Govt. of India, civil commotion, sabotage, fires, floods, explosion, epidemics, quarantine restrictions, strike, lock-outs, or acts of God (hereinafter referred to as 'event'), then, provided notice of the happening of such event is given by either party to the other within fifteen (15) days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate the Order/Contract nor shall have any claim for damages against each other in respect of such non-performance and delay in performance. Performance under the Order/Contract shall be resumed immediately after such event has come to an end or ceased to exist and decision of Purchaser as to whether the deliveries have to be resumed or not shall be final, conclusive and binding on the parties hereto.

29.2 In the event of the parties hereto not able to agree that a force majeure event has occurred, the parties shall submit the disputes for resolution pursuant to the provisions hereunder, provided that the burden of proof as to whether a force majeure event has occurred shall be upon the party claiming such an event.

29.3 Not-withstanding the above provisions, Purchaser shall reserve the right to cancel the Order/Contract, wholly or partly, in order to meet the overall schedule and make alternative arrangements for completion of delivery and other schedules.

30.0 INDEMNIFICATION

Seller/Contractor shall fully indemnify and keep indemnified the Purchaser against all claims of whatsoever nature arising during the course and out of the execution of this Order/Contract.

31.0 SETTLEMENT OF DISPUTES

31.1 Except as otherwise specifically provided in the Order/Contract, all disputes concerning questions of the facts arising under the Order/Contract, shall be decided by Purchaser, subject to written appeal by the Seller/Contractor to the Purchaser, whose decision shall be final.

31.2 Any dispute or difference shall be, to the extent possible, settled amicably between the parties hereto, failing which the disputed issues shall be settled through arbitration.

31.3 Seller/Contractor shall continue to perform the order/contract, pending settlement of dispute(s).

32.0 ARBITRATION & CONCILIATION

32.1 Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the parties; or, in relation to interpretation of any provision of the contract; or, in any manner touching upon the Contract, then, either party may, by a notice in writing to the other party refer such dispute or difference to the sole arbitration of an arbitrator appointed by head of the BHEL Unit/Region/Division issuing the Contract.

32.2 The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties.

32.3 Subject as aforesaid, the provisions of arbitration and conciliation act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be **Bangalore.** The cost of arbitration shall be borne as per the award of the Arbitrator.

32.4 Subject to the arbitration in terms of Clause 32.0 above, the Courts at **Bangalore** shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract.

32.5 Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligations under this contract with due diligence and expedition in a professional manner except where the contract has been terminated by either party in terms of this Contract.

32.6 In case of contract with public sector enterprise (PSE) or a government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either party for arbitration to the sole arbitrator in the Department of public Enterprises to be nominated by the secretary to the government of India in-charge of the Department of public enterprises. The arbitration and Conciliation act, 1996 shall not be applicable to arbitration under this clause the award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the law secretary, department of legal affairs, Ministry of law and justice, Government of India. Upon such reference the dispute shall be decided by the law secretary or the special secretary or Additional secretary when so authorized by the law secretary, whose decision shall bind the parties hereto finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator."

33.0 LAWS GOVERNING THE CONTRACT

Contract, including all matters connected with contract, shall be governed by the Indian Law, both substantive and procedural, for the time being in force including modification thereto, and shall be subject to the exclusive jurisdiction of the Indian courts at Bangalore.

34.0 JURISDICTION OF COURT

Courts at Bangalore shall have exclusive jurisdiction to decide the dispute, if any, arising out of or in respect of the contract(s) to which these conditions are applicable.

35.0 ORDER OF PRECEDENCE

In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:

1. Amendments/Clarifications/Corrigenda/Errata etc issued in respect of the tender documents by BHEL.

2. Notice Inviting Tender (NIT)

3. Price Schedule

4. Special Conditions of Contract (SCC)

5. Technical specification & scope of work

6. General Conditions of Contract (GCC)

36.0 SUPPLIER PERFORMANCE MONITORING AND RATING SYSTEM

Seller/Contractor's performance will be evaluated as per Supplier Performance Monitoring and Rating System of BHEL. Please refer BHEL website www.bhel.com for details.

37.0 DEALING WITH BANNED SUPPLIERS/ CONTRACTORS IN BHEL

Offers of the bidders who are on the banned list, as also the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.

ANNEXURE No.	DESCRIPTION
I	OFFER SUBMISSION AS PER NIT
II	DEVIATION SHEET COST OF WITHDRAWAL)
III	DECLARATION
IV	CONTRACT PERFORMANCE BANK GUARANTEE
V	GUIDELINES FOR FOREIGN SUPPLIERS AND INDIAN AGENTS OF FOREIGN SUPPLIERS
VI	REQUEST FOR ISSUE OF FORM-C
VII	NEFT DETAILS
VIII	LOADING CRITERA
IX	INTEGRITY PACT
X	LIST OF CONSORTIUM BANKS
XI	REVERSE AUCTION GUIDLINES
XII	NO DEVIATION FORMAT
XIII	AUTHORISED SIGNATORY
XIV	FORMAT FOR POWER OF ATTORNEY
XV	RAB FORMAT FOR E&C
XVI	INDEMNITY BOND
XVII	CONSORTIUM AGREEMENT
XVIII	VENDOR PARTICULARS & LOGISTICS INFORMATION
XIX	NON DISCLOSURE AGREEMENT
XX	

ANNEXURE-I

(To be filled up by the Bidder)

Ref. No.: Date :

M/s Bharat Heavy Electricals Ltd.,
Electroporcelains Division
Prof. CNR Rao Circle
Malleshwaram
Bangalore - 560012

Attention : Shri

Dear Sir,

1 Having examined the tender documents against your tender Enquiry No _____dated _____ and having understood the provisions of the said tender documents and having thoroughly studied the requirements of BHEL related to the work tendered for, in connection with _____(name of work & project site), we hereby submit our offer for the proposed work in accordance with terms and conditions mentioned in the tender documents, at the prices quoted by us in your price schedule format and as per the indicated delivery schedule.

2. If the work or any part thereof is awarded to us, we undertake to submit security-cumcontract performance bank guarantee as per your requirement.

3. We have annexed to this tender the following documents:-

Part-l (Techno Commercial Bid) - in a properly sealed cover (uploaded in website in case of e-procurement).

a) Complete Techno-Commercial Offer.
b) Un-priced copy of deviation sheet (cost of withdrawal) – Annexure-II
c) Un-priced copy of Price Schedule using format given by BHEL.
d) Any other documents (please specify).

Part-ll (Price Bid along with Priced Annexure-II) - in a separate, properly sealed cover, in the format given by BHEL (uploaded in website in case of e-procurement).

Thanking you,

Yours faithfully,

(Signature of the bidder with Name, Designation and Company's Seal)

ANNEXURE - III

DECLARATION

It is hereby declared that the original/ revised* price bid for _____

_____ (Name of Package) for _____ project is complete in all respects and contains prices for complete scope of supply, including tests etc., as per BHEL's requirement. If in the original/ revised* price bids where itemized price is not available for any part of scope of supply, including tests etc. for completion of the package, the same should be treated to have been included in our original/ revised* price bid.

It is also agreed that no further chance for seeking clarification/ confirmation to any missing point will be necessary.

Absence of itemized prices against some items does not mean that they are not included. Even though itemized prices are given for major items, those items which are not specially shown, are also included to meet the entire system as per BHEL requirements.

Signature of authorized Representative Name
and Designation:
Name & Address of the Bidder
Date

Forwarded to:
BHARAT HEAVY ELECTRICALS LTD
Electroporcelains Division
Prof. CNR Rao Circle
Malleshwaram
Bangalore - 560012

* (Please delete whichever is not applicable

ANNEXURE - IV

PROFORMA OF PERFORMANCE BANK GUARANTEE
(FOR INDIEGNOUS PURCHASE ORDERS)

Note: 1) To be executed in Rs 100/- Non-Judicial stamp paper.
2) To be submitted to Purchase Dept. directly by the Banker

PERFORMANCE GUARANTEE
(PROFORMA OF BANK GUARANTEE)

THIS DEED OF GUARANTEE made and executed on the _____ day of _____(month) _____(year), by the _____ (Bank), registered under the Companies Act 1956/Nationalised Bank constituted under the Banking Companies (acquisition and transfer of undertakings) Act/ constituted under the State Bank of India Act / Subsidiary Banks Act, having its registered / head office at _____ (Hereinafter called 'guarantor ' which term shall mean and include its successors and assigns)

IN FAVOUR OF BHARAT HEAVY ELECTRICALS LIMITED

a company registered under the companies Act, 1956 having its registered office at BHEL House at Siri Fort , New Delhi-100 049 and its Electroporcelains Division at Malleswaram, Bangalore-12 (hereinafter referred to as the 'Company' Which term shall include its successors and assigns):

Whereas the company has placed an order on _____ (State the name of the Seller- company / firm and its address) (hereinafter referred to as the 'Supplier' which term shall mean and include its liquidators, successors and assign) for the supply of system under Purchase Order No_____Dt _____.

AND WHEREAS the supplier has agreed to supply the materials and carryout the works as detailed and in accordance with the terms set out in the said order.

AND WHEREAS the Contract inter-alia provides that the SUPPLIER shall furnish to the Company a sum of Rs…..……. (Rupees…….) towards security deposit for due and faithful performance of the CONTRACT in the form and manner specified therein.

AND WHEREAS the SUPPLIER has approached the GUARANTOR and in consideration of the arrangement arrived at between the SUPPLIER and the GUARANTOR, the GUARANTOR has agreed to give the Guarantee as hereinafter mentioned in favour of the

COMPANY.

NOW THIS DEED WITNESSES THAT in pursuance of the above said agreement, the guarantor hereby agrees and covenants with company is as follows :-

1) That during the period this contract of Guarantee remains effectual, the guarantor shall be liable in respect of the amount due and owing to the company in respect of the payments to the extent of Rs _____ (in words) _____ against any loss or damage caused to or suffered by the company by reasons of any breach of the terms of the said Purchase order by the supplier.

2) The Guarantor hereby undertakes to pay the amounts due and payable under this guarantee without any demur, merely on demand from the company intimating that the amount claimed is due by way of loss or damage caused to or suffered or would be caused or suffered by the supplier of any terms contained in the said Purchase order. Any such demand made on the guarantor shall be conclusive as regards the amount due and payable by the Guarantor irrespective of the fact whether the Supplier admits or denies.

3) The Guarantor further agrees that the agreement herein contained shall remain in force and effect till all the supplies to be made / Works to be performed / Services to be rendered under the said Purchase order are completed to the entire satisfaction of the company or till company certifies that the terms and conditions of the said order have been fully and properly carried out by the said supplier and accordingly discharges the Guarantee. Unless a demand or claim under this guarantee is made on the guarantor in writing on or before the expiry of claim period indicated in clause 6 below , the guarantor shall be discharged from all the liability under this guarantee thereafter.

4) The guarantor further agrees with the company that the company shall have the fullest liberty without the consent of the guarantor and without effecting in any manner the obligations of the guarantor hereunder to vary any of the terms of the said order or extend the time of performance by the said supplier from time to time or refrain from exercising the power exercisable by the company against the said supplier or to forebear or omit to enforce any of the terms and conditions relating to the said order, and the guarantor shall not be relieved of its liability in whole or in part , by reason of any act, commission or forbearance on the part of the company or by reason of any such variation, or extension being granted to the said supplier or by reason of any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving the guarantor.

5) The guarantor undertakes not to revoke this guarantee during the period it is in force except with the previous consent of the COMPANY in writing, and agree that any liquidation or winding up or dissolution or any change in the constitution of the

SUPPLIER or the GUARANTOR shall not discharge the GUARANTOR's liability hereunder.

6) Notwithstanding anything herein above contained, the liability of the guarantor under these presents is restricted to Rs_____. The guarantee shall be in force till its expiry on _____. Unless a demand is made on the guarantor within THREE months from the date of expiry, all the liability of the guarantor under this guarantee shall stand fully discharged. The decision of the claimant in regard to breach of contract is final and binding on the Bank.

(Seal of the Bank to be affixed)

NOTES: (NOT TO BE TYPED)

1. A minimum of TWO Bank Official Signatories
2. Signatories to sign on all pages of the Bank Guarantee
3. Any correction to be validated by the Banker Signatories
4. One common e-mail ID of issuing branch and e-mail & contact no of at least one issuing official should be provided on PBG forwarding letter.

ANNEXURE – V

FOREIGN SUPPLIERS & INDIAN AGENTS OF FOREIGN SUPPLIERS

1. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods/ services. However, if the foreign Principal desires to avail the services of an Indian Agent, then the foreign Principal should ensure compliance to regulatory guidelines – which require mandatory submission of an Agency Agreement.

2. It shall be incumbent on the Indian Agent and the foreign Principal to adhere to the relevant guidelines of Government of India, issued from time to time.

3. An Indian Agent of foreign Origin Equipment Manufacturer (OEM)/ Principal is an individual, a partnership, an association of persons, a private or public company, that carries out specific obligation(s) towards processing of BHEL tender or finalization or execution of BHEL's contract on behalf of the foreign supplier.

4. The Agency Agreement should specify the precise relationship between the foreign OEM/ Principal and their Indian Agent, and their mutual interest in the business. All services to be rendered by the Agent/ Associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign Supplier/ Indian Agent. Any payment which the Agent or Associate receives in India or abroad from the OEM/ Principal, whether as commission or as general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.

5. Any agency commission to be paid by BHEL to the Indian Agent shall be in Indian currency only.

6. Tax deduction at source is applicable to the agency commission paid to the Indian Agent as per the prevailing rules.

7. In absence of any Agency Agreement, BHEL shall not deal with any Indian Agent (authorized representative/ associate/ consultant, or by whatever name called) and shall deal directly with the foreign OEM/ Principal only for all correspondence and business purposes.

8. In a tender, either the Indian Agent on behalf of the foreign OEM/ Principal or foreign OEM/ Principal itself can bid but both cannot bid simultaneously for the same item/ product in the same tender.

9. If an Agent submits bid on behalf of one OEM/ Principal, the same Agent shall not submit a bid on behalf of another OEM/ Principal in the same tender for the same item/ product.

10. The "Guidelines for Indian Agents of Foreign Suppliers" at Annexure–A shall apply in all such cases.

11. The supply and execution of Purchase Order/ Contract (including indigenous supplies/ services) shall be in the scope of foreign OEM/ Principal. The foreign OEM/ Principal should submit their offer inclusive of all indigenous supplies/ services and

evaluation will be based on the 'Total Cost to BHEL'. In case foreign OEM/ Principal recommends placement of order(s) towards indigenous portion of supplies/ services on Indian supplier(s)/ agent on their behalf, the credentials/ capacity/ capability of the Indian supplier(s)/ agent to make the supplies/ services shall be checked by BHEL as per its extant guidelines of Supplier Evaluation, Approval & Review Procedure (SEARP) before opening of price bids. In this regard, details may be checked as per Annexure–B. It will be responsibility of the foreign OEM/ Principal to get acquainted with the evaluation requirements of Indian supplier/ agent as per SEARP available on www.bhel.com.

The responsibility for successful execution of the contract (including indigenous supplies/ services) lies with the foreign OEM/ Principal. All bank guarantees to this effect shall be in the scope of the foreign OEM/ Principal.

Annexure–A

Guidelines for Indian Agents of Foreign Suppliers

1.0 There shall be compulsory registration of agents for all Global (Open) Tenders and Limited Tenders. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.

1.1 Registered agents will file an authenticated photocopy duly attested by a Notary Public/ Original certificate of the Principal confirming the Agency Agreement and giving the status being enjoyed by the Agent and the commission/ remuneration/ salary/ retainership being paid by the Principal to the Agent before placement of order by BHEL.

1.2 Wherever the Indian representatives have communicated on behalf of their Principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.

2.0 Disclosure of particulars of agents/ representatives in India (if any)

2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:

2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India, if any, and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.

2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.

2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.

2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:

2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign Principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.

2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.

2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.

2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees, on expiry of 90 days after the discharge of the obligations under the contract.

2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this, there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

Annexure–B

This format is applicable only to Indian Suppliers/ Agents supplying indigenous portion of Foreign Purchases.

In all other cases, extant guidelines of SEARP, 2010 are to be followed.

SEARP (SRF) Clause No.	Detail
	Name & address of the firm
1.0	**Products/ Systems / Services being considered for**
2.0	**General Information**
2.2	Name of Chief Executive
2.3	Details of authorized signatory
3.0	**Ownership Information**
3.1	Type of Firm
3.2	Nature of Business *Attach **authorization letter** and **agency agreement** from Principal (from whom capital equipment is procured)* *Attach copy of declaration from Foreign Principal for **total guarantee/ warranty of indigenous supplies***
3.3	Year of establishment
3.4	Year of commencement of business
4.0	**Registration particulars**
4.1	Permanent Account No.
4.2 / 4.3	Sales Tax / TIN No.

4.6	Service Tax No. (in case of Erection & Commissioning)
5.0	**Organisational strength**
6.0	**Other particulars**
6.1	If the company is already registered with other BHEL Units
6.2	Directors/ Partners, if related to any BHEL employee
6.9	If any Ex-BHEL personnel employed by the Company
6.12	Details of pending legal issues with BHEL
6.13	Bank Account information
9.0	**Financial information**
9.6	Sales/ Turnover details of last 3 years (or from the date of incorporation, whichever is less)

ANNEXURE- VI

Request for Issue of Form-C

FINANCIAL YEAR ----------

Supplier Name & Adress	
Quarter-wise details of invoices for issuance of 'C' forms for a Financial Year	

Quarter	Seller Tin	Invoice No	Invoice Date	Net Value	Tax amount	Commodity Description	Purchase Order No	Purchase Order Dt
Q-1								

Quarter	Seller Tin	Invoice No	Invoice Date	Net Value	Tax amount	Commodity Description	Purchase Order No	Purchase Order Dt
Q-2								

Quarter	Seller Tin	Invoice No	Invoice Date	Net Value	Tax amount	Commodity Description	Purchase Order No	Purchase Order Dt
Q-3								

Quarter	Seller Tin	Invoice No	Invoice Date	Net Value	Tax amount	Commodity Description	Purchase Order No	Purchase Order Dt
Q-4								

ANNEXURE-VII

NEFT Application Form

Vendors Name	
Vendor Address	
BANK NAME	
BANK BRANCH	
BANK ADDRESS	
BANK BRANCH CODE	
BANK 9 DIGIT MICR CODE	
BANK NEFT CODE(IFC)	
BANK SWIFT CODE	
BANK PHONE	
ACCOUNT NAME	
ACCOUNT TYPE	
ACCOUNT NO.	
PAN NO.	

SERVICE TAX NO.	
TIN NO.	
E-MAIL ID	

Authorised Signatory Seal

Above details are to be submitted on company's letterhead. The details may either be attested by vendor's bankers or accompanied by a cancelled cheque leaf with IFSC code & A/c no. Printed on it.

Undertaking to report immediately any changes in the above to be submitted in company's letterhead.

ANNEXURE-VIII

LOADING CRITERIA

No deviations in GCC terms and conditions are generally acceptable, and bids with deviations are liable to be rejected. However, in exceptional circumstances, BHEL may accept deviations with Loading as given below:

A) PAYMENT TERMS

1. Payment will be released within 45 days after receipt of complete documents as per order/ contract.

Loading will be done for vendors seeking earlier payment w.r.t. above, for the value and the period of deviation, as per Clause 17.0 of 'Instructions to Bidders'.

Time periods assumed by BHEL for a few activities are as follows:

Payment through Bank	– 30 days from receipt of invoice + documents.
Receipted LR	– 30 days from despatch.
Material Receipt Certificate (MRC)	– 120 days from despatch.

However, for Foreign Purchase, CAD at sight and Confirmed LCs are not permitted.

B) BANK GUARANTEE `

Non submission of Bank Guarantee – No deviation is permitted, if applicable as per NIT.

C) LIQUIDATED DAMAGES

If maximum limit asked for is 10% or 5% of Undelivered Portion – 10% value of the total quoted price including taxes, duties & freight.

If maximum limit asked is less than 10 % of contract value loading shall be to the extent to which not agreed by bidder (at offered value) .

D) PRICE VARIATION CLAUSE (PVC)

PVC Instead of Firm Price – Maximum ceiling of PVC as demanded by vendor.

F) NO DEVIATION IS ALLOWED IN RISK PURCHASE/RISK & COST CLAUSE.

ANNEXURE-X

List of Consortium Banks			
Nationalised Banks		**Public Sector Bank**	
1	Allahabad bank	20	IDBI
2	Andhra bank		
3	Bank of Baroda	**Foreign banks**	
4	Canara Bank	21	CITI Bank N.A
5	Corporation bank	22	Deutsche Bank AG
6	Central bank	23	HSBC
7	Indian Bank	24	Standard Chartered Bank
8	Indian Oversea Bank	25	J P Morgan
9	Oriental bank of Commerce		
10	Punjab National Bank		
11	Punjab & Sindh Bank	**Private banks**	
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank
19	Vijaya Bank		

ANNEXURE-XI

Terms & Conditions of Reverse Auction

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1 For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.

2 Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid" in the Reverse Auction. Non-submission of „online sealed bid" by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

3 BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.

4 In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.

5 Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.

6 Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.

7 In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) etc. for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.

8 Reverse auction will be conducted on scheduled date & time.

9 At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

10 The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.

11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL"s standard practice.

12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction", which will be communicated before the Reverse Auction.

13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action *as per extant BHEL guidelines*, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

15. In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

16. Updates:-

16.1 "BHEL reserves the right to go for Reverse Auction (RA) (GUIDELINES as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "Process Compliance Form" (to the designated service provider) as well as 'online sealed bid' in the Reverse Auction. Non-submission of Process Compliance Form or Online Sealed Bid by the agreed bidders will be considered as tempering of the tender process & will invite action by BHEL as per the extent guidelines for suspension of business dealings with suppliers/contractors (as available on www.bhel.com).

The bidders have to necessarily submit the online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L-1 bidder in RA, if conducted, shall also be opened after RA & the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition & undertakes to execute the contract on thus awarded rates.

If it is found that L-1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item, the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be consider as fraud & will invite action by BHEL as per the extent guidelines for suspension of business dealings with the suppliers/contractors (as available on www.bhel.com).

As a reminder to bidders, system will flash the following message (in RED color) during the course of 'online sealed bid':

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL"

ANNEXURE-XII

FORMAT FOR NO DEVIATION CERTIFICATE

(To be submitted in the bidder's letter head)

TO
BHARAT HEAVY ELECTRICALS LIMITED,
Electroporcelains Division
Prof. CNR Rao Circle,
Malleshwaram Bangalore – 560012

Sub :	No deviation certificate
Job :	----
Ref :	Your enquiry No -
	All the pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms &conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null &void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.
Thanking you,

Yours faithfully,
(Signature, date & seal of authorized representative of the bidder)

ANNEXURE-XIII

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,
(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub : Declaration by Authorised Signatory

Ref : 1) NIT/Tender Specification No: .....
2) All other pertinent issues till date

I /We, hereby certify that all the information and data furnished by me with regard to the above Tender Specification are true and complete to the best of my knowledge. I have gone through the specifications, conditions, stipulations and all other pertinent issues till date, and agree to comply with the requirements and Intent of the specification.

I further certify that I am authorised to represent on behalf of my Company/Firm for the above mentioned tender and a valid Power of Attorney to this effect is also enclosed.

Yours faithfully,

(Signature, Date & Seal of Authorized
Signatory of the Bidder)

Date:

Enclosed : Power of Attorney

ANNEXURE-XIV

POWER OF ATTORNEY for SUBMISSION OF TENDER/SIGNING CONTRACT

AGREEMENT

(To be typed on non judicial Stamp Papers of appropriate value as applicable and Notarised)

KNOW ALL MEN BY THESE PRESENTS, that I/We do hereby make, nominate, constitute and appoint Mr , whose signature given below herewith to be true and lawful Attorney of M/s_____ hereinafter called 'Company', for submitting Tender/entering into Contract and inter alia, sign, execute all papers and to do necessary lawful acts on behalf of Company with M/s Bharat Heavy Electricals Ltd, Electroporcelains Division, Bangalore in connection with vide Tender Specification
No dated

And the Company do hereby agree to ratify and confirm all acts, deeds, things or proceedings as may be lawfully done by the said attorney and by or on behalf of the company and in the name of the company, by virtue of the powers conferred herein and the same shall be binding on the company and shall have full force and effect.

IN WITNESS WHEREOF the common seal of the company has been hereunto affixed in the manner hereinafter appearing on the document.

Dated at _____ , this _____ day of _____

Director/CMD/Partner/Proprietor

Signature of Mr (Attorney)

Attested by:
Director/CMD/Partner/Proprietor
Witness

Notary Public

ANNEXURE-XVI

INDEMNITY BOND

(To be executed on a Non Judicial Stamp Paper of the requisite value as per Stamp Duty prevalent in the respective State)

This Indemnity Bond executed by <name of company> having their Registered Office at <xxxxxxxxxxx> in favour of M/s Bharat Heavy Electricals Limited, a Company incorporated under the Companies Act, 1956, having its Registered Office at BHEL House, Siri Fort, Asiad, New Delhi - 110049 through its Unit at Electroporcelains Division , Bangalore (Hereinafter referred to as the Company).
And whereas the Company has entered into a Contract with M/s xxxxxxxxx, the executants of this Deed (hereinafter referred to as the Contractor) as its contractor in respect of the work of "xxxxxxxxxxxxxxxxxxxxxxxxxx".

AND WHEREAS under the provisions of GCC further stipulates that the Contractor shall indemnify the Company against all claims of whatever nature arising during the course of execution of Contract including defects liability period of <xx Months > i.e till <xx xx xxxx>

Now this deed witness that in case the Company is made liable by any Authority including Court to pay any claim or compensation etc. in respect of all labourers or other matters at any stage under or relating to the Contract with the Contractor, the Contractor hereby covenants and agrees with the Company that they shall indemnify and reimburse the Company to the extent of such payments and for any fee, including litigation charges, lawyers' fees, etc, penalty or damages claimed against the Company by reason of the Contractor falling to comply with Central/States Laws, Rules etc, or his failure to comply with Contract (including all expenses and charges incurred by the Company).

The Contractor further indemnifies the Company for the amount which the Company may be liable to pay by way of penalty for not making deductions from the Bills of the Contractor towards such amount and depositing the same in the Government Treasury.

The Contractor further agree that the Company shall be entitled to with hold and adjust the Security Deposit and/or with hold and adjust payment of Bills of Contractor pertaining to this Contract against any payment which the Company has made or is required to make for which the Contractor is liable under the Contract and that such amount can be withheld, adjusted by the Company till satisfactory and final settlement of all pending matters and the Contractor hereby gives his consent for the same.

The Contractor further agrees that the terms of indemnity shall survive the termination or completion of this contract.

The contractor further agrees that the liability of the contractor shall be extended on actual basis notwithstanding the limitations of liability clause, in respect of:

1. breach of terms of contract by the contractor
2. breach of laws by the contractor
3. breach of Intellectual property rights by the contractor
4. breach of confidentiality by the contractor

Nothing contained in this deed, shall be construed as absolving or limiting the liability of the Contractor under said Contract between the Company and the Contractor. That this Indemnity Bond is irrevocable and the condition of the bond is that the Contractor shall duly and punctually comply with the terms and the conditions of this deed and contractual provisions to the satisfaction of the Company.

In witness where of M/s xxxxxxxxxxxxx these presents on the day, month and year first, above written at xxxxxxxx by the hand of its signatory Mr. xxxxxxxxxxx.

Signed for and on behalf of
M/s
xxxxxxxxxxxxxxx

Witness:

ANNEXURE-XVII

Annexure- A

CONSORTIUM AGREEMENT

(To be executed on Rs. 50/- Non - Judicial Stamp Paper)

THIS AGREEMENT is made and executed on ____ day of _____ by and between (1) M/s. _____, represented by Shri_____, designated as _____, having its registered office at _____ , (The First Party, i.e, the Bidder) Company incorporated under the Company's Act 1956 having its registered office at _____ (hereinafter referred to as the "Bidder" which expression shall include its successors, administrators, executors and permitted assigns) and (2) M/s. _____, (The Second Party, i.e, the associates), a company incorporated under _____(Company act), having its registered office at _____ (hereinafter called the "Associates", which expression shall include its successors, administrators, executors and permitted assigns).

WHEREAS, the Electroporcelains Division, one of the Units of M/s. Bharat Heavy Electricals, having its office at Prof. CNR Rao Circle, Opp. Indian Institute of Science, Malleswaram, Bangalore-560 012, A Government of India Undertaking (hereinafter called the "Employer", " which expression shall include its successors, administrators, executors and permitted assigns), proposes to issue / issued a Notice Inviting Tender (hereinafter referred to as NIT), inviting bids from the individual bidders for undertaking the work of "_____(Package name) for _____(Project name) at _____(site location) (hereinafter referred to as the "Project") being set up by M/s. _____ (hereinafter referred to as the " Owner").

AND WHEREAS, the said NIT enables submission of a bid by a Party subject to fulfilment of the stipulations pre-qualification criteria specified in the said NIT.

AND WHEREAS, the Bidder desirous of submitting bid in response to the said NIT for the said Project, and by itself is not meeting all the qualifying the Pre-qualification Criteria specified in the said NIT and in order to fully meet the qualifying requirements of NIT, the Bidder entered into this Consortium Agreement with the Associates.

AND WHEREAS the Bidder and the Associates are contractors engaged in the business of carrying out various items of works. WHEREAS, the two parties have agreed to and constitute themselves into a consortium for the purpose of carrying out the said works relating to this Project, and that the consortium will be continued till the completion of the works in all respects including the performance guarantee period as may be specified in the NIT or Purchase Order/Work Order.

AND WHEREAS, with this consortium Agreement, the Bidder and Associates together meets all the pre-qualification criteria as mentioned in the NIT.

WHEREAS, the parties have agreed to certain terms and conditions which forms a part of this consortium agreement, as mentioned hereinbelow :

NOW therefore, this agreement witnesseth as follows :

1. The Bidder and Associates hereby constitute themselves into a Consortium for the purpose of submitting a Bid and undertaking the said works pursuant to the said NIT as hereinafter stated.

2. The Bidder will be the leader (Lead Partner) and will be responsible for the execution of the entire scope of works and its complete functioning as stated in the NIT.

3. The Bidder shall undertake the entire scope of work as detailed in the NIT jointly with the Associates.

4. The Associates shall undertake their part of work as detailed in the NIT jointly with the Bidder.
5. The Bidder and the Associates hereby declare and confirm that each of them jointly and severally will fulfil the required minimum qualifying requirements as prescribed in the said NIT for the works agreed to be undertaken by them as stated herein above.

6. The Bidder and the Associates also hereby agree that both of them shall be jointly and severally responsible for the completion of the said works as per the schedule. Further, if the Employer and or the Owner sustains any loss or damage on account of non-performance or any breach of contract, both the Bidder and Associates, as a consortium partners, individually and severally undertake to compensate and pay such losses / damages so caused to the Employer and or the Owner on its written demand without any demur, reservation, contest or protest in any manner whatsoever.

7. AND WHEREAS, the Bidder and the Associates, do hereby undertakes to indemnify both the Employer and the Owner to make good any losses/damages sustained by them due to the negligence or any acts of Bidder and or the Associates which results in loss / damages to the Employer / Owner.

8. AND WHEREAS Bidder and the Associates hereby agree that in case of any dispute arising in and out of this consortium agreement shall be dealt in accordance with the provisions of Indian Arbitration and Conciliation Act, 1996 and the place of Arbitration will be at India and the language of Arbitration will be English.

9. AND WHEREAS both the Bidder and the Associates hereby agree and undertake that they shall provide adequate finances, suitable Tools, Plants, equipments, tranctors, trailers, other transportation equipment, other Tools and Plants, Measuring and Monitoring Equipments (MMEs), Men and Machinery etc., for the proper and effective execution of the works to be undertaken by them as specified herein above.

10. AND WHEREAS, it was agreed to interse, between the parties hereto that all the consequential liabilities ec., arising out of any default in the due execution of the said works shall be borne by the consortium leader and or party in default, that is by party in whose area of works default has occurred, provided however, so far as the Employer is concerned, both The bidder and the Associates shall be jointly and severally liable irrespective of their scope of work.

IN WITNESS WHEREOF, the parties above named have signed this agreement on the day month and year first above written at Faridabad.

For and on Behalf of The Bidder

AUTHORISED SIGNATORY ::

OFFICIAL ADDRESS :

COMPANY SEAL

WITNESSES :
1.

2.

For and on Behalf of the Associates

AUTHORISED SIGNATORY ::

OFFICIAL ADDRESS :

COMPANY SEAL

WITNESSES :
1

2

ANNEXURE XVIII

Vendor Particulars & Logistics Information

Vendor's particulars & logistics information (Bidder to give details against each of the provisions)

1. Name of the vendor's executive to deal with this tender / project:-

2. E-mail address of the contact person

3. Telephone no. of the contact person

4. Name of location from where the goods shall be offered for inspection and dispatch

5. Additional logistics information for Imports

6. Bid currency

7. Name of the load port where the goods are offered for Delivery on FOB terms

8. Name of Airport in the country of dispatch for FCA delivery terms

9. Additional freight over FOB price, for delivery on CFR named port in the country of destination, if the Seller decides to bid on CFR / CIF / CPT basis

10. Numbers, Type & size of containers estimated for delivery of Tendered quantity (Applicable where the goods are to be sent in containers)

11. No. of Packages with cumulative gross weight and CBM volume (Applicable for break-bulk shipment)

12. Additional FOB cost for loading the cargo on-board in case of EX-Works or FAS delivery terms

13. Approx. distance in km. from Vendor's works to Port of loading

a Sea port

b Air port

ANNEXURE XIX

NON DISCLOSURE AGREEMENT

I, _____, on behalf of the _____ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with BHEL, EPD on contract is confidential and that the nature of the business of the BHEL, EPD is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL, EPD Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.

- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL, EPD all documents and property of BHEL, EPD, including: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL, EPD's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, EPD and are reasonable given the nature of the business carried on by the BHEL, EPD I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Place:-_____ Date:-_____

Name

Company

Signature

ANNEXURE-I

(To be filled up by the Bidder)

Ref. No.: Date :

M/s Bharat Heavy Electricals Ltd.,
Solar Business Division
Prof. CNR Rao Circle
Malleswaram
Bangalore - 560012

Attention : Shri

Dear Sir,

1 Having examined the tender documents against your tender Enquiry No _____dated _____ and having understood the provisions of the said tender documents and having thoroughly studied the requirements of BHEL related to the work tendered for, in connection with _____ _____(name of work & project site), we hereby submit our offer for the proposed work in accordance with terms and conditions mentioned in the tender documents, at the prices quoted by us in your price schedule format and as per the indicated delivery schedule.

2. If the work or any part thereof is awarded to us, we undertake to submit security cum contract performance bank guarantee as per your requirement.

3. We have annexed to this tender the following documents: -

Part-l (Techno Commercial Bid) - in a properly sealed cover (uploaded in website in case of e-procurement).

a) Complete Techno-Commercial Offer.
b) Un-priced copy of deviation sheet (cost of withdrawal) – Annexure-II
c) Un-priced copy of Price Schedule using format given by BHEL.
d) Any other documents (please specify).

Part-ll (Price Bid along with Priced Annexure-II) - in a separate, properly sealed cover, in the format given by BHEL (uploaded in website in case of e-procurement).

Thanking you,

Yours faithfully,

(Signature of the bidder with Name, Designation and Company's Seal)

ANNEXURE-II: UN PRICE DEVIATION SHEET (COST OF WITHDRAWL)

Tender Description: (To be filled by the vendor): ……

Tender Ref: (To be filled by the vendor)……

NAME OF VENDOR:-

SL NO	VOULME/ SECTION	PAGE NO.	CLAUSE NO.	TECHNICAL SPECIFICATION/ TENDER DOCUMENT	COMPLETE DESCRIPTION OF DEVIATION	COST OF WITHDRAWL OF DEVIATION	PORTION OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWL OF DEVIATION IS APPLICABLE	NATURE OF COST OF WITHDRAWL OF DEVIATION (POSITIVE/ NEGATIVE)	REASON FOR QUOTING DEVIATION	REMARKS
TECHNICAL DEVIATIONS (Fill "NIL" in case of no deviation)										
COMMERCIAL DEVIATIONS (Fill "NIL" in case of no deviation)										

PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE

NAME	**DESIGNATIONS**	**SIGN & DATE**	

NOTES:

1. For self manufactured items of bidder, cost of withdrawl of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
2. For directly dispatchable items, cost of withdrawl of deviation will be applicable on the FOR site price including taxes, duties & freight.
3. All the bidders have to list out all their Technical & Commercial Deviations in detail in the above format only on cost basis (if any). Cost of withdrawal for the deviations, for which, the “Cost of withdrawal” is not specified, shall be taken as NIL.
4. Any deviation not mentioned above and shown separately will not be taken cognizance of.
5. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawl of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable.
6. Bidder shall furnish price copy of above format along with price bid.
7. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
8. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
9. For deviations w.r.t. Payment terms, Liquidated damages, Firm prices and submission of E1/ E2 forms before claiming 10% payment, if a bidder chooses not to give any cost of withdrawl of deviation loading as per Annexure-VIII of GCC, Rev-06 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawl of deviation shall be taken as NIL.
10. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not at all be accepted.
11. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
12. Cost of withdrawl is to be given seperately for each deviation. In no event, bidder should club cost of withdrawl of more than one deviation else cost of withdrawl of each deviation which have been clubbed together shall be considered as NIL.
13. In case nature of cost of withdrawl (positive/negative) is not specified, it shall be assumed as positive.
14. In case of descrepancy in the nature of impact (positive/negative), positive will be considered for evaluation and negative for ordering.

ANNEXURE - III

DECLARATION

It is hereby declared that the original/ revised* price bid for _____

_____ (Name of Package) for _____project is complete in all respects and contains prices for complete scope of supply, including tests etc., as per BHEL's requirement. If in the original/ revised* price bids where itemized price is not available for any part of scope of supply, including tests etc. for completion of the package, the same should be treated to have been included in our original/ revised* price bid.

It is also agreed that no further chance for seeking clarification/ confirmation to any missing point will be necessary.

Absence of itemized prices against some items does not mean that they are not included. Even though itemized prices are given for major items, those items which are not specially shown, are also included to meet the entire system as per BHEL requirements.

Signature of authorized Representative Name and Designation:

Name & Address of the Bidder

Date

Forwarded to:
BHARAT HEAVY ELECTRICALS LTD
Solar Business Division
Prof. CNR Rao Circle
Malleswaram
Bangalore - 560012

* (Please delete whichever is not applicable

ANNEXURE-XII

FORMAT FOR NO DEVIATION CERTIFICATE

(To be submitted in the bidder's letter head)

TO
BHARAT HEAVY ELECTRICALS LIMITED,
Solar Business Division,
Prof. CNR Rao Circle,
Malleswaram Bangalore – 560012

Sub :	No deviation certificate
Job :	----
Ref :	Your enquiry No -
	All the pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms &conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null &void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.
Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

BANK GUARANTEE FOR MOU

In consideration of the **Bharat Heavy Electricals Limited,** having its registered office at **BHEL House, Siri Fort, New Delhi – 110049** the concerned division being **Solar Business Division, Bangalore** (hereinafter called BHEL), having agreed to accept the bid for **Supply & Installation of Modules, Floaters, Anchoring & Mooring and AMC at 3 x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP** submitted by M/s. **XXXX**, (hereinafter called "the said Contractor(s)") the successful L1 Bidder for the pre-bid tie-up.

Under terms and conditions of MOU agreement dated …….. made between BHEL and M/s. **XXXX** (hereinafter called "the said Agreement"), the Contractor(s) has agreed to furnish a Bank Guarantee for Rs. …… (Rupees …… ……), for 1% of the value of the Contractor(s)'s scope as per MOU. This BG shall be valid till a formal Purchase Order is placed on the Contractor(s).

1. We …….. (hereinafter referred to as "the Bank") at the request of (indicate the name of Bank) the Contractor(s) do hereby undertake to pay to BHEL an amount not exceeding Rs. …… against any loss or damage caused to or suffered or would be caused to or suffered by BHEL, by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We …….. (indicate the name of Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from BHEL stating that the amount claimed is due by way of loss or damage caused to or would to or suffered by BHEL by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. ……

3. We …….. (indicate the name of Bank) undertake to pay to BHEL any money so demanded not withstanding any dispute or disputes raised by the Contractor(s) in any suit or processing pending before any court or tribunal relating thereto our liability under these presents being absolute and unequivocal. The payment so made by under this bond shall be valid discharge of our liability for

payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We …….. (indicate the name of Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and the it shall continue to be enforceable till all the dues of BHEL under or by virtue of the said Agreement have been fully paid and its Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharge this guarantee unless a demand or claim under this guarantee is made on us in writing on or before …….. we shall be discharged form all liability under this guarantee thereafter.

5. We …….. further agree with BHEL that BHEL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said Agreement or to extend tim of performance by the said Contractor(s) from time to time or to postpone any time or from time to time any of the powers exercisable by the BHEL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reasons of any such variation, of extension being granted to the said Contractor(s) or for any forbearance, act, or commission on the part of BHEL or any indulgence BHEL to the said conference(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for its provisions, have effect of so relieving us.

   This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

   We …….. (indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of BHEL in writing.

   The address of BHEL of services, correspondence in respect of matters relating to this guarantee shall be:

ADDRESS OF THE CONCERNED DIVISION OF BHEL.

Address of the Bank in full

Dated the ……. Day of ……. 2022.

Pin Code :

Telegraphic Code :

For ……
(Indicate the name of Bank)

Telex No. :

Fax No. :

Witness :

1.

2.

Memorandum of understanding

PROJECT: 3 X100 MW FLOATING SOLAR PV POWER PLANT OF REWA ULTRA MEGA SOLAR LIMITED (RUMSL- A JV BETWEEN SECI AND MP GOVT) AT OMKARESHWAR RESERVOIR, MADHYA PRADESH

This Memorandum of Understanding made on exclusive basis on this day …… between M/s. BHARAT HEAVY ELECTRICALS LIMITED, an existing company registered under the Companies Act, 1956 and having its registered office at BHEL House, Siri fort, New Delhi 110043 (hereinafter called "BHEL", which expression shall repugnant to the context of meaning thereof, include its successors, legal representatives and assigns) of the ONE PART,

AND

M/s……...an existing company having its registered office at ……..……
……..……
……(hereinafter referred to as "the Contractor(s)", which expression shall repugnant to the context of meaning thereof, include its successors and assigns) of the OTHER PART

1. **BHEL will place a single order for Supply & Installation of Modules, Floaters, Anchoring & Mooring and AMC at 3 x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP based on the price and commercial terms finalized with the successful Bidder.**

2. **In case of award of work to BHEL by its CUSTOMER, the Contractor(s) has agreed to carry out scope of work upon quoted price on back-to-back basis and other terms and conditions and deviations as agreed with BHEL.**

3. **WHEREAS Contractor(s) shall furnish all documents / technical details for bid preparation as per NIT requirements. On securing the Order, Performance Bank Guarantee shall also be furnished by the Contractor(s) as per NIT conditions.**

4. **WHEREAS the parties agree that in so far as applicable the rights and obligations of the Main Contract between the CUSTOMER and BHEL become part of the Agreement between BHEL and the Contractor(s) for agreed scope of work.**

5. **NOW THEREFORE, in consideration of the above, the following broad understanding is mutually agreed between the parties and their relationship for the project will be guided as follows:**

Article 1 – Purpose of Agreement of Association

The Contractor(s) and BHEL will work jointly to execute the project. BHEL will be the prime Bidder and the Contractor(s) will be the Associate for the agreed Scope of work.

Article 2 – Responsibilities of the Contractor(s) and BHEL

i. **The Contractor(s)'s Scope of work will be in line with scope matrix and BHEL's tender specification enclosed along with the customer tender specifications.**

ii. **The price quoted by the Contractor(s) will be discussed, negotiated and finalized by BHEL before their submission of BID to CUSTOMER.**

iii. **Any further price discounts, to be given to customer by BHEL to secure the order, will be shared by BHEL and the Contractor(s) pro-rata for their scope of work after mutual discussion & consent.**

iv. **In case of BHEL getting order for the project from Customer, BHEL will place order on the Contractor(s) for the respective scope of work based on agreed price and terms and conditions.**

v. **The Contractor(s) shall execute his scope of work and adhere to the project completion schedule of BHEL / CUSTOMER. However, during negotiations with customer, if any, adjustment required to be done, the same shall be mutually discussed and agreed.**

vi. **The Contractor(s) shall execute his scope of work, in line with L2 network, to be worked out during detailed engineering and adhere to the project completion schedule.**

vii. **Technical specification shall be as per tender document and all the subsequent discussions with customer, consultant & BHEL. These shall be consolidated and enclosed along with the order on Contractor(s).**

viii. **The Technical specification shall be as per clause vii above, however depending on technical discussion with CUSTOMER during execution, the Contractor(s) shall agree to the specification as finally accepted by CUSTOMER within tender scope of work and the performance guarantee parameters pertaining to works without any cost implications. Any requirement beyond tender scope of work, which will have financial**

implications, will be discussed jointly with CUSTOMER and the resultant financial implication shall be discussed and mutually agreed upon.

ix. BHEL along with the Contractor(s) will participate in the discussions with CUSTOMER, as required, to give all technical clarifications.

x. All Commercial Terms and conditions shall be as per tender Documents and the subsequent Minutes of Meeting and correspondence between BHEL and CUSTOMER.

xi. The Contractor(s) shall confirm validity of their offer for one month beyond the date Contract is signed with CUSTOMER, in the event of BHEL getting the order.

xii. The Contractor(s) shall be fully responsible and liable for the complete execution of its SCOPE OF WORK according to the CONTRACT and shall bear all cost whatsoever connected therewith.

xiii. The Contractor(s) shall be responsible for the completion of project as per the agreed schedule for his scope and any other item/work required for completion of his scope of work, shall be included and carried out without any commercial / price implication.

xiv. The Contractor(s) shall closely cooperate in order to obtain the award of the CONTRACT from CUSTOMER and to achieve a smooth and complete performance thereof.

xv. The Contractor(s) shall prepare and submit in due time all data and information necessary for the fulfillment of the SCOPE OF WORK.

xvi. In case of an order, the Contractor(s) and BHEL shall take respective leading role to get the design/ drawing approved by CUSTOMER for respective scope of work.

xvii. **The Contractor(s) is responsible for getting the approval from CUSTOMER for undertaking all works of their scope. BHEL will provide necessary support.**

xviii. **The Contractor(s) will take entire responsibility for correct Design, Engineering, Supply & Installation of Modules, Floaters, Anchoring & Mooring and AMC at 3 x100 MW Floating Solar PV Power Plant, Omkareshwar Reservoir, MP.**

xix. **All drawings, documents, design calculations to the extent applicable shall be submitted by the Contractor(s) in requisite numbers. These shall be as per CUSTOMER requirement plus two copies for BHEL's use. The Contractor(s) will also furnish the reproducible and CD as per CUSTOMER's requirement plus (1) one set for BHEL's use.**

xx. **In case the CONTRACT will not be awarded to BHEL, any claim by the the Contractor(s) is excluded.**

Article 3 – Exchange of Information & Completeness

The Contractor(s) is obliged to execute the job on the basis of the CONTRACT and this MOU. Separate Purchase Order will be placed on Contractor(s) by BHEL after signing of Contract between BHEL and CUSTOMER.

Each party shall exchange with the other party in a timely manner all necessary information required by the other party, so as to effect full and timely completion of work of the tender/contract.

Article 4 – Confidentiality

Each party shall be obliged to keep in strict confidence, and bind all of its employees / associates and subcontractors to keep in strict confidence all information received directly or indirectly from the other party under this

agreement and shall not at any time, disclose such information to any third party without prior written consent of the other party.

Any such disclosure to a third party shall be limited to the extent required for the completion of this PROJECT and the third party shall be bound to the provisions of secrecy and restriction of use as expressed herein.

Press releases, prospectuses and official publications relating to the PROJECT will be agreed upon between the PARTIES beforehand.

Publications concerning only one PARTY's SCOPE OF WORK must contain a suitable reference to the type and scope of the other PARTY's SCOPE OF WORK.

This MOU shall not be disclosed by the Contractor(s) to any third party unless agreed upon by BHEL.

Article 5 – Amendments

In case of any amendment to this agreement, it must be in writing and signed by the duly authorized representatives of both the parties. The provisions of the Article 5 shall survive till expiration or termination of this MOU.

Article 6 – Duration of MOU

This Agreement shall be valid from the date of signing, and continue to be in force, and terminate without prejudice to any antecedent liabilities upon the occurrence of any of the following, whichever is earliest:

a) By mutual agreement
b) By substituting this MOU with a detailed Purchase Order
c) If the contract is awarded by CUSTOMER on other Bidder.

Article 7 – Force Majeure

Without prejudice and without antecedent liability, neither party shall be responsible for non-performance or non-fulfillment of any nor all their obligations under this agreement if such non-performance or non-fulfillment is due to "Force Majeure" as defined in the Tender Document of BHEL.

Article 8 – EMD/ Security Deposit/ Performance Guarantee/Payment

The Contractor(s) shall furnish a <u>Bank Guarantee for 1%</u> of the value of the Contractor(s)'s scope as per MOU within 30 days of signing the MOU. This BG shall be valid till a formal Purchase Order is placed on the Contractor(s).

BHEL shall agree to furnish DD / Bank Guarantees for EMD for the entire Project, as applicable. The Contractor(s) shall furnish all BG for their respective scope of work to BHEL as per Tender/contract conditions agreed with CUSTOMER and BHEL.

Project financing shall be by the respective partners for execution of the project.

All invoicing of Contractor(s) shall be to BHEL. Payment against supply by the Contractor(s) shall be made as per commercial terms and condition of contract.

This MOU will be amended with consideration of the development in the PRECONTRACT PHASE and of the final provisions of the CONTRACT.

The failure of any PARTY to enforce at any time any of the provisions of this MOU shall in no way be construed to be a waiver of such provision, nor in any way to affect the validity of this MOU or any part hereof should elements of this MOU be discovered to be ineffective, or contain omission's all remaining clauses of the MOU shall continue to be effective.

With regard to the ineffective or missing elements, the PARTIES shall agree upon a correction to these elements which corresponds to the spirit of this MOU as well

as its economic purpose and sense, which in any case the PARTIES would have agreed upon, if the ineffective or missing elements would have been discovered before the signature of this MOU.

No. PARTY shall assign or in any way transfer its rights or obligations arising out of the present MOU without obtaining the prior written consent of the other PARTY hereto.

All notices to be given under this MOU shall be in writing and shall be deemed to have been properly given upon dispatch by registered or certified mail or e-mail or telefax to the PARTY's address as set forth below or to such other address as the PARTY may subsequently designate;

BHARAT HEAVY ELECTRICALS LIMITED
SOLAR BUSINESS DIVISION,
PB NO 1249, PROF. CNR RAO CIRCLE,
MALLESWARAM
BENGALURU- 560012, INDIA
FAX NO: 080 2218 2269

…….
…….
…….
…….
…….

Article 9 Arbitration

All questions and disputes/difference relating to the meaning of the specifications, design, drawings and instructions and or interpretation of the Contract or its clauses and as to the quality of workmanship or materials used on the work or as

to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawing, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration appointed by the Chairman & Managing Director/Executive Director (Incharge of the Unit) / General Manager (Incharge of the Unit) / concerned Additional General Manager of the Unit of BHEL. The cases referred to arbitration shall be other than those for which the decision of the Dy. General Manager / Sr. Manager /Project Manager/Manager/Sr. Engineer/Engineer, is expressed in the contract to be final and conclusive. The arbitrator to whom the matter is originally referred being unable to act for any reason, Chairman & Managing Director/Executive Director (Incharge of the Unit) / General Manager (Incharge of the Unit) / concerned Additional General Manager of the Unit of BHEL, shall appoint another person to act as sole arbitrator and such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

Subject as aforesaid the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings.
It is a term of the contract that the party invoking arbitration shall specify the dispute or disputes including specifying the quantum of financial claim, if any, to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator (s) shall complete the entire arbitration and publish an award within a period of twelve months from the date the Tribunal enters upon the reference.

The parties to this arbitration agreement may before or at the time of invoking the Arbitration clause, may indicate in writing for FAST TRACK PROCEDURE wherein the Arbitrator shall pass an award within six months from the date the Tribunal enters upon the reference and to that effect, the Tribunal may dispense with any

technical formalities and conduct the proceedings without oral hearing, subject to acceptance of such Fast Track procedure by other party.

The work under the Contract shall continue during the arbitration proceeding and no payment due to the Contractor shall be withheld on account of such proceedings.

The Arbitrator shall be deemed to have entered on the reference on the date one party issues notice to other party invoking arbitration clause under this. The Venue of arbitration shall be Bangalore and the language will be English only. The award of the arbitrator shall be final, conclusive and binding all parties to this contract.

For BHARAT HEAVY ELECTRICALS LIMITED	**For ……**
_____	**_____**

Witnesses:

1)

2)

1. Omkareshwar Floating Solar Project

1.1 Location and site characterstics

The Omkareshwar Dam is a gravity dam located on the Narmada river just upstream of Mandhata in Khandwa district of Madhya Pradesh, India. The Dam stands 33 m (108 feet) tall, and it is 949 m (3114 feet) long. The total capacity of the reservoir is 141,547.8 m^3 (115 acres*feet), while the active capacity is 27,877 m^3 (23 acres*ft). The reservoir's catchment area measures 64,880 square kilometers (25,050 square miles).

The dam provides irrigation water for irrigating upto 132,500 Hectares (327,000 Acres) of agriculture land. The base of the dam houses an associated Hydroelectric Power Station with an installed capacity of 520 MW. The dam consists of a foundation and a concrete and stonewall and is designed to hold back water only by its weight and its resistance against the horizontal pressure of water. The sections of the gravity dams are designed to be independent and stable of one another.

The reservoir levels are usally maintained at 193.00 metres (m) as permitted by GoMP for filling of the reservoir. The Full Reservoir Level (FRL) is 196.60 m and Maximum Water level (MWL) is 199.62m. The Minimum Draw Down Level (MDDL) is 193.54 m, which is yet to be achieved.

After permission of Government of MP for filling of reservoir upto FRL, i.e. 196.60m, the reservoir levels tends to vary between 193.54 m to 196.60 m. The reservoir has an approximate area of 93 Square Kilometers at FRL and same at MDDL is 72.06 Square Kilometers. The Table 1 provides the key site parameters of the Omkareshwar reservoir.

Table 1 - Omkareshwar Reservoir Site Parameters

Site parameters	Value
Location	22º14’25’’N, 76º09’45’’
Estimated surface available	11 km2
Top of the reservoir level	204.00 m
Maximum water level	199.62 m
Full reservoir level	196.60 m
Flood Cushion	3.60 m
Minimum Draw Down Level	193.54 m
Spillway crest level	179.60 m
Gross storage	0.987 billion m^3
Live storage	0.299 billion m^3
Spillway type	Gated ogee spillway
Gates	Radial gates 23 Nos (20 m x 18.03 m)
Height of dam from foundation	64.00 m
Powerhouse	520 MW (8 Nos of 65 MW)
Design flood	88.315 Cumecs
Maximum observed flood since 2007	38.028 Cumecs (2013-2014)
Seismic Zone	Zone -III
Earthquake monitoring station	Operational

Air temperature	Min 11-12 °C (in the month of Dec-Jan) Max 40-45 °C (in the months of May)
Wind Speed range	9-20 km/h, no major typhoon occurrence in the area
Mean Annual Rainfall –Khandwa District	806 mm
Nearest Airport	Devi Ahilya Airport Indore (M.P.) is 86 km from Omkareshwar Project
Nearest Rail Head	Khandwa, is 78 km from Omkareshwar Project

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm

DRAWING NO.

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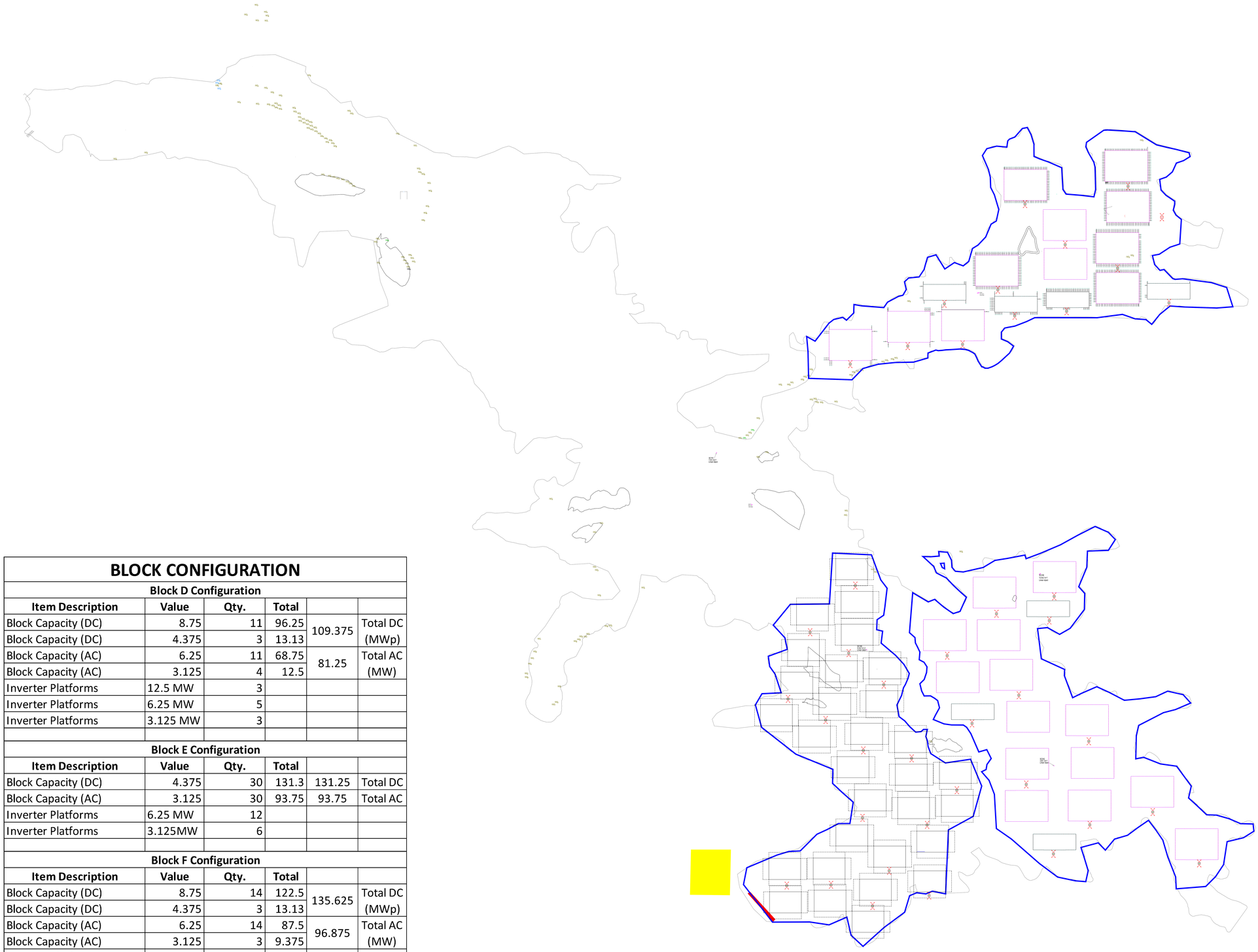

BLOCK CONFIGURATION

Block D Configuration					
Item Description	**Value**	**Qty.**	**Total**		
Block Capacity (DC)	8.75	11	96.25	109.375	Total DC (MWp)
Block Capacity (DC)	4.375	3	13.13		
Block Capacity (AC)	6.25	11	68.75	81.25	Total AC (MW)
Block Capacity (AC)	3.125	4	12.5		
Inverter Platforms	12.5 MW	3			
Inverter Platforms	6.25 MW	5			
Inverter Platforms	3.125 MW	3			
Block E Configuration					
Item Description	**Value**	**Qty.**	**Total**		
Block Capacity (DC)	4.375	30	131.3	131.25	Total DC
Block Capacity (AC)	3.125	30	93.75	93.75	Total AC
Inverter Platforms	6.25 MW	12			
Inverter Platforms	3.125MW	6			
Block F Configuration					
Item Description	**Value**	**Qty.**	**Total**		
Block Capacity (DC)	8.75	14	122.5	135.625	Total DC (MWp)
Block Capacity (DC)	4.375	3	13.13		
Block Capacity (AC)	6.25	14	87.5	96.875	Total AC (MW)
Block Capacity (AC)	3.125	3	9.375		
Inverter Platforms	12.5 MW	5			
Inverter Platforms	6.25 MW	4			
Inverter Platforms	3.125 MW	3			

LEGEND : -

SYMBOL	DESCRIPTION
	BLOCK
	INVERTER FLOATING PLATFORM
	SPREADER BAR
	SHORT SPREADER BAR
	HT CABLE
	BOAT ROUTE
	DC CABLE
	LOCAL POOLING SWITCHGEAR FLOATING PLATFORM
	LAUNCH PLATFORMS
	FSPV ASSEMBLY AREA

AREA		
PLOT	OLD	NEW
BLOCK-D	16467655.2439	2073437.6104
BLOCK-E	24197886.9766	2119749.7868
BLOCK-F	2281127.8159	2411364.3477

REV.	DATE	ALTERED / CHECKED / APPROVED

	NAME	SIGN	DATE
DRAWN			
CHECKED			
APPROVED			

DISTRIBUTION OF PRINTS

DEPT.	CODE
SC&PV	439

PROJECT : FSPV 300MW OMKARESHWAR DAM
CUSTOMER : RUMSL
CONSULTANT :

BHARAT HEAVY ELECTRICALS LIMITED.
SOLAR BUSSINESS DIVISION, BANGALORE

TITLE: PV ARRAY LAYOUT TENTATIVE BLOCK D,E,F

No. OF SHEETS	00
SHEET No.	01
REV	00

BHEL DRG. No. BHEL-RUMSL-300MW-001

REF. DWG.NO.
SIGN & DATE
REVISION NO.

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Technical specification for Design and supply of floaters and associated Anchoring and Mooring for 300MW FSPV Project at Omkareshwar Khandwa-M.P.

Revision details :R 00	Prepared	Approved	Date
	NY	PM	26.04.2022

1.0 Introduction:

This document describes the technical specification for the design and supply of HDPE floaters for forming the PV Module Island and for laying the DC and HT cables and associated Anchoring and Mooring systems for 300MW FSPV Project at Omkareshwar Khandwa-M.P.

2.0 The scope of Bidder shall be as follows (In brief):

1. The design and supply of complete PV Module Floatation platform along with complete floater accessories.
2. Assembly of Floaters and PV Modules and cable connection in between PV Modules.
3. The design and supply of HDPE Floaters for laying DC and HT Cables.
4. Design and supply of Mooring and Anchoring of Sl.no 1&3.
5. I&C of Mooring and Anchoring.
6. AMC of floatation platform on yearly basis.

BHEL shall define the no of PV Modules * to be mounted and the complete BOQ of floaters to form the array utilizing these PV Modules shall be in the scope of the bidder. This shall include the complete structure material for mounting the PV Modules too. Other than mounting the PV Modules , floaters to be supplied for the following:

1. Floaters for routing the DC Cables in the PV Module Array.
2. Floaters for mounting the SCBs/ SMBs, LA.
3. Floaters for taking DC Cables from PV Module platform to Equipment barge.
4. Floaters for laying HT Cables.
5. Walkway floaters for connecting the floating islands to land.

Details of Equipment , cables, LA alongwith their weights is tabulated in the table below:

*No of modules i.e DC to be supplied shall be defined in the Commercial Bid.

DC Power and HT cable details for floating SPV plant						
SL No	**Description**	**Overall diameter (Max in mm)**	**Weight (Kg/m)**	**Bending radius 12D for LT and 20D for HT (Min in mm)**	**Route**	**Remarks**
1	3.3kV, 1CX400 sq.mm XLPE **Un**armoured AL cable	35	1.5	420	SCB to PCU	Better to use unarmoured cables with water sweallable tape for floating SPV plants
2	3.3kV, 1CX400 sq.mm XLPE armoured AL cable	37	1.9	444	SCB to PCU	Use only if customer insists for armoured cable. Add water sweallable tape.
3	33KV, 1CX150 sq.mm XLPE armoured Al cable	46	1.8	920	IFP to LPSFP	2.5MW block to LPSFP. For trefoil formation **3 times the weight** shall be considered
4	33KV, 1CX240 sq.mm XLPE armoured Al cable	51	2.3	1020	IFP to LPSFP	5MW block to LPSFP. For trefoil formation **3 times the weight** shall be considered
5	33KV, 1CX630 sq.mm XLPE armoured Al cable	64	4	1280	LPSFP to ground	25MW power evacuation. For trefoil formation **3 times the weight** shall be considered

Notes:
1) Block shape may vary based on location of PCUs (on water /on land).
2) In case the PCUs are placed on water, the array shall have 120 or 116 modules (landscape) in a row (ie., 2 vertical walksways onwhich SCB/SMBs are placed). If we are using 540Wp modules, the maximum number of modules in string shall be restricted to 29 Nos. Hence in a row 116 modules.
3) No. of SCBs shall be even number for an array. In case we are using 540Wp modules, then the number of SCBs shall be 6. In case of lesser wattage module, maximum number of SCBs shall be 8 , which are placed 4 nos. each in 2 vertical walkways.
4) Until and unless specified in tender we shall avoid the usage of cable trays in array.
5) If we are placing ESE LAs on middle of array on vertical walkways, then we need 2 Nos per 2.5MWac block.
6) Floater shall have additional clamping points for clamping HDPE pipes/FRP trays/ earthing strips etc other than four corners of the floater. Possibility of a clamping hole on module support member shall be exlored for routing of 6 sq.mm cable below module using cable ties.
7) Weight of each SCB = 50Kg
8) Weight of 5 meter tall ESE LA assembly = 40Kg

An overall layout for the project has been prepared by BHEL and attached in Annexure.Bidder to revise the Array layout with no of PV-Modules as indicated by BHEL and as per his floater BOQ taking into consideration the laying of cables and all equipments in the designated reservoir surface area. Also this Array population to cast minimum shadow (Shadow loss of the PV-Array limited to maximum 1%). This Array layout has to be submitted to BHEL along with the technical documents for verification. The Array layout to include mandatory clearances for Inverter Rooms and other utilities.

Warranty for Floating system: Each Floater unit used in the plant must be warranted against crack, puncture, breakage etc for which bidder shall assure for integrity of the whole system for 25 years from date of successful completion of trial run. The thermoplastic fasteners, if used also has to be warranted against its sequential failure.

Vendor has to provide 10 years warranty for his Supply BOQ and I&C of Anchoring /Mooring.

In addition to above Vendor has to provide the complete installation manual for the I&C of their floatation system and the O&M requirements of this floatation system. Any Cost related to O&M of the plant to be included in the price bid.

3.0 Pre Bid Meeting/Clarifications:

All technical clarifications w.r.t this specification to be mailed to the following email id. punammishra@bhel.in

Alternatively vendor can request for a pre bid meeting or Video conferencing with BHEL.

4.0 Site Visit:

Vendor is advised to visit the project site and acquaint himself with all site specific conditions. Vendor to fill the site inspection certificate at Annexure-3.

5.0 Mandatory Documents to be submitted for the pre bid tie up by the bidder:

1. Details and drawings of the HDPE floaters being offered to BHEL.
2. Test results of the various test connected on the floaters , bidder may indicate any patents filed for his floaters .
3. Indicative MQP and FQP of the HDPE Floaters.
4. Details of the parent technology provider for HDPE Floaters.
5. Source of raw material suppliers.
6. Details of base polymer grades used for HDPE Floaters.
7. Details of Manufacturing plant capacity.
8. Details of the moulds for respective floaters available with the bidder.

7.0 Vendor scope in detail:

#	Item description	Qty	Remarks	Delivery Time

1	Design of Complete Floatation System along with Anchoring and Mooring details. This design has to be approved by BHEL and End Customer. This design to include the DC Cable and HT Cable layout along with associated anchoring and mooring works.	1 Set	As per specification.	The preliminary design has to be submitted within 10 days of PO Placement. The final design to be completed within 30 days of PO Placement.
2.	Completion of Anchoring and Mooring works.			
3.	Assembly of PV Modules with Floaters and cable connection between PV Modules.			
4.	Towing the assembled blocks to designated location in the water body and connecting to the Mooring ropes.			
5	MQP and QAP of the Floats to be submitted to BHEL/End customer for Approval.			
6	Vendor shall have to execute demo I&C of minimum (1 set) of floaters with PV modules. The quantity of set shall be defined based on the project size. This I&C shall be carried out such that BHEL personnel shall be duly trained.	1 Set		

7	Array layout, shadow analysis of the Floating platform along with PV Modules populated. Vendor to indicate the shadow loss due to his proposed Array layout.	1 Set	As per specification.	Within 10 days of PO Placement.
8	Supply of the Entire BOQ as per approved design in Sl.No -1.	1 Set		
9	Supply of Floats to Mount LAs.	1 Set		
10	Floats to mount String Combiner box or String monitoring box.	1 Set.		
11	Floats to take DC Cables from Array to the equipment platform.			
12	Floats to take the HT Cables from Equipment barge to the local pooling and from the local pooling to the land.			
13	Floats for walkways from Array to land.			
14	I & C of Mooring and Anchoring system as approved in Sl. No -1.	1 Set		
15	O&M Manual for the floatation system.			
16	Spares	As per the BHEL tender qty.		
17	AMC	Yearly		

Any other scope which is not a part of the above list, but is required for the successful operation of the Floating Platform to be specified by the vendor.

6.0 Documents which shall be provided by BHEL to bidder at time of tender:

1. Proposed Array layout for the project.
2. Soil and water test report.
3. Site inspection certificate.
4. Technical inputs conditions for the project site.
5. Bathymetry report**.(Due to size limitations it will be shared to bidders who put up a request mail to email id: punammishra@bhel.in)**

**As the vendor has to design the complete floatation platform, hence apart from the information already furnished by BHEL, the vendor has to provide the checklist of the documents required from BHEL to design the floating platform along with anchoring and mooring. This list to be a part of Technical document. May note that the Bathymetry report ,Soil and water test report attached here are indicative and vendors are advised to conduct their own investigations.

7.0 BHEL Scope shall include :

a.) Unloading of Floating Pontoons/Floater at Site in Stores Area.

b.) Storage and Security of items –supplied by Floatation vendor.

Mandatory Technical Conditions :

GENERAL

The Floating system comprises of the Floating unit, Module support structure (if applicable) and anchoring/ mooring mechanism for the Floating Solar PV system (FSPV).

Wind speed for all designs to be as per IS 875-Part 3.

2.0 CODES AND STANDARDS

The floatation system must conform to the latest edition of any of the following IEC/ equivalent standards for floating system design qualification and type approval. The reports verified by third party NABL national or international accredited agency shall be submitted for approval to BHEL.

CODES	Description

ASTM D1693 (or equivalent ISO Standards)	Test for Environmental Stress Cracking of HDPE
ASTM D790, ISO 178	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics & Electrical Insulating Materials
ASTM D638, ISO 527	Standard Test Method for Tensile Properties of Plastics
ISO16770	Full Notch Creep Test (FNCT).
ASTM D2565, ISO 4892-2	Standard Practice for Xenon-Arc Exposure of Plastic intended for outdoor Applications
ASTM D4329,ISO 4892-3	Standard Practice for fluorescent ultraviolet (UV) lamp apparatus exposure of plastics
ASTM D1693-15 (or equivalent ISO Standards)	Standard Test Method for Environmental stress cracking of Ethylene plastics
RoHS directive 2002/ 95/EC	Test for Restriction of Hazardous Substances

FLOATING UNIT

The floatation units of module shall be modular and easily connected to each other. Once completely connected, the floating platform must be able to support the weight of PV module, module support structure, cables, support railing (if applicable) etc. The floater system shall also be able to support the load of O&M personnel, electrical equipments as mentioned earlier in this document, MWS etc. Details of all above equipment shall be provided by BHEL in annexures.

TECHNICAL REQUIREMENTS OF FLOATING UNIT

a. The floating units shall be standardized and designed for simple onsite installation.
b. The floating units shall be prefabricated and modular in design with appropriate buoyancy to support the weight of at least one solar panel/equipment and one person (with minimum weight of 80 kg) per unit.
c. The floating unit design shall facilitate ease of assembly /disassembling, replacement of any module and enable future expansion or scaling.
d. The floatation unit should be manufactured from appropriate thermoplastic (virgin material) with UV stabilizer such that the life of floatation device shall be able to sustain for a period of 25 years.

e. The material used in manufacturing shall withstand Environmental Stress Crack Resistance (ESCR) and have a combination of hardness and impact strength (ASTM D5397, ASTM D1693).
f. The material used for floatation device shall be chemically resistant to acid, lye, petrol and mineral oil and also partially resistant to benzene and non-detrimental to marine life.
g. In order to increase longevity and prevent unexpected loss of buoyancy, the floating unit shall have an average material thickness of 3 mm, with moisture retention of less than 5%. (Detailed buoyancy calculation to be submitted along with drawings at the time of drawing approval).
h. The floating unit material shall be designed to balance the thermal expansion so that PV Panel are not stretched due to effect of thermal expansion.
i. The complete floating system shall have at least 400 mm floating corridor along the periphery comprising of module floaters and/ or walkway floater to prevent water splash.
j. The design of the floating system shall incorporate appropriately sized walking platforms for regular maintenance and inspection. The walking platform shall be continuous with minimum width of 400 mm, excluding cable-laying arrangement.
k. The walkway platform shall be placed in such a way that each module in the array layout can be easily accessed through the continuous walking platform without any additional infrastructure.
l. Bidder to take into consideration load of all electrical equipment and accessories during the design of floatation platform. Details of Electrical equipment and accessories are as provided by BHEL in annexures.
m. Floating system should be designed to withstand the maximum wind speed of the location.
n. The floating units once assembled together should form an integrated structure. The relative alignment of the floating unit subsequent to complete installation shall not misalign the solar panels.
o. The floating units shall be re-process able and recyclable at the end of its useful life.
p. The design life of the floating units should be 25 years.
q. Vendor to indicate the Mandatory spares as required for his designed plant life.
r. The screw and nuts used for floater connection to have a sound locking arrangement to take care of the wave motion. The locking arrangement to prevent any loosening of screw and nuts. This shall further prevent any loosening in the floater assembly.

Desirable conditions for Floaters:

1. The Caps of the floaters after interconnecting in assembly should be easily accessible for opening and removing of water in the event of breakage of cap due to thermal expansion or thread give away. There shall be no need to take out the floater from the assembly to remove water and replace the cap due to non accessibility.
2. The PV modules shall be mounted in such a way that the clamping fixtures are easily accessible from top side in the assembled condition. There shall be no need to access from below the water for any removal/repair.
3. The Major screws of all HDPE bolts shall incorporate effective and durable additional fastener to prevent loosening over a period of time. This shall be way of Lock nuts, Split pins (only with solid Bolts)
4. Floats shall incorporate solid dummy ears at mid points on either side with thickness equal to regular connecting ears so as to enable drilling through them to fix Metallic strip, clamps or hardware for cable and tray supports, SCBs and for Water washing pipes.
5. Wherever Multi tier floater arrangement is called for to support Cables or increase/decrease heights of mounted items, OEM shall design and provide Extra length solid HDPE/LDPE bolts with nuts and lock nuts for assembling 2 or three stacks of floaters.
6. Fire resistance/fire retardance : HDPE Floater material / master batch to have constituent to resist burning due to electrical fire or sparks.
7. To provide floats in White colour to reduce inherent field temperature.
8. All batches of floats to clearly carry Mould stamping showing Batch no. Month, Week of year

MODULE SUPPORT STRUCTURE (IF APPLICABLE)

a. The module support structure (MSS) shall be so as to allow easy replacement of any module by authorized personnel.

The MSS and associated hardwares / fasteners, if used are metallic in nature, shall be non-corrosive and suitable for site weather and marine conditions. The structures shall be either be made of anodised aluminium or the MMS shall be hot dip galvanized with average coating thickness to be minimum 80 micron and local coating thickness shall be minimum 70 microns for protection against corrosion.

For steel sections with thickness above 5mm the minimum galvanization thickness to confirm to IS-4759. Galvanization shall be measured with elcometer and Vendor shall submit the report. Material can be sent for testing to NABL accredited laboratory as and when required at cost of vendor. Test to determine corrosion performance of MMS as per the applicable IS/ASTM, as and when required.

b. All fasteners, nuts, bolts and other hardware shall be of Stainless steel – 304 or higher grade to suit the site conditions and to ensure a life of 25 years.

c. MSS shall be designed to withstand the extreme weather conditions in the area.

d. The modules shall be mounted at fixed tilt .

e. PV fixation system shall be of proven design and subjected to Mechanical test to withstand unit failure conditions under static and fatigue conditions for base wind speed. The results conforming to above test shall be submitted to BHEL on request.

f. The design philosophy and the calculations for the MSS with suitable test reports shall be submitted for BHEL's approval.

Anchoring and mooring system

a. The design life of the Anchoring and Mooring system shall be 25 years.
b. Placement of plant: The floating solar PV (FSPV) power plant should be at a minimum safe distance from the edge of the land surface. In case edge of land surface has a sloped edge then this distance of array from land edge to be calculated w.r.t to the position of floating island at minimum water level condition. However, the exact positioning can be finalized at the time of detailed engineering, after conducting bathymetric study.
c. Prevailing wind load: The floating system comprising of floating unit, PV fixation system and associated anchoring system shall be designed as per base wind speed and able to withstand dynamic conditions as per IS 875-3.
d. The design of the mooring system shall permit minimal lateral movement of the plant in case of maximum wind loads (as per IS 875-3). The lateral excursion of the floating platform not to exceed 4mts even at minimum water level. In case the excursion of the bidders platform is more than this limit , the same to be informed to BHEL during bid submission. Anchoring design report for the project showing that the system could support the maximum wind load on site shall be submitted to BHEL.
e. Water variability: The mooring system should accommodate any fluctuations in water level. Further, the orientation of the plant needs to be maintained; hence, any fluctuations in water level shall allow minimal movement of the FSPV plant as per mooring system design.
f. The materials used in the anchoring and mooring system shall not contaminate the water and affect the aquatic ecosystem.
g. The materials used in the anchoring and mooring system shall have a design life of 25 years…
h. Dedicated floating approach walk way to be provided from the end of the reservoir/ land surface to the plant, for each block in the floating system. The block size of the floating system depends on the array layout optimization. The same shall be finalized during detailed engineering.
i. The design of complete system, including CFD modelling, comprising of Floating unit, MSS and anchoring system, shall be verified by suitable third party NABL accredited agency/ reputed institutions like IITs and submitted for BHEL approval.

Detailed structural and stability calculations shall be submitted for BHEL approval.

Anchoring System:

Anchoring of the floating Island can be through Dead weight Anchors /Screw Piles/ Anchor Plates.

For dead weight anchors the following specification to be followed.

Reinforced Concrete Structure and dead weight blocks:

All RCC works shall be design mix as per IS: 456-2000.

For structural concrete items, Ordinary Portland cement (43 Grade) conforming to IS: 8112 and Fly ash based Portland pozzolana cement conforming to IS:1489 (Part-1) shall be used for anchoring blocks.

Type of **cement** for anchoring block shall be decided based on the final water test report.

Coarse aggregate for concrete shall be crushed stones chemically inert, hard, strong, durable against weathering of limited porosity and free from deleterious materials. It shall be properly graded. It shall meet the requirements of IS: 383.

Sand shall be hard, durable, clean and free from adherent coatings of organic matter and clay balls or pellets. Sand, when used as fine aggregate in concrete shall conform to IS: 383.

Reinforcement steel shall be of high strength deformed TMT steel bars with corrosion inhibitors, Corrosion Resistant Steel (CRS) re-bars, Fusion Bonded Epoxy Coated (FBEC) re-bars or Zinc Coasted re-bars of grade minimum Fe-500 and shall conform to IS: 1786. Ductile detailing in accordance with IS: 13920 shall be adopted.

The bidder shall carry out the design mix of M-25 concrete on priority. The design mix shall be approved from BHEL before start of work.

* The use of nominal mix for M-20 grade may be accepted only in exceptional cases subject to approval of BHEL Engineer-In-Charge.

The same shall be adopted subject to approval from BHEL for specific work.

In case water test requires any special kind of cement or higher grade of concrete, the same shall be provided without any financial implication.

The anchoring block system shall be made which transfer loads safely to the bed of the water body by providing hooks and inserts as required depending on soil conditions, geographical condition, regional water waves, bearing capacity, slope stability etc.

IS: 2502 Code of Practice for Bending and Fixing of Bars for concrete Reinforcement must be complied for reinforcements.

IS: 5525 and SP: 34 shall be followed for reinforcement detailing.

QUALITY ASSURANCE AND INSPECTION FOR CIVIL WORKS

INTRODUCTION

This part of the specification covers the sampling, testing and quality assurance requirement (including construction tolerances and acceptance criteria) for all civil and structural works covered in this specification. This part of the technical specification shall be read in conjunction with other parts of the technical

specifications, general technical requirements & erection conditions of the contract which covers common QA requirements. Wherever IS code or standards have been referred they shall be the latest revisions. The rate for respective items of work or price shall include the cost for all works, activities, equipment, instrument, personnel, material etc. whatsoever associated to comply with sampling, testing and quality assurance requirement including construction tolerances and acceptance criteria and as specified in subsequent clauses of this part of the technical specifications. The QA and QC activities in all respects as specified in the technical specifications/ drawings / data sheets / quality plans / contract documents shall be carried out at no extra cost to BHEL.The contractor shall prepare detailed construction and erection methodology scheme which shall be compatible to the requirements of the desired progress of work execution, quality measures, prior approvals if any and the same shall be got approved by the Engineer. If required, work methodology may be revised/ reviewed at every stage of execution of work at site, to suit the site conditions by the contractor at no extra cost to BHEL

1. QA AND QC MANPOWER

The contractor shall nominate one overall QA coordinator for the contract detailing the name, designation, contact details and address at the time of post bid discussions. All correspondence related to Quality Assurance shall be addressed by the contractor's QA coordinator to BHEL. BHEL shall address all correspondence related to Quality issues to the contractor's QA coordinator. The contractor's QA coordinator shall be responsible for co-ordination of Quality activities between various divisions of the contractor and their sub-vendors on one hand & with BHEL on the other hand. The contractor shall appoint a dedicated, experienced and competent QA&QC in-charge at site, preferably directly reporting to the Project Manager, supported as necessary by experienced personnel, to ensure the effective implementation of the approved QAP. The contractor shall finalize and submit a deployment schedule of QA&QC personnel along with their details to BHEL for approval/ acceptance and further shall ensure their availability well before the start of the concern activity.

2. LABORATORY AND FIELD TESTING

The field laboratory for QA and QC activities shall be constructed and set-up by the contractor in line with the indicative field QA&QC laboratory set-up enclosed at Annexure-I. The Laboratory building shall be constructed and installed with the adequate facilities to meet the requirement of envisaged test setup. Temperature and humidity controls shall be available wherever necessary during testing of samples. The quality plan shall identify the testing equipment/ instrument, which the contractor shall deploy and equip the field quality laboratory for meeting the field quality plan requirements. The contractor shall furnish a comprehensive list of testing equipment/ instrument required to meet he planned/scheduled tests for the execution of works for BHEL acceptance/ approval. The contractor shall mobilize the requisite laboratory equipment and QA&QC manpower at least 15 days prior to the planned test activity as per the schedule of tests. All equipment and instruments in the field shall be calibrated before the commencement of tests and then at regular

intervals, as per the manufacturer's recommendation and as directed by the BHEL. The calibration certificates shall specify the fitness of the equipment and instruments within the limit of tolerance for use. Contractor shall arrange for calibration of equipment and instruments by an NABL / NPL accredited agency and the calibration report shall be submitted to BHEL. The tests which cannot be carried out in the field laboratory shall be done at a laboratory of repute. This includes selected IITs, NCB, CSMRS, reputed government / autonomous laboratories / organizations, NITs and other reputed testing laboratories. The test samples for such test shall be jointly selected and sealed by the engineer and thereafter these shall be sent to the concerned laboratory through the covering letter signed by BHEL engineer. The test report along with the recommendations shall be obtained from the laboratories without delay and submitted to BHEL. Based on the schedule of work agreed with the engineer-in-charge and the approved FQP, the contractor shall prepare a schedule of tests and submit them to the engineer-in-charge and organize to carry out the tests as scheduled / agreed.

3. SAMPLING AND TESTING OF CONSTRUCTION MATERIALS

The method of sampling for testing of construction materials and work / job samples shall be as per the relevant IS / standards / codes and in line with the requirements of the technical specifications / quality plans. All samples shall be jointly drawn, signed and sealed wherever required, by the contractor and the engineer or his authorized representative. The contractor shall carry out testing in accordance with the relevant IS / standards / codes and in line with the requirements of the technical specifications / quality plans. Where no specific testing procedure is mentioned, the tests shall be carried out as per the best prevalent engineering practices and to the directions of the Engineer. All testing shall be done in the presence of the engineer or his authorized representative in a NABL accredited / Govt. Laboratory acceptable to BHEL. This includes all IITs, NCB, CSMRS, reputed government / autonomous laboratories / organizations, NITs and other reputed testing laboratories. The test samples for such test shall be jointly selected and sealed by the engineer and thereafter these shall be sent to the concerned laboratory through the covering letter signed by BHEL engineer. The test report along with the recommendations shall be obtained from the laboratories without delay and submitted to BHEL

PURCHASE AND SERVICE

All Structural steel and Reinforcement steel supply is in the scope of the contractor shall be procured from Main Steel Producers enlisted by BHEL from time to time. Currently, Main Steel Producers enlisted by BHEL are SAIL, JSW Steel Ltd, Jindal Steel & Power, Tata steel Ltd. (for Reinforcement steel/TMT bars), RINL (for long products/Rolled sections and Reinforcement steel/TMT bars), Essar Steel India Ltd. (for Flat products/ Steel Plates), Electrosteel steel Ltd. (for Reinforcement steel/TMT bars) and Monnet Ispat and Energy Ltd. (for long products/Rolled

sections and Reinforcement steel/TMT bars). Subsequently, if any new Main Steel Producer/s are enlisted, they may also be considered for procurement during execution of the contract if proposed by the Contractor.

FIELD QUALITY PLAN

Well before the start of the work, the contractor shall prepare and submit the Field Quality Plans (FQP) on the format given by BHEL, and obtain approval of BHEL, which shall detail out for all the works, equipment, services, quality practices and procedures etc. in line with the requirement of the technical specifications to be followed by the contractor at site.
This FQP shall cover for all the items / activities covered in the contract / schedule of items required, right from material procurement to completion of the work at site. An Indicative Field Quality Plan for civil works is enclosed at Annexure (Indicative FQP for civil and structural steel works).

GENERAL QA REQUIREMENTS

The contractor shall ensure that the works, BOIs and services under the scope of contract whether manufactured or performed within contractor's works or at his sub-contractor's premises or at the BHEL's site or at any other place of work are in accordance with the BHEL technical specification, applicable standards / codes, approved drawings / data sheets / quality plans and BOQ. All the works, BOIs and services shall be carried out as per the best prevalent engineering practices and to the directions of the Engineer.
Lists of Items requiring Quality Plan and Sub-Supplier Approval has been attached at Annexure

ANNEXURE OF CHAPTER F2 TYPICAL QA/QC LAB EQUIPMENT

S.No Equipment Approximate Nos.

1. Cube Moulds for cement testing 12
2. Sieve shaker 1
3. Sieves for sand, coarse & fine aggregate 1 set for each
4. Sieves for coarse aggregate 1 set
5. Slump testing equipment 6 sets
6. Oven 2
7. Physical balance 1

8. Thermometer 4
9. Burret 2
10. Measuring cylinders 9
11. Measuring flasks 3
12. Compression testing machine 1 set
13. Cube moulds for Concrete 18
14. Mechanical weighing machine 1 (100 kg capacity)
15. Drum Type Concrete Mixer (for trial mixes) 1

Note:

1. The equipment listed above are indicative and required to be mobilized as minimum requirement. Additional equipment if any, required for successful completion of work shall be provided /arranged by the contractor.
2. All test reports/ inspection reports have to be computerized and maintained on LAN with an access to the owner
3. Based on the schedule (L2/L3 Network), Quality control & Quality Assurance work plan shall be finalized by the contractor and the same shall be submitted to the engineer-in-charge for acceptance/approval. The Finalized work plan shall be maintained on the computer to be accessed by the owner for database and day to day monitoring.

8.0 Test reports :

Vendor to submit the MQP and FQP of the Floatation platform and mooring and anchoring system. The MQP and FQP to essentially take care of all the criteria as listed in the technical requirements of this tender document.

9.0 Marking and Packing instructions :

Vendor to provide marking and packing instructions of the Approved BOQ.

10.0 Delivery Schedule:

As per specified in the RFQ document.

11. AMC :

Vendor has to furnish AMC on yearly basis from the date of successful installation of the floating platform. This AMC to include the following:

1. Attending to and resolving any breakdown/fault of the floatation platform.
2. Mandatory 1 visit every quarter (once in three months) for the first 3 years to assess the floating platform for any failure or any sign which may lead to subsequent failure. Vendor to send the assessment report to BHEL through email.
3. 1 visit annually from fourth year till the end of tenth year.

Vendor to clearly indicate the O&M requirements of floating solar platform.
In case of O&M requirements the vendor to provide the O&M manual to BHEL.

BED SAMPLE TESTING REPORTS

ULR No. : TC911420000000090F

Page : 01 of 41

Test Report No. : PCFPL / L 0247 / 0113

Date of Receipt : 11.06.2021

Date : 08.07.2021

Client * : Zenith Surveys (I) Pvt. Ltd.

MECHANICAL TEST REPORT

Group	: Soil
Source of sample	: Sample Supplied by client
Lab Reference Number	: 2021 / June / 0162
Project*	: Pre- Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh
Material*	: Soil
Number of Sample Tested	: Soil core - 52
Condition of Sample	: Satisfactory
Period of test	: 11-06-2021 to 07-07-2021

*As furnished by customer

Note:

The Results Relate only to the items tested.

Report shall not be reproduced except in full, without the written approval of the lab.

Any correction invalidates this report.

***For* Paresh Constructions & Foundations Pvt. Ltd**

Kamlesh Pazare

(Manager- Lab)

Authorised Signatory

PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Page No. : 02

Report No. : PCFPL / L 0247 / 0113

Date : 07.07.2021

Lab. Reference No. : 2021 / June / 0162

SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific Gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 01	619729.701716	2458211.189790	SS	----	CI	2	33	49	16	49	24	25	----	VL	0.046	----	1.69	1.17	45	
SS 02	620208.269120	2458430.26474	SS	----	CI	9	20	71		49	23	26	----	VL	0.053	----	1.69	1.14	48	
SS 03	620877.797093	2458182.193090	SS	----	CI	18	23	44	15	39	28	11	----	VL	0.051	----	1.73	1.25	39	
SS 04	621250.513475	2458299.23228	SS	----	CH	2	25	49	24	50	24	26	----	VL	0.046	----	1.63	1.06	53	
SS 05	620757.125575	2457801.371560	SS	----	CI	7	32	61		45	26	19	----	DS UU	0.079	22.4	1.68	1.22	37	

Verified By
ARVIND K.

Authorized By
Kamlesh Pazare

PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Page No. : 03

Report No. : PCFPL / L 0247 / 0113

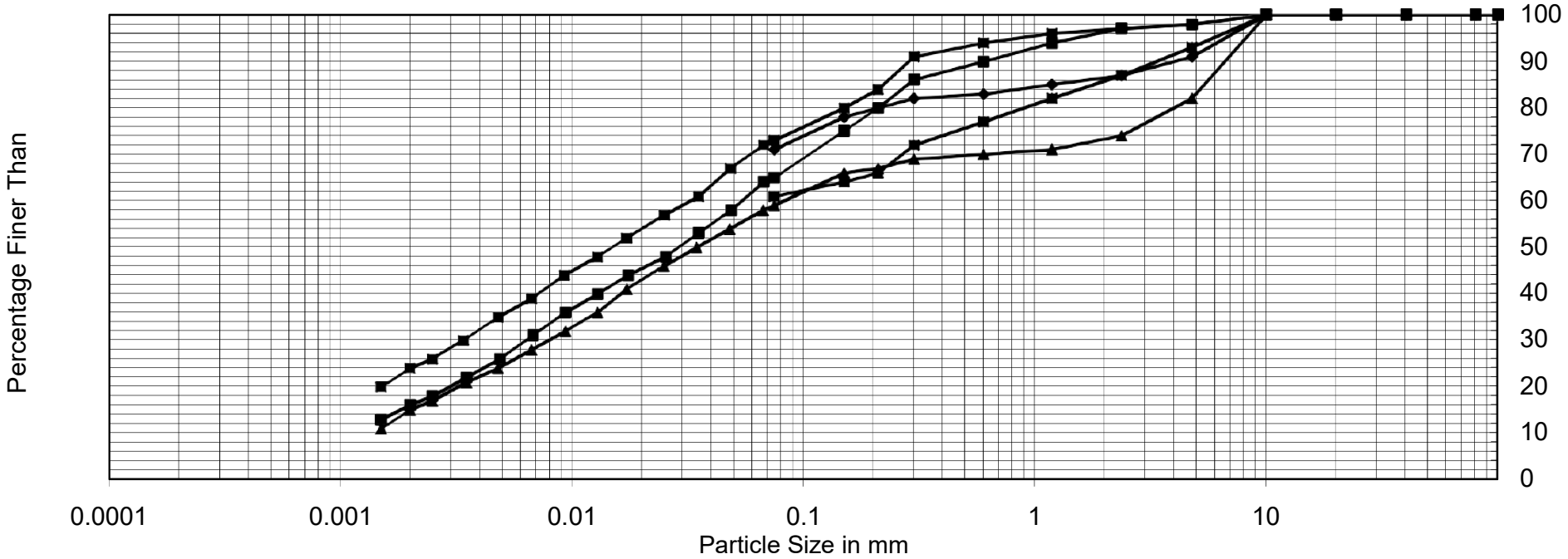
Date : 07.07.2021

Lab. Reference No. : 2021 / June / 0162

Project: Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client: Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 01	619729.701716	2458211.189790	CI	2	33	49	16	----	----	----	----	----	49	24	25	SS
■-■	SS 02	620208.269120	2458430.264740	CI	9	20	7		----	----	----	----	----	49	23	26	SS
▲-▲	SS 03	620877.797093	2458182.193090	CI	18	23	44	15	----	----	----	----	----	39	28	11	SS
✳-✳	SS 04	621250.513475	2458299.232280	CH	2	25	49	24	----	----	----	----	----	50	24	26	SS
◆-◆	SS 05	620757.125575	2457801.371560	CI	7	32	61		----	----	----	----	----	45	26	19	SS

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Date : 07.07.2021

Lab. Reference No. : 2021 / June / 0162

SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific Gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 06	621234.605031	2457716.601500	SS	----	CH	1	29	48	22	52	28	24	----	VL	0.051	----	1.61	1.16	39	
SS 07	621740.143680	2457809.09534	SS	----	CH	15	28	32	25	58	26	32	----	VL	0.061	----	1.51	1.08	39	
SS 08	622246.368259	2457813.09699	SS	----	CH	1	16	59	24	53	28	25	----	DS UU	0.227	22.10	1.61	1.19	36	
SS 09	621758.745542	2457297.91948	SS	----	CI	0	34	66		45	26	19	----	DS UU	0.079	20.84	1.67	1.24	35	
SS 10	622258.568350	2457321.58099	SS	----	CH	1	9	68	22	58	28	30	----	DS UU	0.090	17.60	1.71	1.24	37	

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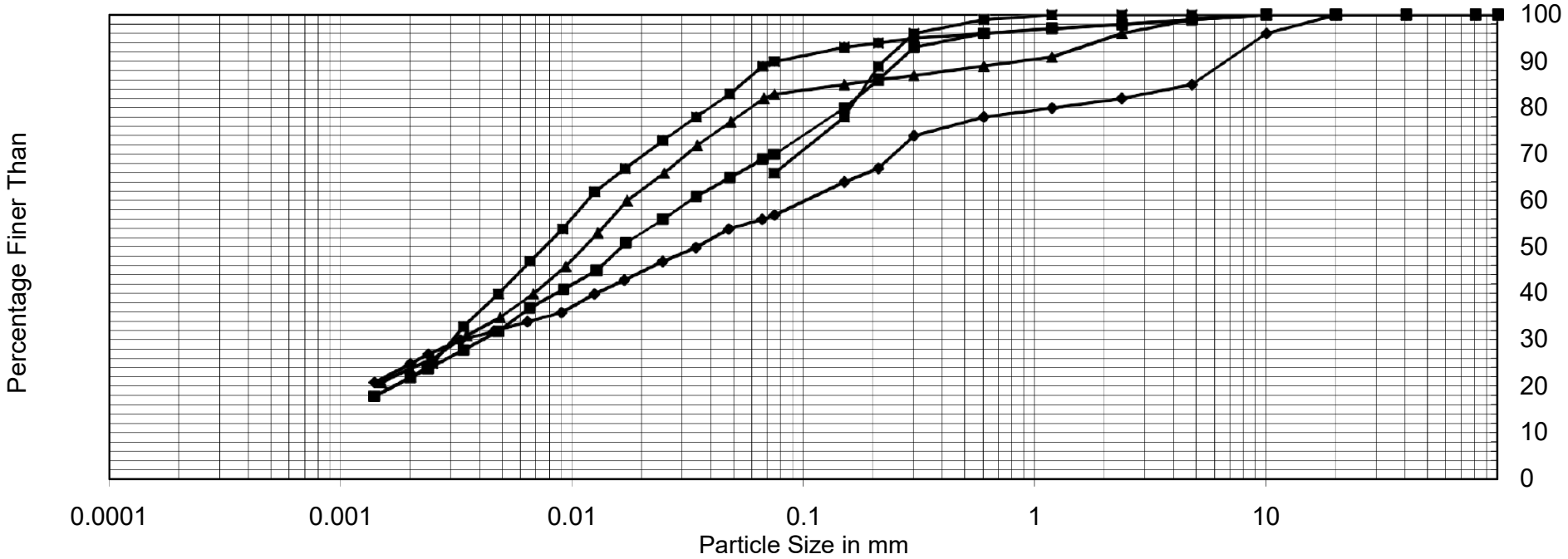
Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 06	621234.605031	2457716.601500	CH	1	29	48	22	----	----	----	----	----	52	28	24	SS
■-■	SS 07	621740.143680	2457809.095340	CH	15	28	32	25	----	----	----	----	----	58	26	32	SS
▲-▲	SS 08	622246.368259	2457813.096990	CH	1	16	59	24	----	----	----	----	----	53	28	25	SS
✳-✳	SS 09	621758.745542	2457297.919480	CI	0	34	6		----	----	----	----	----	45	26	19	SS
◆-◆	SS 10	622258.568350	2457321.580990	CH	1	9	68	22	----	----	----	----	----	58	28	30	SS

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SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific Gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 11	622259.838657	2456813.172950	SS	----	CI	1	28	51	20	40	25	15	----	VL	0.047	----	1.66	1.19	40	
SS 12	622774.926329	2456817.26173	SS	----	CH	2	20	50	28	69	27	42	----	VL	0.074	----	1.64	1.20	37	
SS 13	622316.056316	2456373.28709	SS	----	CH	13	24	41	22	77	34	43	----	DS UU	0.286	17.65	1.82	1.34	36	
SS 14	622766.708906	2456331.08983	SS	----	CI	0	38	62		49	27	22	----	DS UU	0.054	22.10	1.66	1.24	34	
SS 15	623260.075478	2456321.12874	SS	----	CH	0	6	62	32	54	27	27	----	DS UU	0.079	19.23	1.65	1.28	29	

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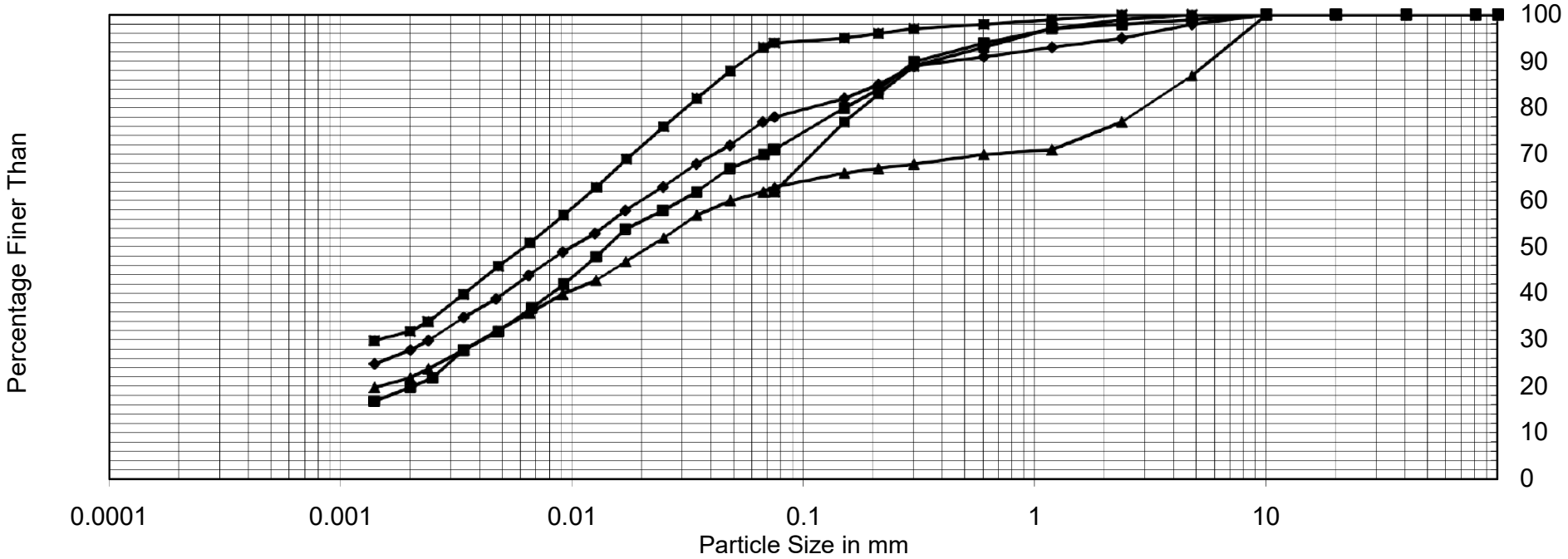
Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 11	622259.838657	2456813.172950	CI	1	28	51	20	----	----	----	----	----	40	25	15	SS
■-■	SS 12	622774.926329	2456817.261730	CH	2	20	50	28	----	----	----	----	----	69	27	42	SS
▲-▲	SS 13	622316.056316	2456373.287090	CH	13	24	41	22	----	----	----	----	----	77	34	43	SS
✳-✳	SS 14	622766.708906	2456331.089830	CI	0	38	6		----	----	----	----	----	49	27	22	SS
◆-◆	SS 15	623260.075478	2456321.128740	CH	0	6	62	32	----	----	----	----	----	54	27	27	SS

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SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific Gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 16	62765.087282	2455880.71803	SS	----	CH	1	49	28	22	51	28	23	----	DS UU	0.088	20.51	1.53	1.03	48	
SS 17	623284.417122	2455821.29155	SS	----	CH	1	30	50	19	50	27	23	----	DS UU	0.132	18.42	1.71	1.31	30	
SS 18	623770.727890	2455845.07061	SS	----	SP	33	62	5		----	----	----	----	----	----	----	----	----	----	
SS 19	624270.993105	2455814.78990	SS	----	CI	4	28	68		47	25	22	----	VL	0.054	----	1.65	1.13	46	
SS 20	623777.743772	2455325.22362	SS	----	CH	2	29	49	20	53	29	24	----	VL	0.058	----	1.63	1.07	52	

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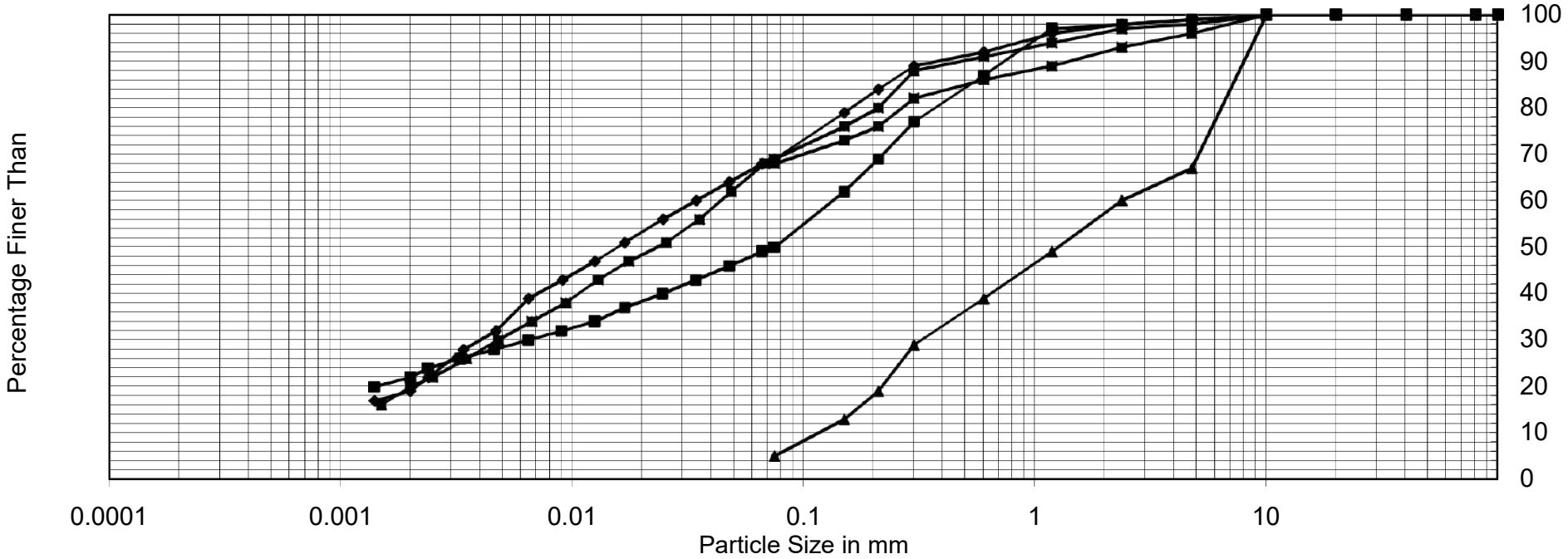
Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 16	62765.087282	2455880.718030	CH	1	49	28	22	----	----	----	----	----	51	28	23	SS
■-■	SS 17	623284.417122	2455821.291550	CH	1	30	50	19	----	----	----	----	----	50	27	23	SS
▲-▲	SS 18	623770.727890	2455845.070610	SP	33	62	5		0.12	0.32	2.36	19.667	0.362	----	----	----	SS
✳-✳	SS 19	624270.993105	2455814.789900	CI	4	28	6		----	----	----	----	----	47	25	22	SS
◆-◆	SS 20	623777.743772	2455325.223620	CH	2	29	49	20	----	----	----	----	----	53	29	24	SS

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SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific Gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	gm/cm^3		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 21.1	624274.880197	2455340.63582	SS	----	CH	0	15	47	38	64	28	36	----	VL	0.053	----	1.41	0.80	76	
SS 21.2			SS	----	CH	0	16	84		69	29	40	----	VL	0.047	----	1.27	0.67	90	
SS 22	624278.982525	2454840.13643	SS	----	GP	89	9	2		----	----	----	----	----	----	----	----	----	----	
SS 23	624778.966854	2454844.11817	SS	----	CH	10	23	41	26	50	28	22	----	DS UU	0.314	22.90	1.78	1.28	39	
SS 24	625279.274920	2454808.60136	SS	----	CH	1	30	38	31	67	26	41	----	VL	0.049	----	1.37	0.82	67	

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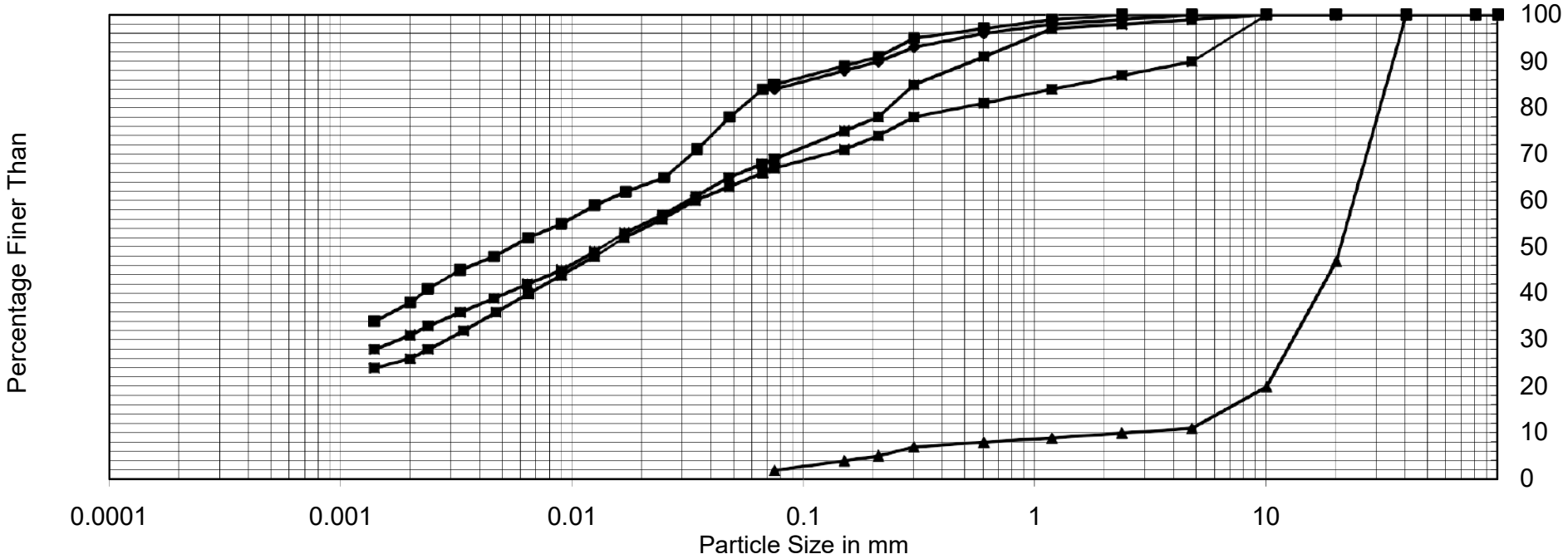
Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●●	SS 21.1	624274.880197	2455340.635820	CH	0	15	47	38	----	----	----	----	----	64	28	36	SS
■■	SS 21.2			CH	0	16	84		----	----	----	----	----	69	29	40	SS
▲▲	SS 22	624278.982525	2454840.136430	GP	89	9	2		2.36	21.0	24.0	10.169	7.786	----	----	----	SS
✳✳	SS 23	624778.966854	2454844.118170	CH	10	23	41	26	----	----	----	----	----	50	28	22	SS
◆◆	SS 24	625279.274920	2454808.601360	CH	1	30	38	31	----	----	----	----	----	67	26	41	SS

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SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 25	624783.230334	2454323.85989	SS	----	CH	0	16	57	27	73	29	44	----	VL	0.042	----	1.40	0.81	72	
SS 26	624283.299957	2454313.29317	SS	----	SM	22	32	46		37	29	8	----	DS UU	0.116	32.39	1.67	1.14	46	
SS 27	625283.160566	2454334.44413	SS	----	CH	0	21	52	27	69	32	37	----	VL	0.030	----	1.37	0.76	81	
SS 28	625783.198604	2454331.87199	SS	----	CH	3	34	43	20	58	30	28	----	DS UU	0.089	21.05	1.67	1.23	35	
SS 29	626289.163671	2454345.52903	SS	----	CH	1	43	29	27	70	32	38	----	VL	0.051	----	1.35	0.75	81	

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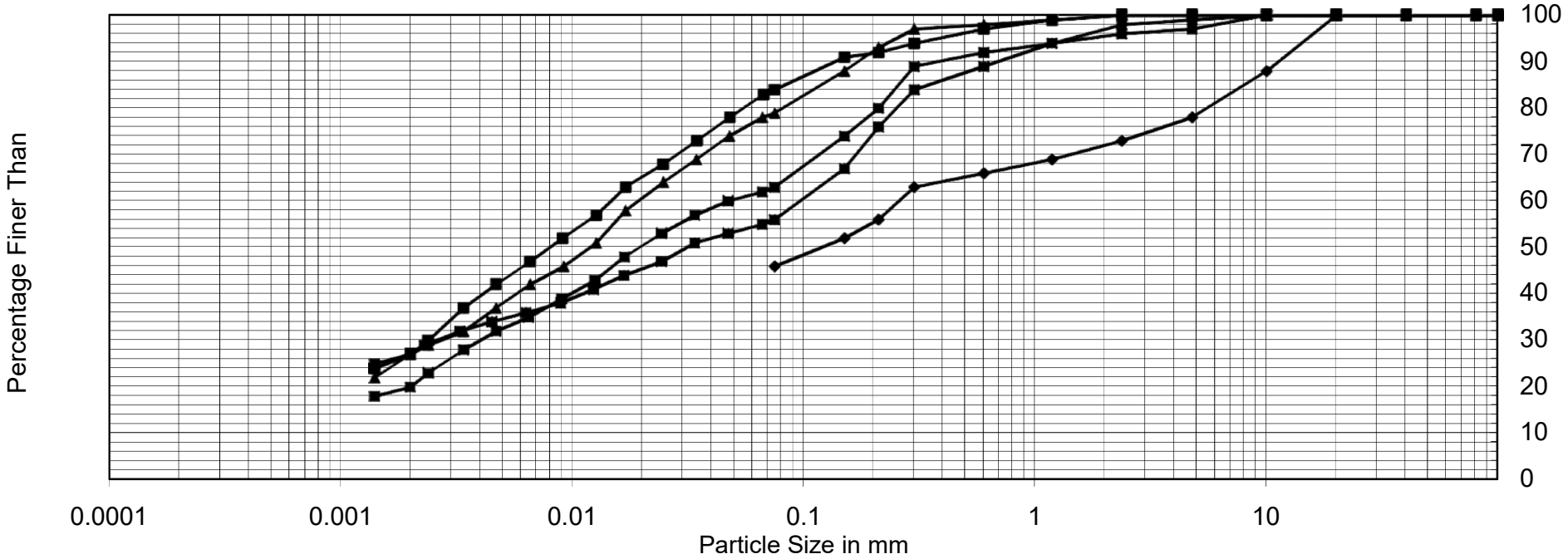
Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 25	624783.230334	2454323.859890	CH	0	16	57	27	----	----	----	----	----	73	29	44	SS
■-■	SS 26	624283.299957	2454313.293170	SM	22	32	4		----	----	----	----	----	37	29	8	SS
▲-▲	SS 27	625283.160566	2454334.444130	CH	0	21	52	27	----	----	----	----	----	69	32	37	SS
✳-✳	SS 28	625783.198604	2454331.871990	CH	3	34	43	20	----	----	----	----	----	58	30	28	SS
◆-◆	SS 29	626289.163671	2454345.529030	CH	1	43	29	27	----	----	----	----	----	70	32	38	SS

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SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 30	624787.287950	2453828.62868	SS	----	CH	0	14	58	28	58	25	33	----	VL	0.040	----	1.43	0.92	55	
SS 31.1	625293.483576	2453837.40184	SS	----	CH	0	25	75		63	24	39	----	VL	0.049	----	1.46	0.76	93	
SS 31.2			SS	----	CH	0	16	57	27	66	33	33	----	DS UU	0.076	18.84	1.70	1.19	43	
SS 32.1	625787.148329	2453849.81032	SS	----	CH	0	7	65	28	78	33	45	----	VL	0.056	----	1.36	0.79	72	
SS 32.2			SS	----	CH	0	21	79		66	31	35	----	VL	0.051	----	1.47	0.82	78	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247 / 0113

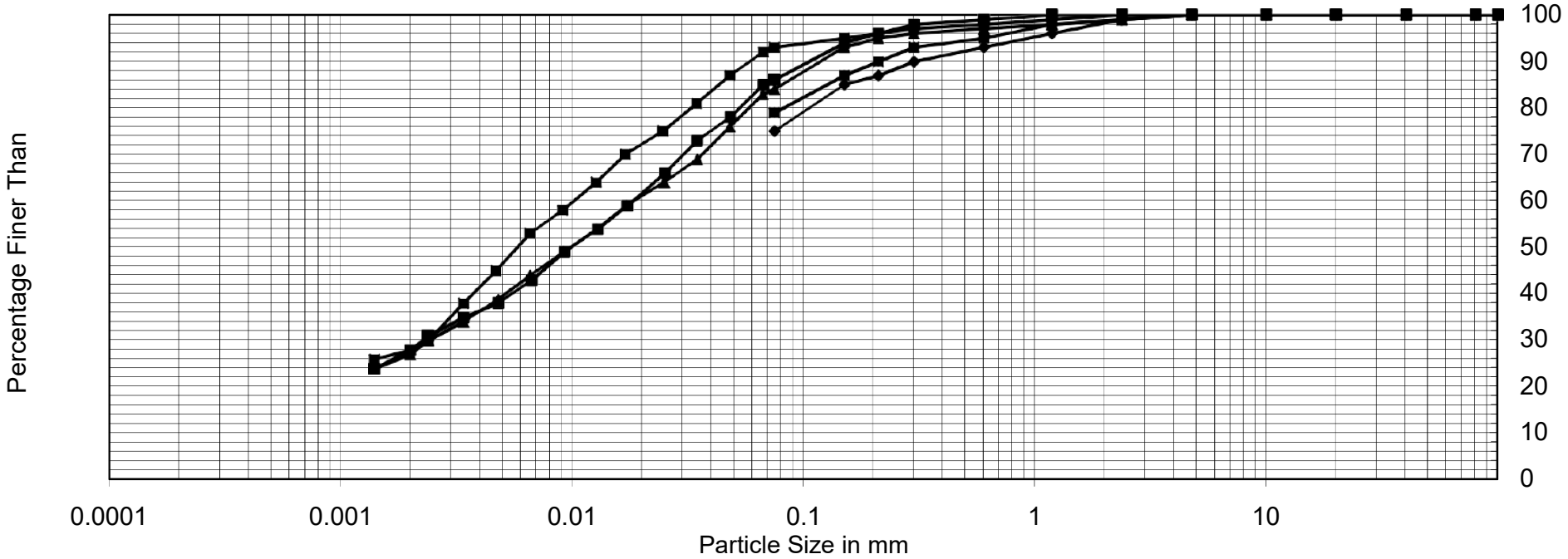
Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 30	624787.287950	2453828.628680	CH	0	14	58	28	----	----	----	----	----	58	25	33	SS
■-■	SS 31.1	625293.483576	2453837.401840	CH	0	25	7		----	----	----	----	----	63	24	39	SS
▲-▲	SS 31.2			CH	0	16	57	27	----	----	----	----	----	66	33	33	SS
✳-✳	SS 32.1	625787.148329	2453849.810320	CH	0	7	65	28	----	----	----	----	----	78	33	45	SS
◆-◆	SS 32.2			CH	0	21	79		----	----	----	----	----	66	31	35	SS

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247112

Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 33	626293.201783	2453845.54563	SS	----	CH	0	36	43	21	55	27	28	----	VL	0.058	----	1.61	1.18	37	
SS 34	624791.226127	2453347.88738	SS	----	SM	3	49	48		39	26	13	----	VL	0.058	----	1.53	1.15	33	
SS 35	626888.982295	2453341.62789	SS	----	CH	0	37	35	28	56	25	31	----	VL	0.058	----	1.48	0.79	87	
SS 36	626694.036401	2453723.30288	SS	----	CH	0	17	49	34	65	25	40	----	VL	0.056	----	1.38	0.80	73	
SS 37	625791.302311	2453342.72449	SS	----	CH	10	28	62		65	27	38	----	VL	0.063	----	1.63	1.17	40	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247 / 0113

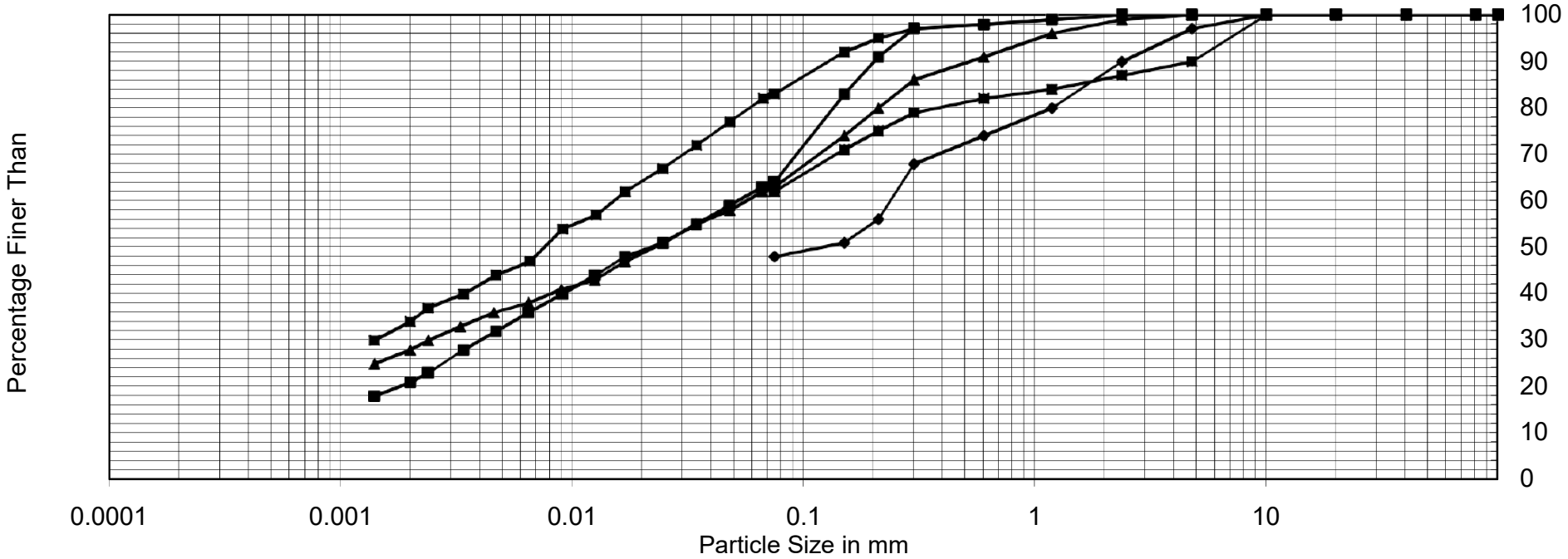
Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●●	SS 33	626293.201783	2453845.545630	CH	0	36	43	21	----	----	----	----	----	55	27	28	SS
■■	SS 34	624791.226127	2453347.887380	SM	3	49	48		----	----	----	----	----	39	26	13	SS
▲▲	SS 35	626888.982295	2453341.627890	CH	0	37	35	28	----	----	----	----	----	56	25	31	SS
✳✳	SS 36	626694.036401	2453723.302880	CH	0	17	49	34	----	----	----	----	----	65	25	40	SS
◆◆	SS 37	625791.302311	2453342.724490	CH	10	28	62		----	----	----	----	----	65	27	38	SS

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247112

Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 38	624765.486092	2456833.22251	SS	----	CH	5	34	40	21	55	27	28	----	DS UU	0.078	20.80	1.72	1.30	32	
SS 39	625260.841775	2457056.79802	SS	----	CH	8	34	38	20	55	28	27	----	DS UU	0.090	23.18	1.72	1.28	34	
SS 40	625748.719543	2457341.21620	SS	----	CH	1	35	38	26	52	26	26	----	VL	0.068	----	1.64	1.16	41	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247 / 0113

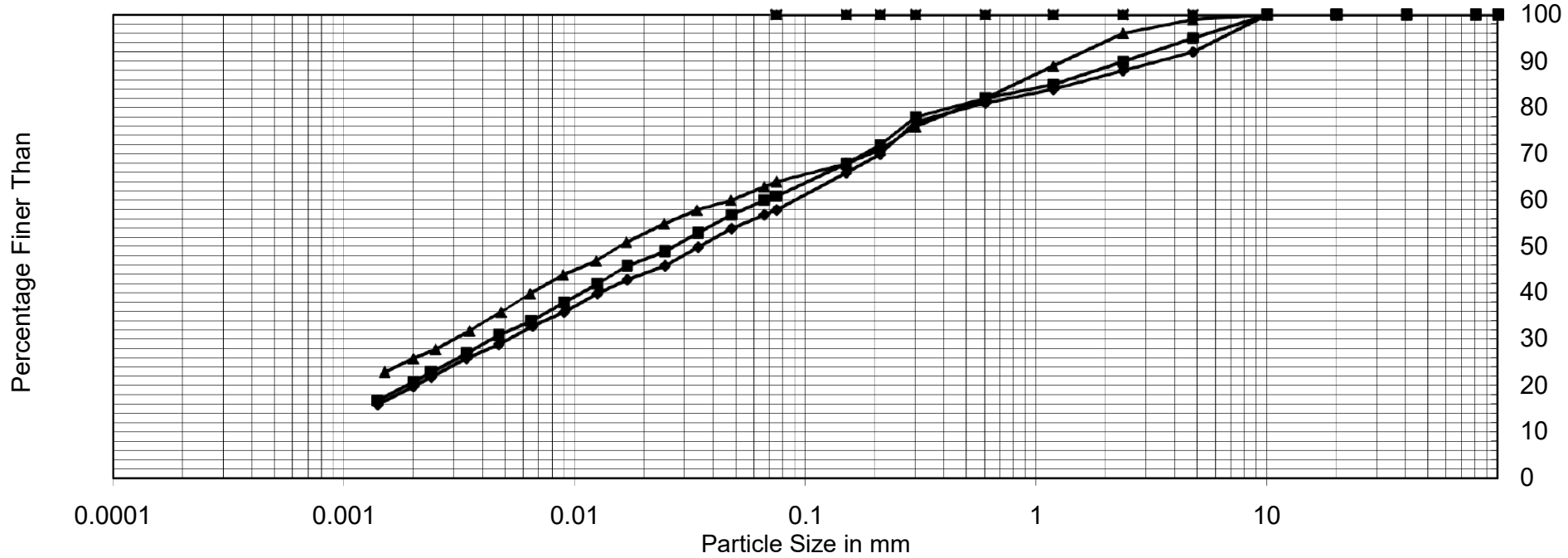
Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

Project: Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client: Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 38	624765.486092	2456833.222510	CH	5	34	40	21	----	----	----	----	----	55	27	28	SS
■-■	SS 39	625260.841775	2457056.798020	CH	8	34	38	20	----	----	----	----	----	55	28	27	SS
▲-▲	SS 40	625748.719543	2457341.216200	CH	1	35	38	26	----	----	----	----	----	52	26	26	SS
✳-✳																	
◆-◆																	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247112

Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 41.1	626269.929311	2457345.47027	SS	----	CH	2	25	47	26	58	29	29	----	DS UU	0.079	14.24	1.41	0.86	64	
SS 41.2			SS	----	CH	1	33	66		82	31	51	----	VL	0.058	----	1.49	0.86	73	
SS 41.3			SS	----	CH	1	28	45	26	83	34	49	----	VL	0.063	----	1.41	0.76	86	
SS 42	626399.557612	2457846.54745	SS	----	CH	0	27	46	27	55	27	28	----	VL	0.068	----	1.61	1.11	45	
SS 43	625767.993311	2457841.38948	SS	----	CH	1	38	37	24	52	27	25	----	VL	0.051	----	1.44	0.82	76	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247 / 0113

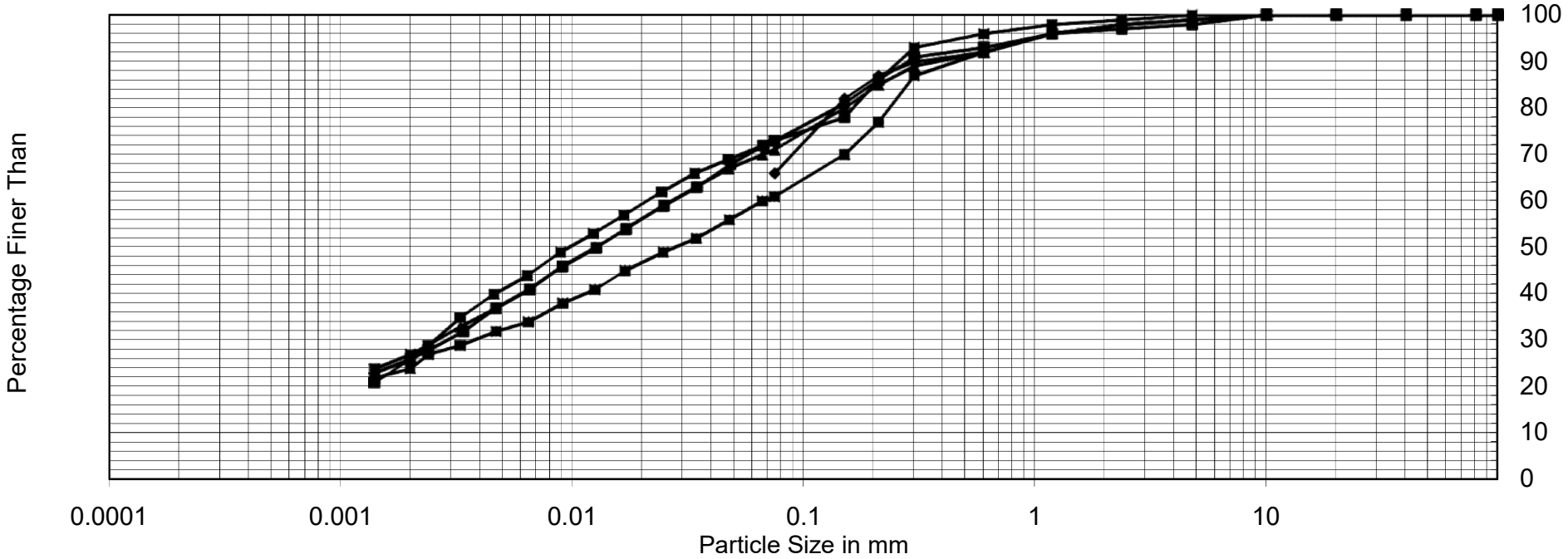
Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●-●	SS 41.1	626269.929311	2457345.470270	CH	2	25	47	26	----	----	----	----	----	58	29	29	SS
■-■	SS 41.2			CH	1	33	6		----	----	----	----	----	82	31	51	SS
▲-▲	SS 41.3			CH	1	28	45	26	----	----	----	----	----	83	34	49	SS
✳-✳	SS 42	626399.557612	2457846.547450	CH	0	27	46	27	----	----	----	----	----	55	27	28	SS
◆-◆	SS 43	625767.993311	2457841.389480	CH	1	38	37	24	----	----	----	----	----	52	27	25	SS

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Page No. : 22

Report No. : PCFPL / L 0247112

Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

SOIL TEST RESULTS

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

*Sample ID	*Co - Ordinate in mtrs.		Type Of Sample	Specific gravity	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Density		Natural Moisture Content	Remarks
						Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree	Wet	Dry		
No.	Easting X	Northing Y	UDS / SPT	G	IS	%	%	%	%	%	%	%	%	kg/cm²		ϕ	gm/cm³		%	
IS Ref. / Part No.				2720 / 03	1498	2720 / 04				2720 / 05			2720 / 06	2720 / 30, 2720 / 13			2720 / 07		2720 / 02	
SS 44	622494.163920	2455599.23676	SS	----	CH	5	25	44	26	52	27	25	----	VL	0.060	----	1.54	1.04	49	
SS 45	623111.828476	2455432.85634	SS	----	CH	1	16	53	30	50	21	29	----	VL	0.053	----	1.69	1.19	42	
SS 46	622851.186168	2455010.49226	SS	----	SM	23	42	35		----	----	----	----	DS UU	0.049	32.36	1.64	1.11	48	
SS 47	622542.423710	2454590.78581	SS	----	SM	9	52	39		----	----	----	----	DS UU	0.017	32.64	1.64	1.21	35	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

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Report No. : PCFPL / L 0247 / 0113

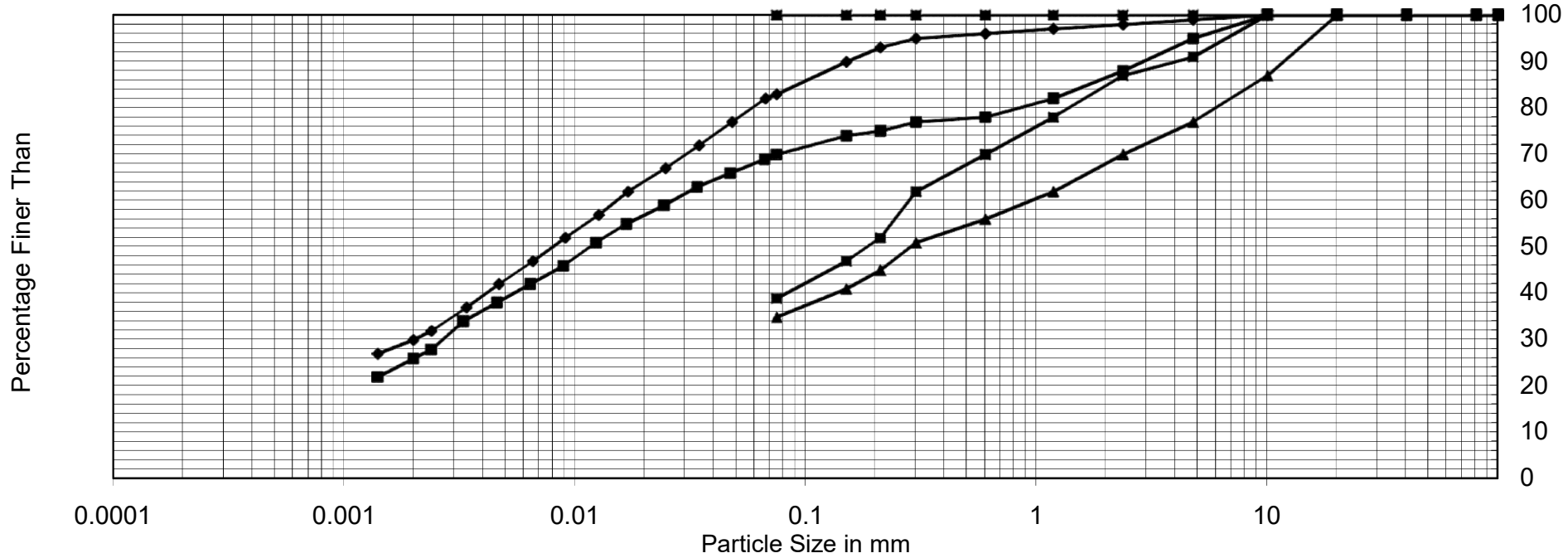
Date : 08.07.2021

Lab. Reference No. : 2021 / June / 0162

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

Client Zenith Surveys (I) Pvt. Ltd.

Grain Size Analysis



Symbol	*Sample ID	*Co - Ordinate in mtrs.		Classification	Gravel	Sand	Silt	Clay	$\phi_{10\%}$	$\phi_{30\%}$	$\phi_{60\%}$	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit	Plastic Limit	Plasticity Index	Type Of Sample
	No.	Easting X	Northing Y	IS	%	%	%	%	mm	mm	mm			%	%	%	
●—●	SS 44	622494.163920	2455599.236760	CH	5	25	44	26	----	----	----	----	----	52	27	25	SS
■—■	SS 45	623111.828476	2455432.856340	CH	1	16	53	30	----	----	----	----	----	50	21	29	SS
▲—▲	SS 46	622851.186168	2455010.492260	SM	23	42	35		----	----	----	----	----	----	----	----	SS
✳—✳	SS 47	622542.423710	2454590.785810	SM	9	52	39		----	----	----	----	----	----	----	----	SS
◆—◆																	

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

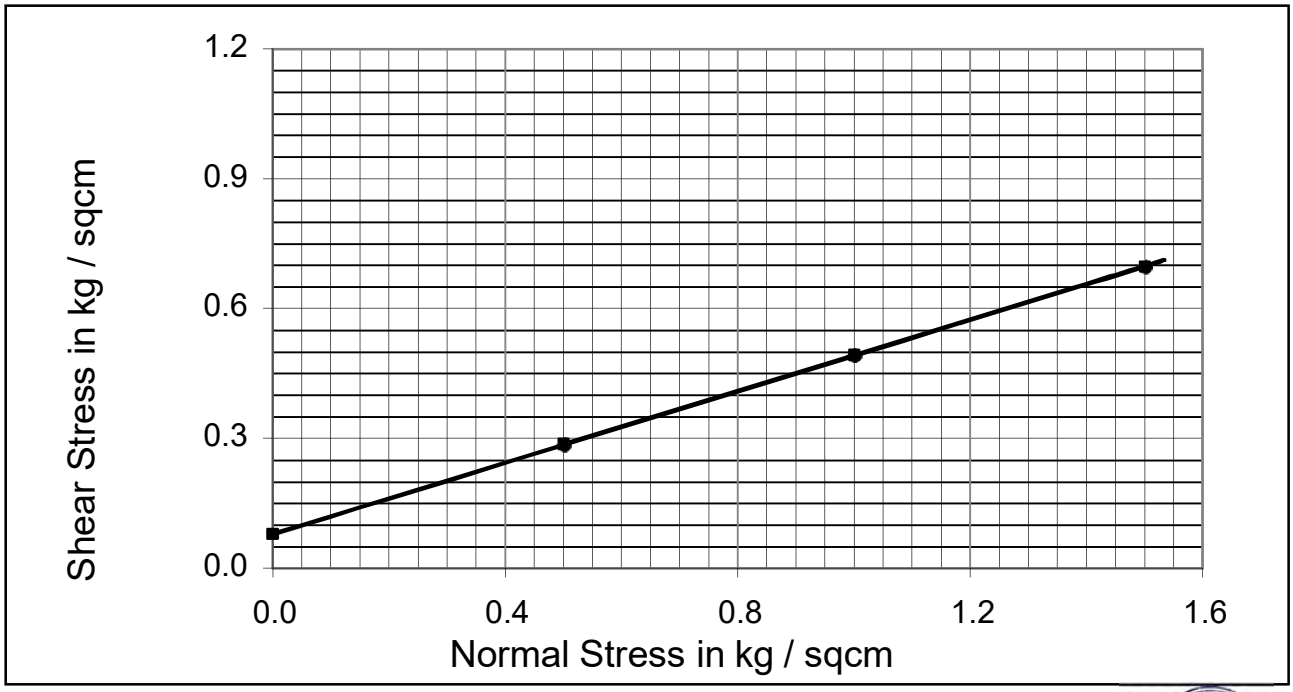
Client Zenith Surveys (I) Pvt. Ltd.

Date : 27.06.2021

Sample ID : SS 05

Width Of Specime	6.000	cm	Co - Ordinate X :	620757.125575	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2457801.371560	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.678	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.225	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	37.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	18.0	8.63	480	0.480	8.00	30.24	0.285	
2	1.00	31.0	14.87	480	0.480	8.00	30.24	0.492	
3	1.50	44.0	21.10	480	0.480	8.00	30.24	0.698	



Cohesion C_u kg/cm^2 : 0.079 Angle Of Internal Friction ϕ^o : 22.41

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

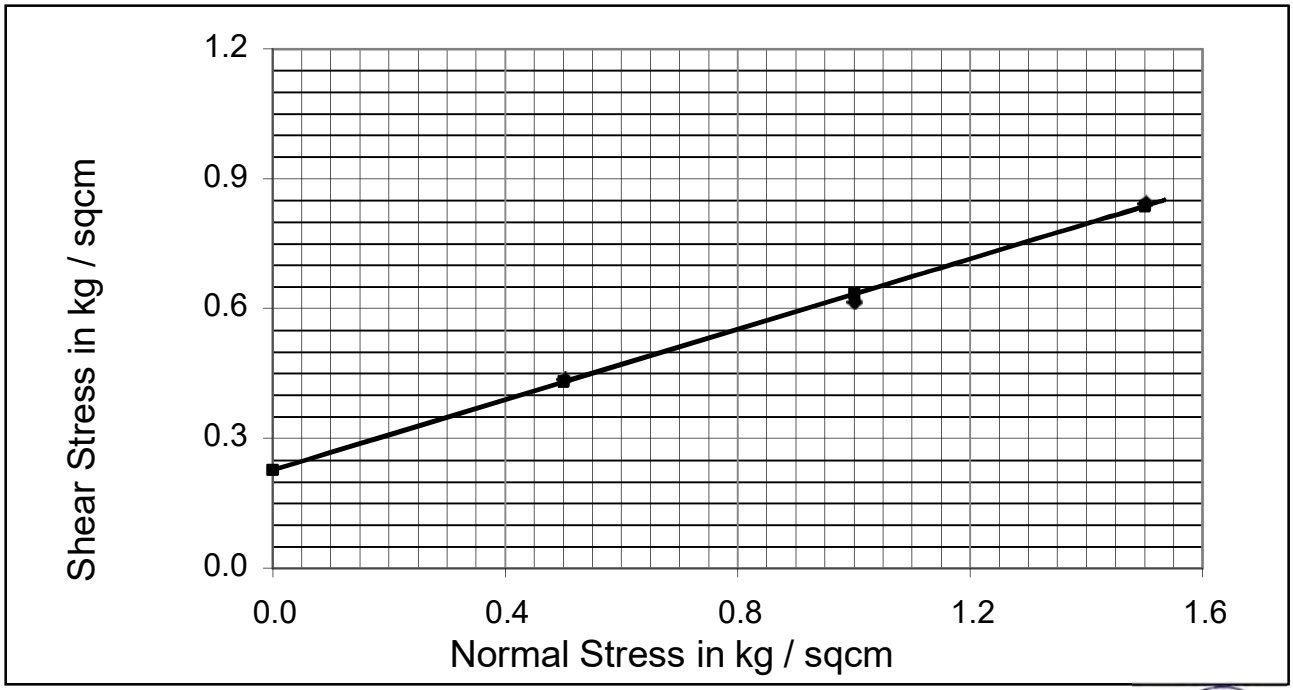
Client Zenith Surveys (I) Pvt. Ltd.

Date : 17.06.2021

Sample ID : SS 08

Width Of Specime	6.000	cm	Co - Ordinate X :	622246.368259	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2457813.096990	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.613	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.186	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	36.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	27.0	12.95	540	0.540	9.00	29.52	0.439	
2	1.00	38.0	18.22	540	0.540	9.00	29.52	0.617	
3	1.50	52.0	24.94	540	0.540	9.00	29.52	0.845	



Cohesion C_u kg/cm^2 : 0.227 Angle Of Internal Friction ϕ^o : 22.10

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

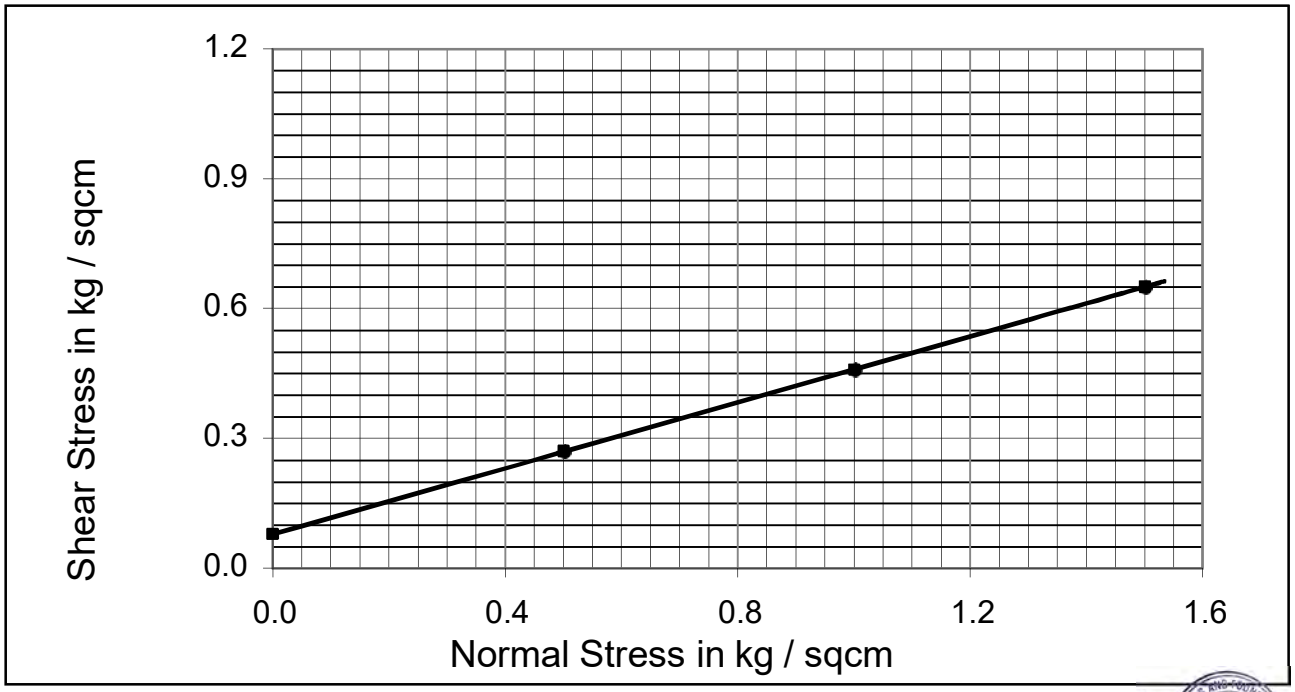
Client Zenith Surveys (I) Pvt. Ltd.

Date : 22.06.2021

Sample ID : SS 09

Width Of Specime	6.000	cm	Co - Ordinate X :	621758.745542	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2457297.919480	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.672	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.239	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	35.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	17.0	8.15	480	0.480	8.00	30.24	0.270	
2	1.00	29.0	13.91	480	0.480	8.00	30.24	0.460	
3	1.50	41.0	19.66	480	0.480	8.00	30.24	0.650	



Cohesion C_u kg/cm^2 : 0.079 Angle Of Internal Friction ϕ^o : 20.84

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

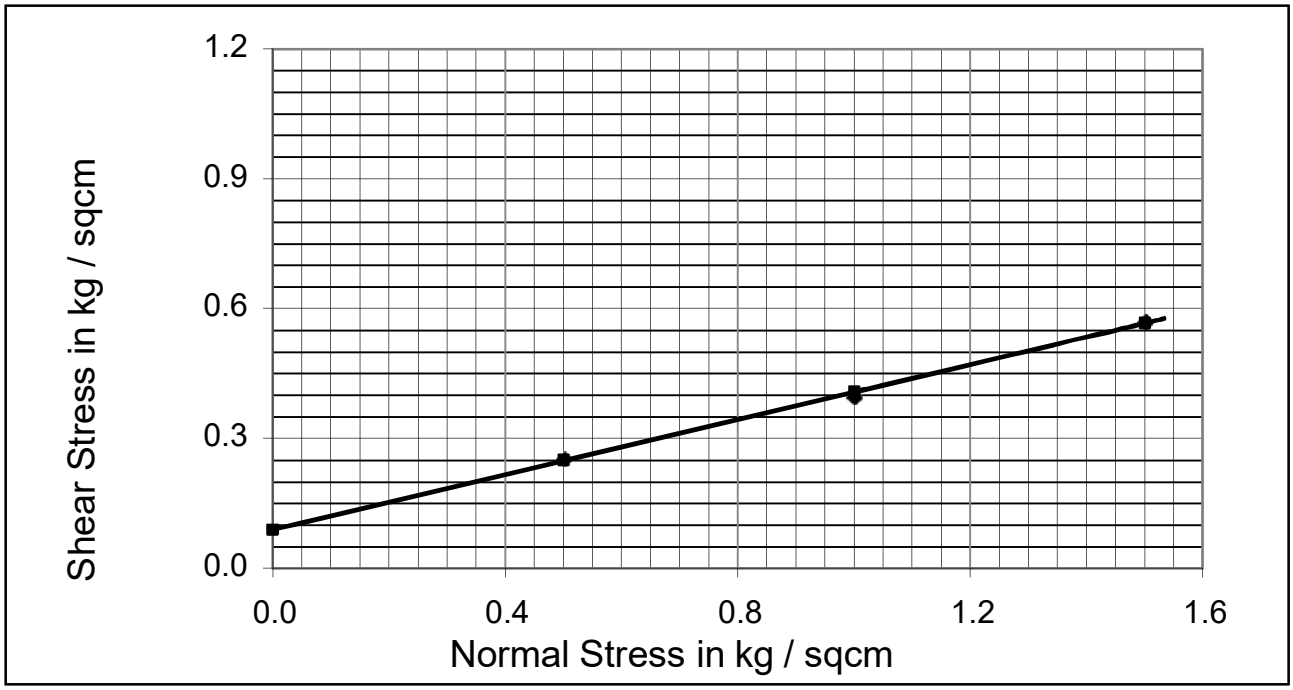
Client Zenith Surveys (I) Pvt. Ltd.

Date : 18.06.2021

Sample ID : SS 10

Width Of Specime	6.000	cm	Co - Ordinate X :	622258.568350	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2457321.580990	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.705	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.245	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	37.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	16.0	7.67	480	0.480	8.00	30.24	0.254	
2	1.00	25.0	11.99	480	0.480	8.00	30.24	0.396	
3	1.50	36.0	17.26	480	0.480	8.00	30.24	0.571	



Cohesion C_u kg/cm^2 : 0.090 Angle Of Internal Friction ϕ^o : 17.60

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

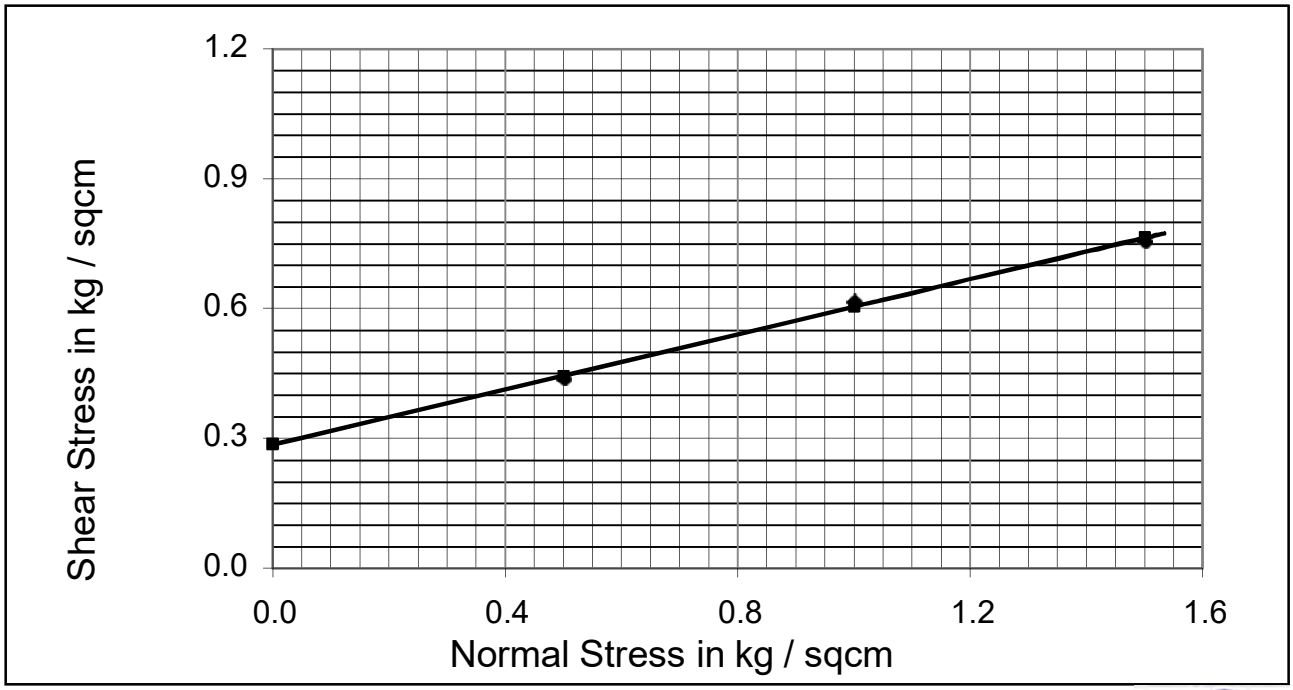
Client Zenith Surveys (I) Pvt. Ltd.

Date : 22.06.2021

Sample ID : SS 13

Width Of Specime	6.000	cm	Co - Ordinate X :	622316.056316	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2456373.287090	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.819	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.338	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	36.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	27.0	12.95	540	0.540	9.00	29.52	0.439	
2	1.00	38.0	18.22	540	0.540	9.00	29.52	0.617	
3	1.50	50.0	23.98	360	0.360	6.00	31.68	0.757	



Cohesion C_u kg/cm^2 : 0.286 Angle Of Internal Friction ϕ^o : 17.65

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

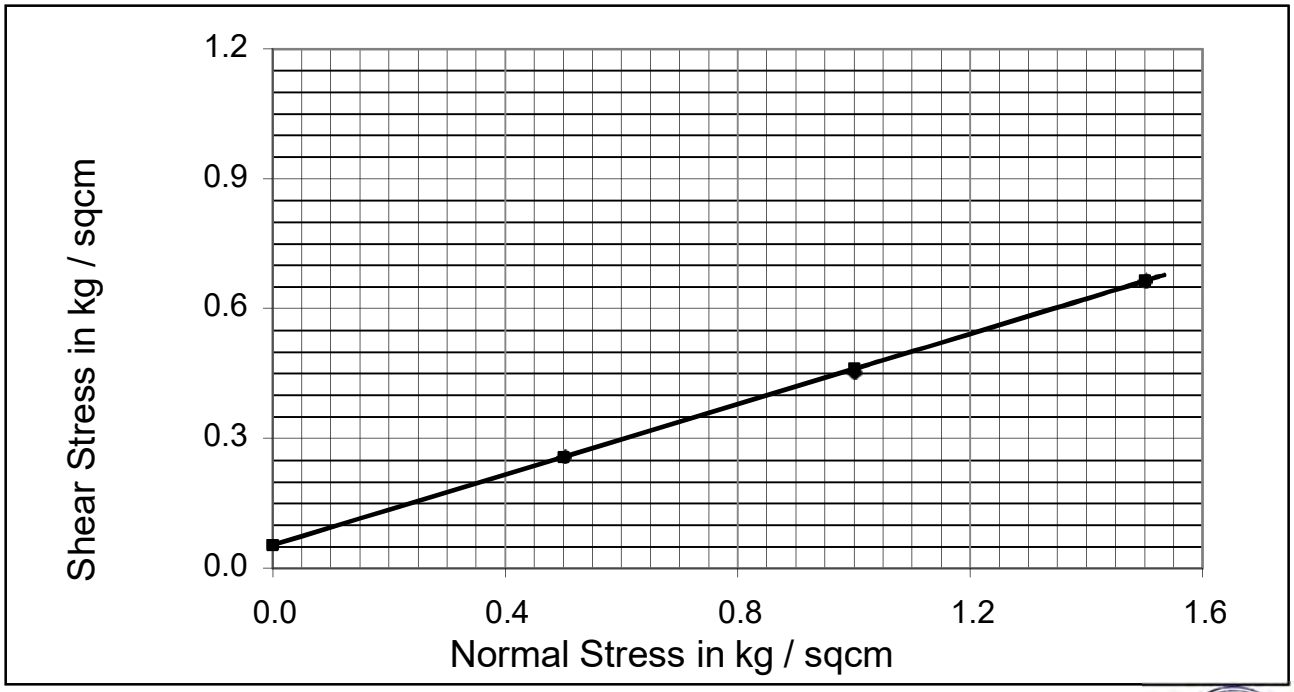
Client Zenith Surveys (I) Pvt. Ltd.

Date : 19.06.2021

Sample ID : SS 14

Width Of Specime	6.000	cm	Co - Ordinate X :	622766.708906	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2456331.089830	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.656	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.236	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	34.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	16.0	7.67	540	0.540	9.00	29.52	0.260	
2	1.00	28.0	13.43	540	0.540	9.00	29.52	0.455	
3	1.50	41.0	19.66	540	0.540	9.00	29.52	0.666	



Cohesion C_u kg/cm^2 : 0.054 Angle Of Internal Friction ϕ^o : 22.10

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project: Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

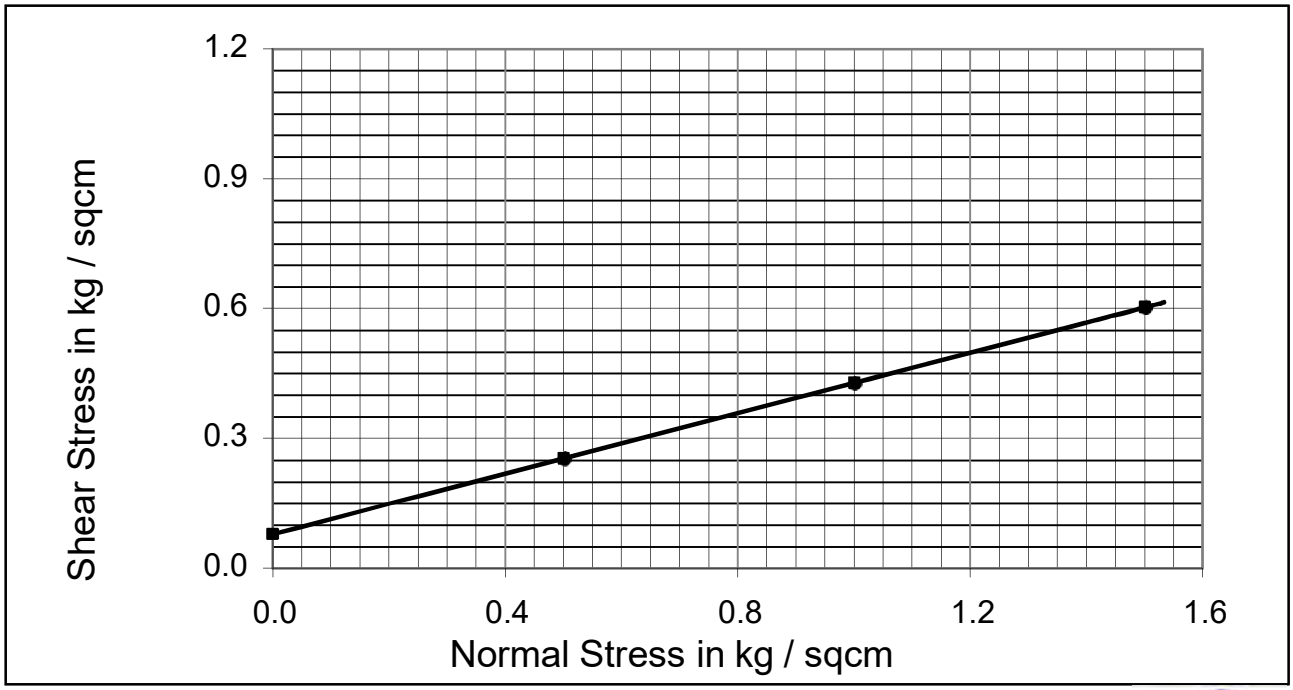
Client: Zenith Surveys (I) Pvt. Ltd.

Date : 19.06.2021

Sample ID : SS 15

Width Of Specime	6.000	cm	Co - Ordinate X :	623262.075478	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2456321.128740	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.654	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.282	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	29.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	16.0	7.67	480	0.480	8.00	30.24	0.254	
2	1.00	27.0	12.95	480	0.480	8.00	30.24	0.428	
3	1.50	38.0	18.22	480	0.480	8.00	30.24	0.603	



Cohesion C_u kg/cm^2 : 0.079 Angle Of Internal Friction ϕ^o : 19.23

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 112

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project: Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

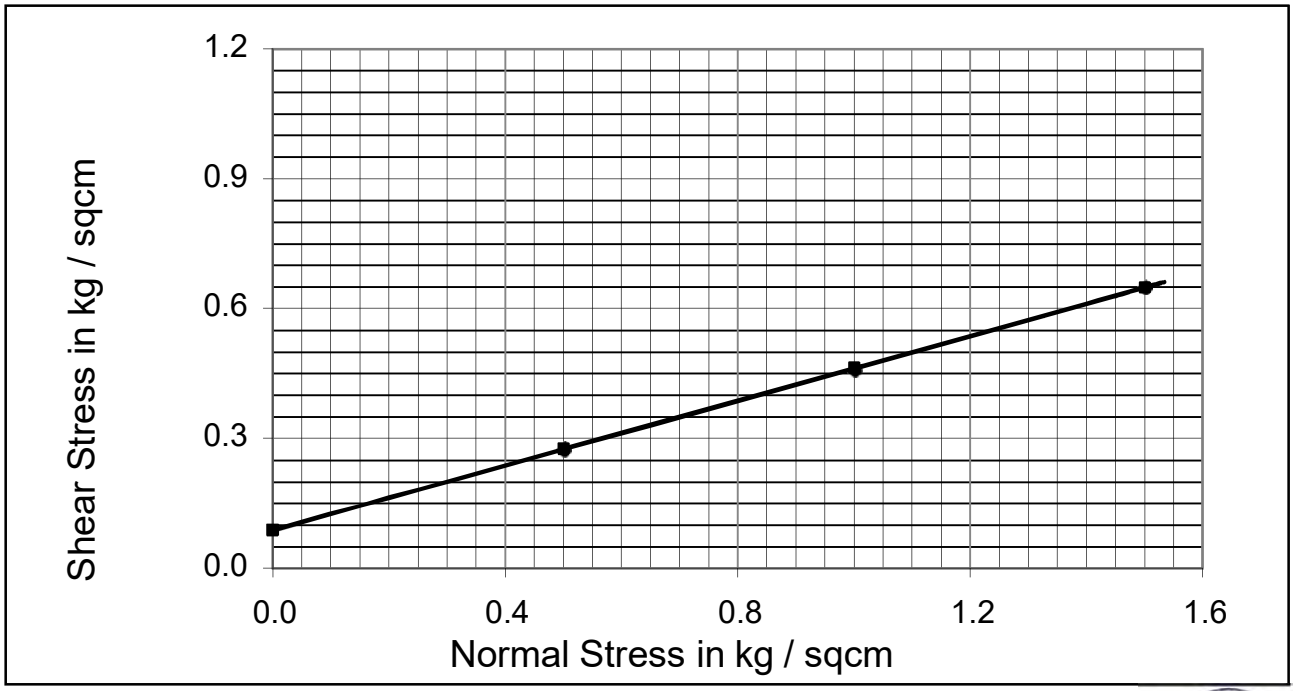
Client: Zenith Surveys (I) Pvt. Ltd.

Date : 29.06.2021

Sample ID : SS 16

Width Of Specime	6.000	cm	Co - Ordinate X :	622765.087282	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2455880.718030	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.525	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.030	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	48.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	17.0	8.15	540	0.540	9.00	29.52	0.276	
2	1.00	29.0	13.91	480	0.480	8.00	30.24	0.460	
3	1.50	41.0	19.66	480	0.480	8.00	30.24	0.650	



Cohesion C_u kg /cm^2 : 0.088 Angle Of Internal Friction ϕ^o : 20.51

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 112

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

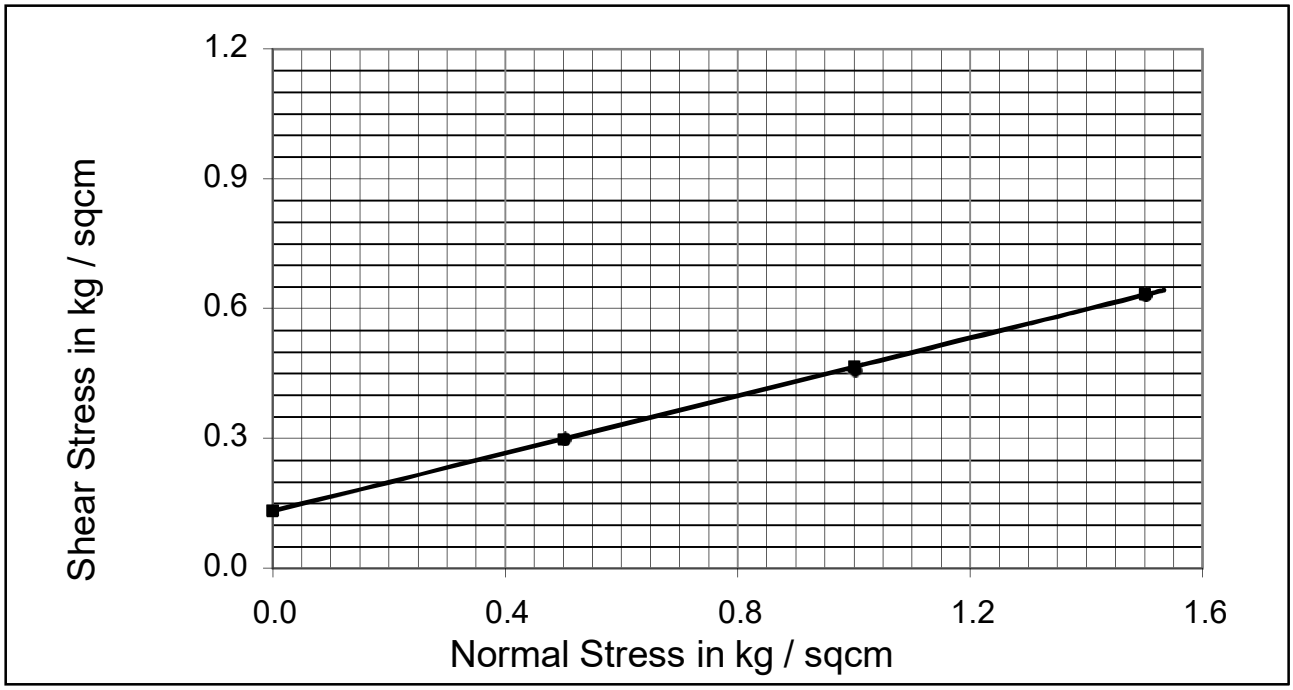
Client Zenith Surveys (I) Pvt. Ltd.

Date : 20.06.2021

Sample ID : SS 17

Width Of Specime	6.000	cm	Co - Ordinate X :	623284.417122	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2455821.291550	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.709	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.315	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	30.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	19.0	9.11	480	0.480	8.00	30.24	0.301	
2	1.00	29.0	13.91	480	0.480	8.00	30.24	0.460	
3	1.50	40.0	19.18	480	0.480	8.00	30.24	0.634	



Cohesion C_u kg/cm^2 : 0.132 Angle Of Internal Friction ϕ^o : 18.42

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

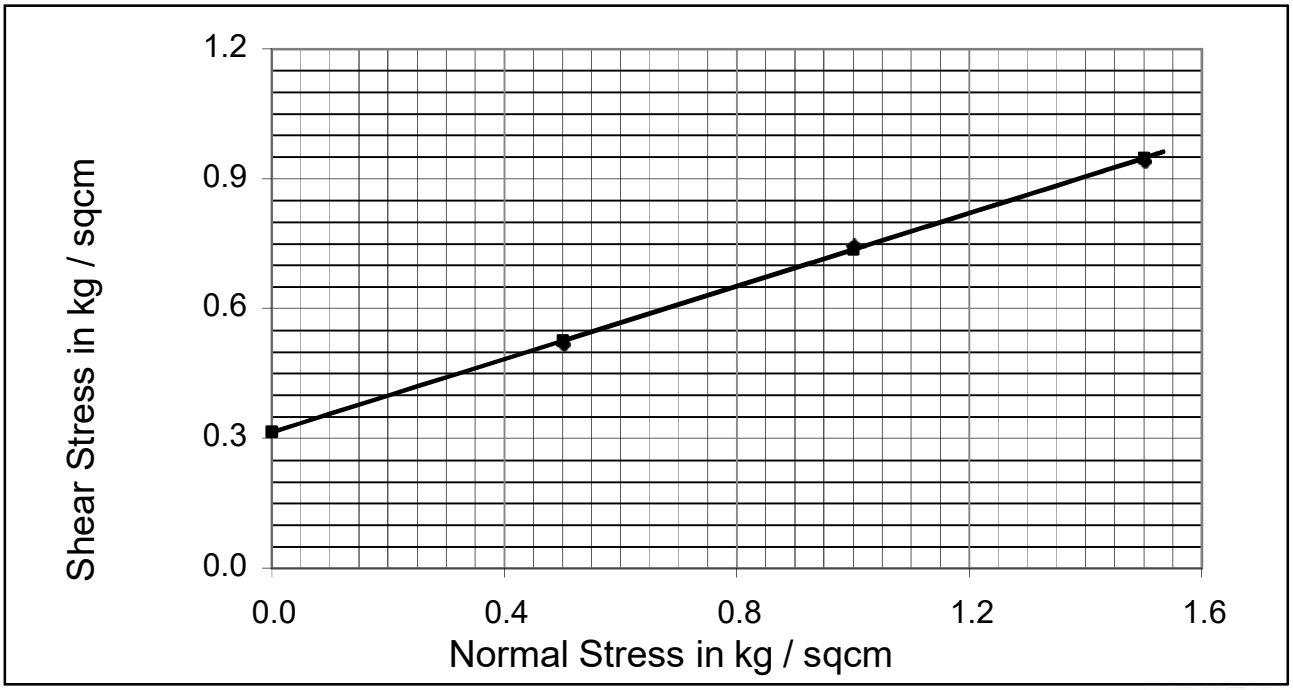
Client Zenith Surveys (I) Pvt. Ltd.

Date : 27.06.2021

Sample ID : SS 23

Width Of Specime	6.000	cm	Co - Ordinate X :	624778.966854	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2454844.118170	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.779	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.280	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	39.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	32.0	15.35	540	0.540	9.00	29.52	0.520	
2	1.00	46.0	22.06	540	0.540	9.00	29.52	0.747	
3	1.50	58.0	27.82	540	0.540	9.00	29.52	0.942	



Cohesion C_u kg /cm^2 : 0.314 Angle Of Internal Friction ϕ^o : 22.90

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

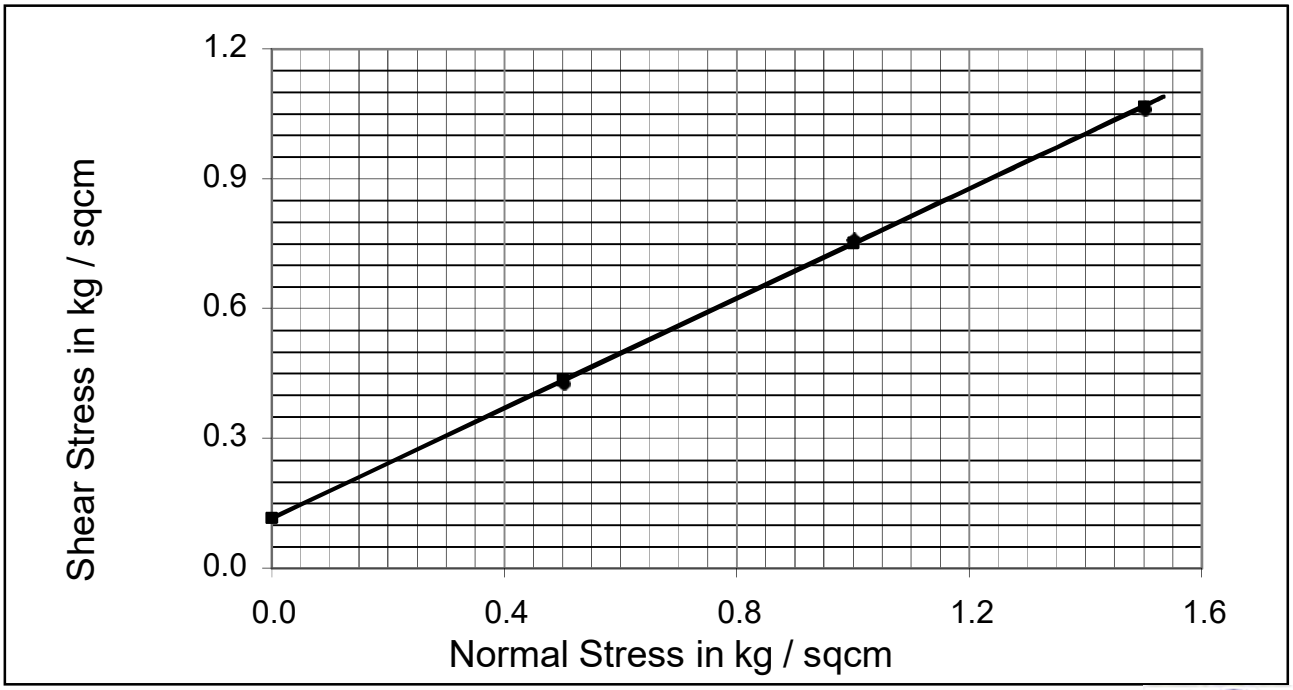
Client Zenith Surveys (I) Pvt. Ltd.

Date : 22.06.2021

Sample ID : SS 26

Width Of Specime	6.000	cm	Co - Ordinate X :	624283.299957	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2454313.293170	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.668	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.142	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	46.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	27.0	12.95	480	0.480	8.00	30.24	0.428	
2	1.00	48.0	23.02	480	0.480	8.00	30.24	0.761	
3	1.50	67.0	32.13	480	0.480	8.00	30.24	1.063	



Cohesion C_u kg/cm^2 : 0.116 Angle Of Internal Friction ϕ^o : 32.39

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

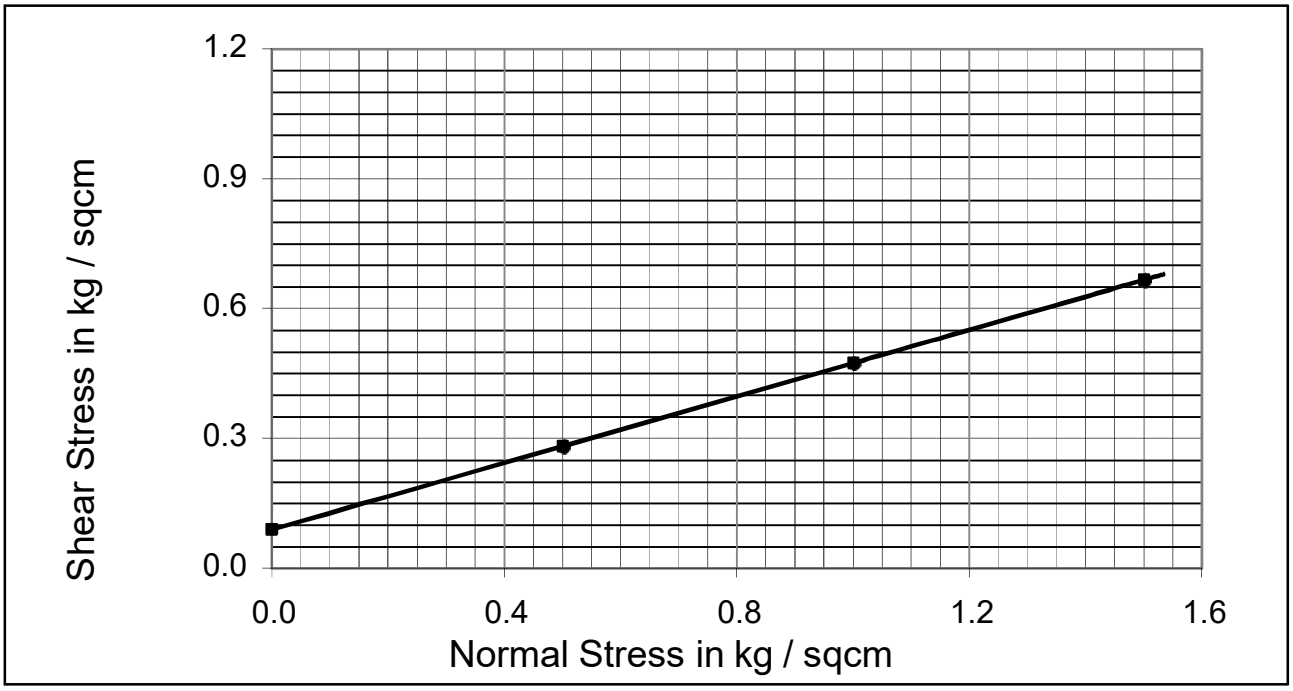
Client Zenith Surveys (I) Pvt. Ltd.

Date : 17.06.2021

Sample ID : SS 28

Width Of Specime	6.000	cm	Co - Ordinate X :	625783.198604	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2454331.871990	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.665	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.233	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	35.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	19.0	9.11	300	0.300	5.00	32.40	0.281	
2	1.00	32.0	15.35	300	0.300	5.00	32.40	0.474	
3	1.50	45.0	21.58	300	0.300	5.00	32.40	0.666	



Cohesion C_u kg /cm^2 : 0.089 Angle Of Internal Friction ϕ^o : 21.05

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

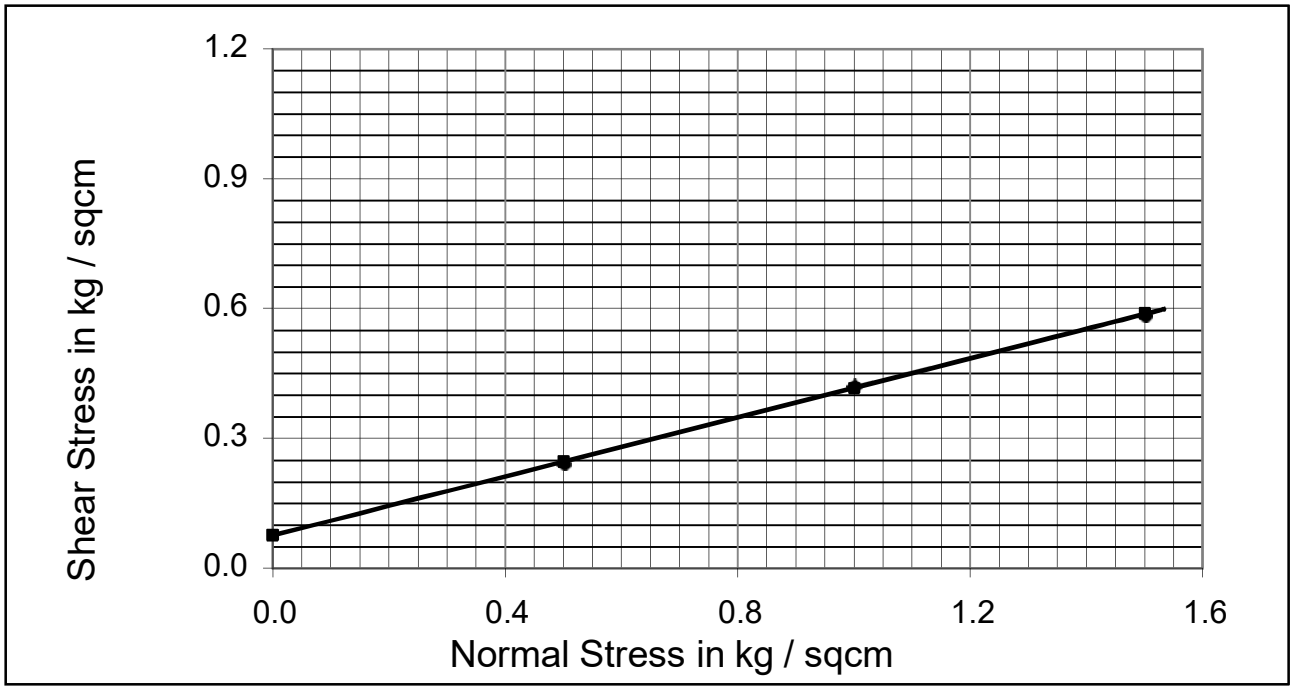
Client Zenith Surveys (I) Pvt. Ltd.

Date : 16.06.2021

Sample ID : SS 31.02

Width Of Specime	6.000	cm	Co - Ordinate X :	625293.483576	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2453837.401840	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.699	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.188	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	43.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	15.0	7.19	540	0.540	9.00	29.52	0.244	
2	1.00	26.0	12.47	540	0.540	9.00	29.52	0.422	
3	1.50	36.0	17.26	540	0.540	9.00	29.52	0.585	



Cohesion C_u kg /cm^2 : 0.076 Angle Of Internal Friction ϕ^o : 18.84

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

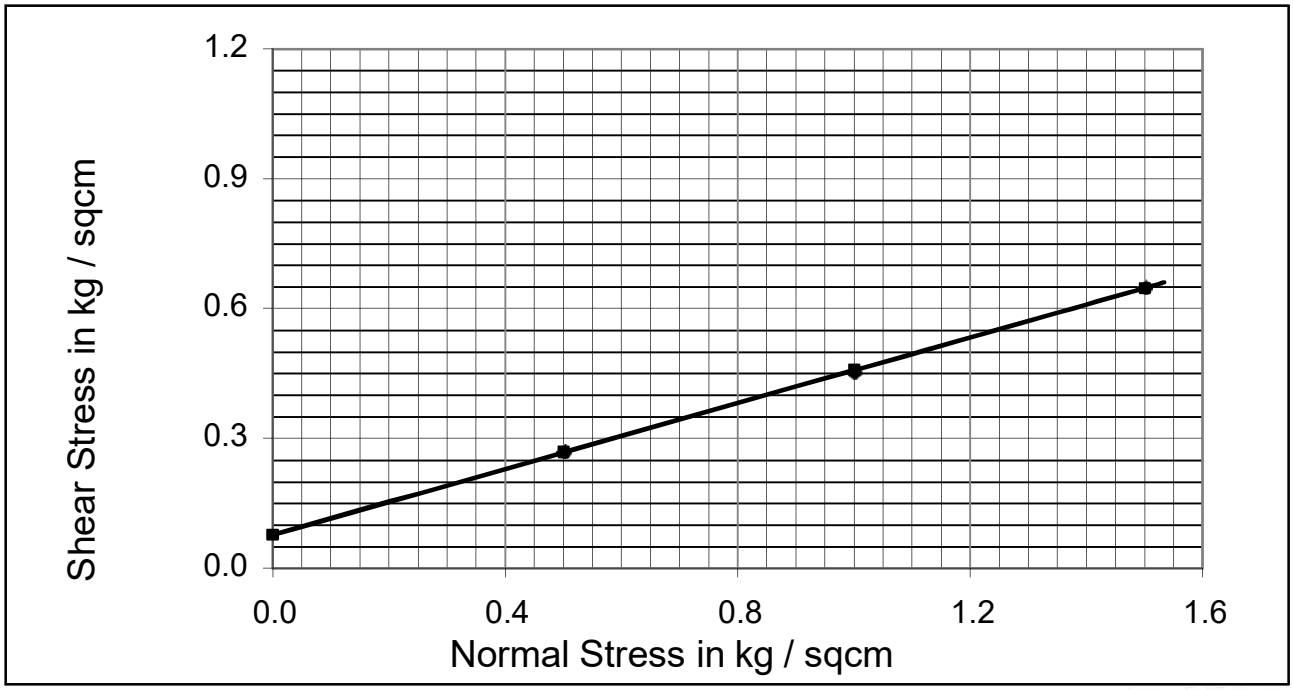
Client Zenith Surveys (I) Pvt. Ltd.

Date : 26.06.2021

Sample ID : SS 38

Width Of Specime	6.000	cm	Co - Ordinate X :	624765.486092	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2456833.222510	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.665	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.233	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	35.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	17.0	8.15	480	0.480	8.00	30.24	0.270	
2	1.00	28.0	13.43	540	0.540	9.00	29.52	0.455	
3	1.50	39.0	18.70	600	0.600	10.00	28.80	0.649	



Cohesion C_u kg /cm^2 : 0.078 Angle Of Internal Friction ϕ^o : 20.80

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PARESH CONSTRUCTIONS AND FOUNDATIONS PVT. LTD., MUMBAI

ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

TC-9114

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

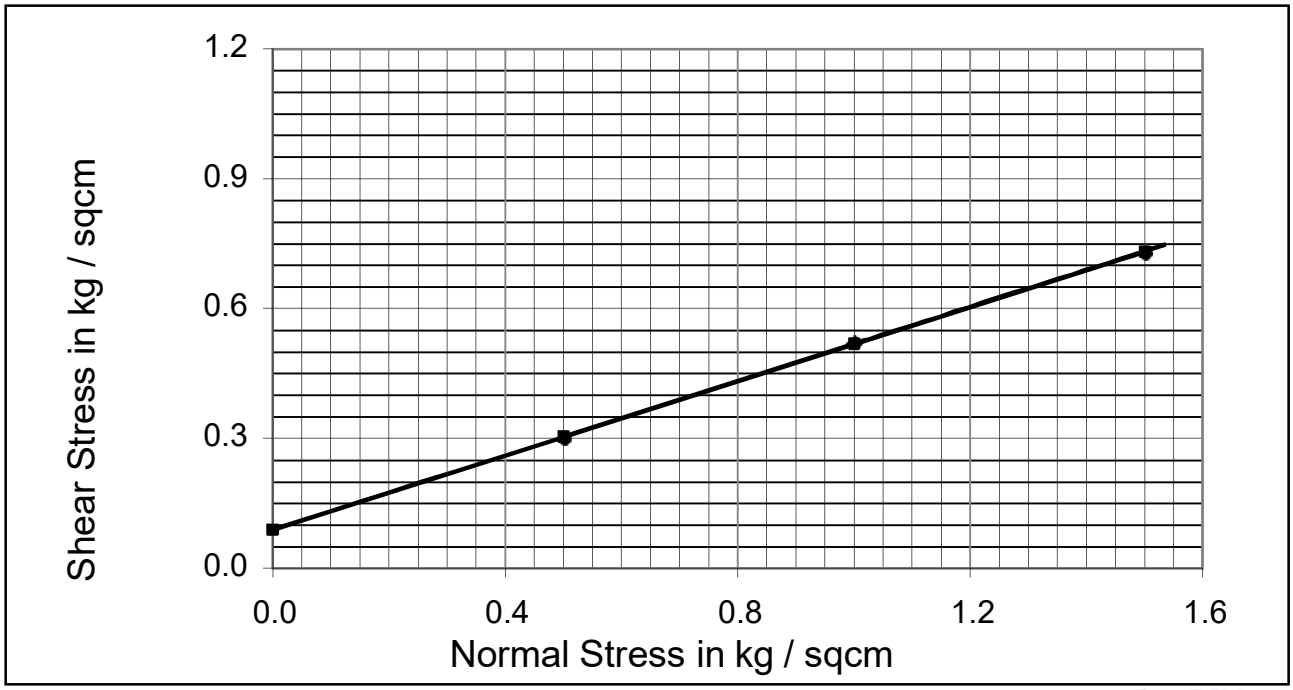
Client Zenith Surveys (I) Pvt. Ltd.

Date : 25.06.2021

Sample ID : SS 39

Width Of Specime	6.000	cm	Co - Ordinate X :	625260.841775	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2457056.798020	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.716	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.281	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	34.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	19.0	9.11	480	0.480	8.00	30.24	0.301	
2	1.00	33.0	15.83	480	0.480	8.00	30.24	0.523	
3	1.50	46.0	22.06	480	0.480	8.00	30.24	0.730	



Cohesion C_u kg /cm^2 : 0.090 Angle Of Internal Friction ϕ^o : 23.18

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

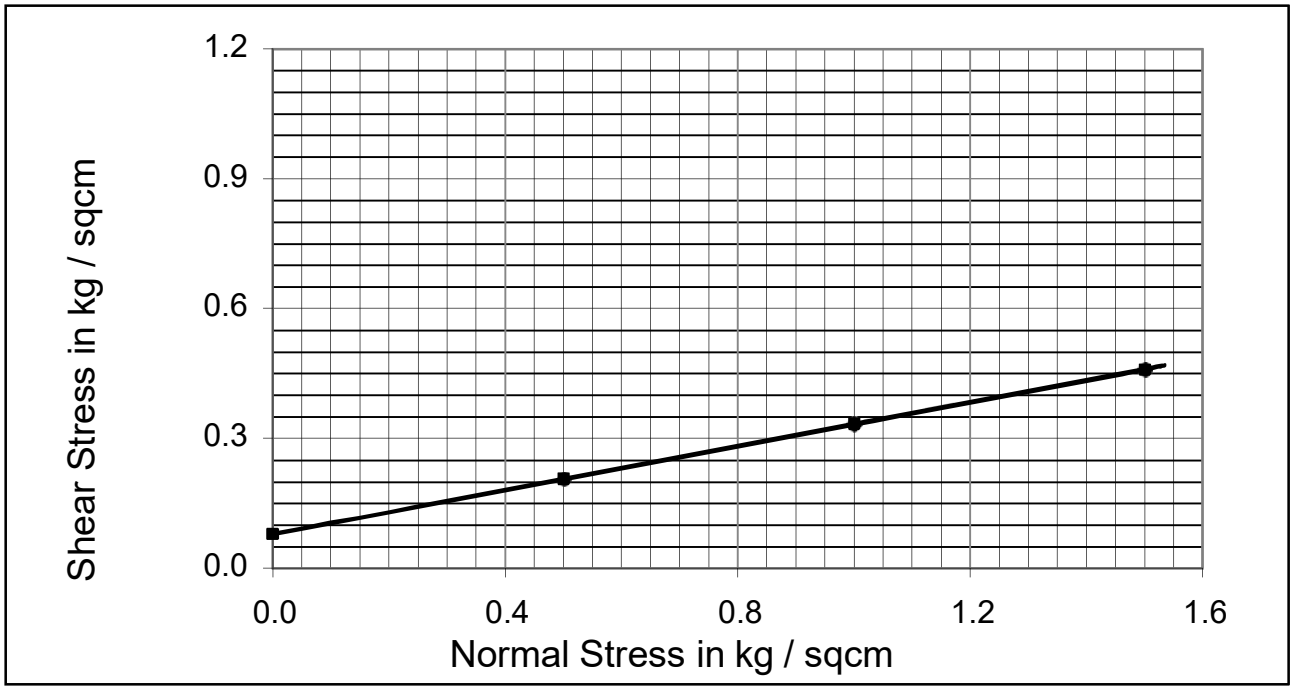
Client Zenith Surveys (I) Pvt. Ltd.

Date : 27.06.2021

Sample ID : SS 41.01

Width Of Specime	6.000	cm	Co - Ordinate X :	624778.966854	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2454844.11817	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.408	gm/cm^3	Proving Ring No. :	138	
Dry Density	0.859	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	64.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	13.0	6.23	480	0.480	8.00	30.24	0.206	
2	1.00	21.0	10.07	480	0.480	8.00	30.24	0.333	
3	1.50	29.0	13.91	480	0.480	8.00	30.24	0.460	



Cohesion C_u kg /cm^2 : 0.079 Angle Of Internal Friction ϕ^o : 14.24

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

Page No. : 40

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

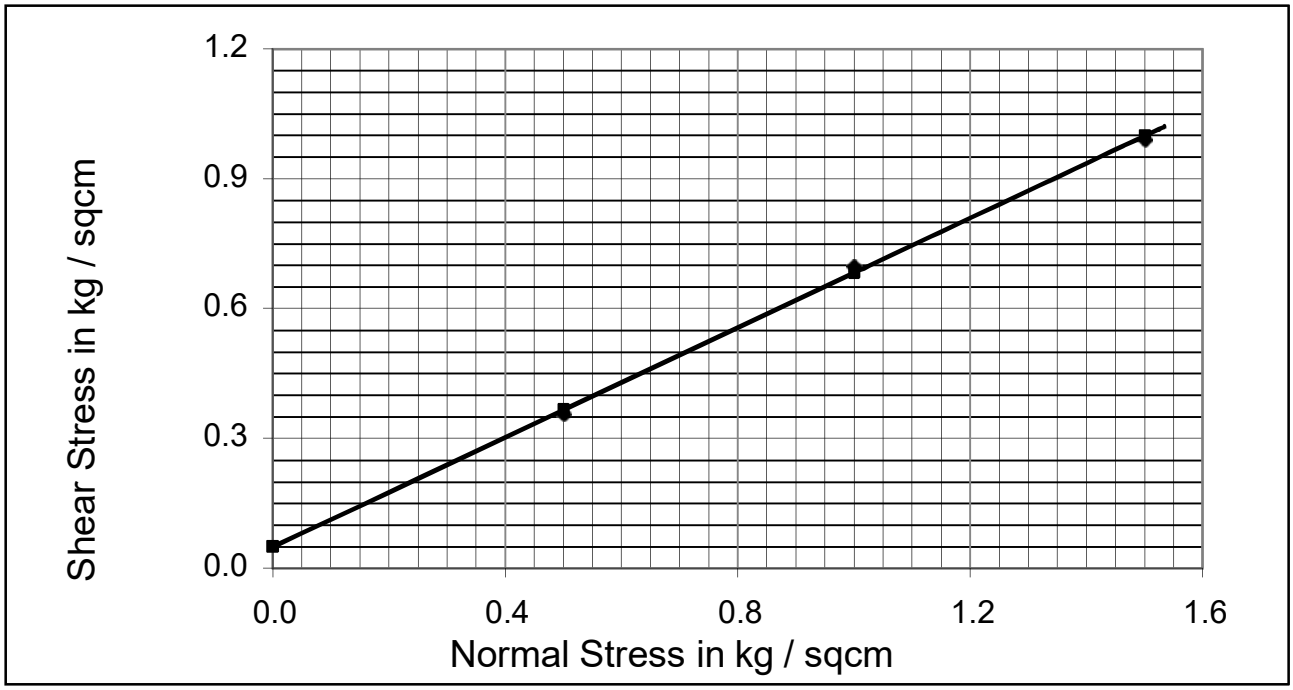
Client Zenith Surveys (I) Pvt. Ltd.

Date : 30.06.2021

Sample ID : SS 46

Width Of Specime	6.000	cm	Co - Ordinate X :	622851.186168	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2455010.492260	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.642	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.109	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	48.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg/cm^2	Division	kg.	Division	cm	%	cm^2	kg/cm^2	
1	0.50	22.0	10.55	540	0.540	9.00	29.52	0.357	
2	1.00	43.0	20.62	540	0.540	9.00	29.52	0.699	
3	1.50	61.0	29.25	540	0.540	9.00	29.52	0.991	



Cohesion C_u kg/cm^2 : 0.049 Angle Of Internal Friction ϕ^o : 32.36

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ULR No. : TC911421000000091F

Report No. : PCFPL / L 0247 / 0113

Lab. Reference No. : 2021 / June / 0162

TC-9114

DIRECT SHEAR TEST (IS : 2720 PART 13)

Project Pre - Feasibility Assessment For Floating Solar Project at Omkareshwar Dam, Madhya Pradesh

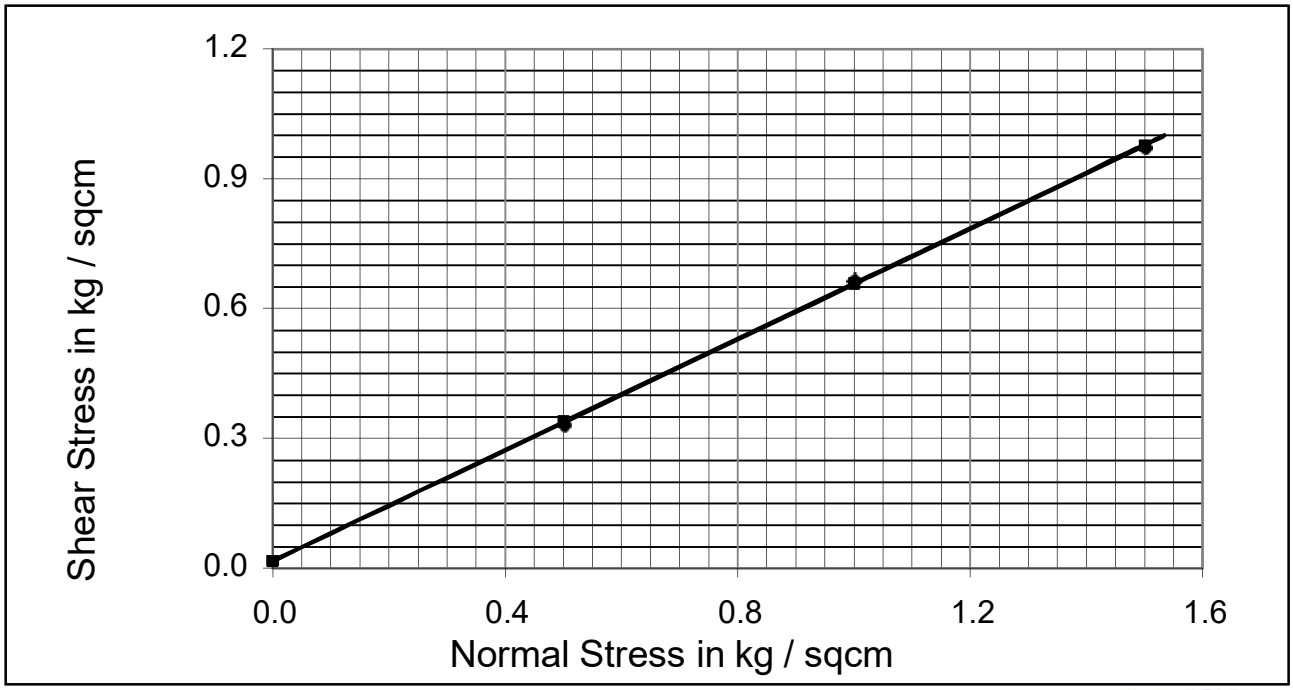
Client Zenith Surveys (I) Pvt. Ltd.

Date : 25.06.2021

Sample ID : SS 47

Width Of Specime	6.000	cm	Co - Ordinate X :	622542.423710	
Length Of Specim	6.000	cm	Co - Ordinate Y :	2454590.785810	
Height Of Specime	2.540	cm	Type Of Sample :	SS	
Area Of Specimen	36.00	cm^2	Condition Of Test :	UU	
Volume Of Specim	91.44	cm^3	Rate of Strain :	1.250	mm/min
Saturated Density	---	gm/cm^3	Least Count Of Strain Dial Gauge :	0.010	mm
Wet Density	1.637	gm/cm^3	Proving Ring No. :	138	
Dry Density	1.213	gm/cm^3	Capacity Of Proving Ring :	2.50	kN
Moisture Content	35.00	%	Least Count Of Proving Ring :	0.4796	kg/div.

Serial	Normal Stress σ_3	Force at Failure Load	Shear Stress at Failure Load	Strain Dial Gauge Reading at Failure	Change in Length at Failure ΔL	Shear Displacement at Failure ε	Correct Area at Failure	Shear Stress at Failure δ_d	Remarks
No.	kg /cm^2	Division	kg.	Division	cm	%	cm^2	kg /cm^2	
1	0.50	21.0	10.07	480	0.480	8.00	30.24	0.333	
2	1.00	41.0	19.66	540	0.540	9.00	29.52	0.666	
3	1.50	57.0	27.34	660	0.660	11.00	28.08	0.973	



Cohesion C_u kg /cm^2 : 0.017 Angle Of Internal Friction ϕ^o : 32.64

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Beneath The Surface
AN ISO 9001-2015 CERTIFIED COMPANY
NABL CERTIFIED LABORATORY
S & R Geotechniques Pvt. Ltd.
Admin Off.: Shop No.1 & 2, Aniruddha Heights, Plot No. 168, Sector - 34, Kamothe, Navi Mumbai - 410 209
Laboratory : Shop No. 7, 8 & 9, Bhakti Ornate, Plot No. 71, Sector-35, Kamothe, Navi Mumbai - 410 209.
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Web : www.srgeotech.com CIN-U45200MH2013PTC304146 GSTIN : 27AASCS9538C1ZT
ilac-MRA
CERTIFICATE No. TC-8156

TEST REPORT

ULR No.: TC815621000000764F **Date: 17.07.2021**

Report No: SRGeo/Lab/PCF8406/Rep.-1/R0

Customer Name: M/s. Zenith Surveys Pvt.Ltd.
Address: 12, Krishna Changa Naik Marg, Sector-48,
Seawoods, Navi Mumbai, Maharashtra 400706

Discipline	: Mechanical & Chemical Testing (At Permanent Laboratory)
Group	: Soil ,Rock Water & Soil.
Source of Sample	: Sample supplied by customer.
Customer Reference	: Test Request Form Dated: 03/07/2021.
No. & type of Material Tested *	: 46 Soil Samples.
Condition of Sample	: Satisfactory & of required minimum quantity.
Project Name	: Laboratory testing on soil samples for proposed project of Pre - Feasibility Assessment for Floating Solar Poject at Omkareshwar Dam, Madhya Pradesh.
Date of Sample Receipt	: 03/07/2021.
Period of Test	: 04/07/2021 to 15/07/2021.

Lab Test Results:

Note: 1. The field records and results reported here are relevant for the test locations, item tested and time at which the tests have been conducted.
2. Any correction invalidates the report.
3. Any test report shall not be reproduced except in full without permission from S & R Geotechniques Pvt. Ltd
4. * As furnished by the customer.

For, **M/s S & R Geotechniques Pvt. Ltd.**

J. S. Salunkhe, M. Tech. (Geotech. iiTR)
Technical Manager
Authorized Signatory

Beneath The Surface

S & R Geotechniques Pvt. Ltd.

Report No: SRGeo/Lab/PCF8406/Rep.-1/R0

ULR No.: TC815621000000764F

Date:17.07.2021

Project: Laboratory testing on soil samples for proposed project of Pre - Feasibility Assessment for Floating Solar Poject at Omkareshwar Dam, Madhya Pradesh.

Client : M/s. Zenith Surveys Pvt.Ltd.

Annexure - 1 Summary of Laboratory Test Results of Soil Chemical

Sr.No.	Sample ID	X	Y	Type of Sample	Depth	Organic Matter Content (BS 1377: Part-3: 1990)	Remarks
						%	
1	SS01	619729.701716	2458211.189790	Soil-1	0.00-0.01	12.40	
2	SS02	620208.269120	2458430.264740	Soil-2	0.00-0.01	19.10	
3	SS03	620877.797093	2458182.193090	Soil-3	0.00-0.01	11.20	
4	SS04	621250.513475	2458299.232280	Soil-4	0.00-0.01	12.40	
5	SS05	620757.125575	2457801.371560	Soil-5	0.00-0.01	16.20	
6	SS06	621234.605031	2457716.601500	Soil-6	0.00-0.01	19.89	
7	SS07	621740.143680	2457809.095340	Soil-7	0.00-0.01	13.45	
8	SS08	622246.368259	2457813.096990	Soil-8	0.00-0.01	14.22	
9	SS09	621758.745542	2457297.919480	Soil-9	0.00-0.01	12.90	
10	SS10	622258.568350	2457321.580990	Soil-10	0.00-0.01	19.60	
11	SS11	622259.838657	2456813.172950	Soil-11	0.00-0.01	11.70	
12	SS12	622774.926329	2456817.261730	Soil-12	0.00-0.01	12.90	
13	SS13	622316.056316	2456373.287090	Soil-13	0.00-0.01	16.70	
14	SS14	622766.708906	2456331.089830	Soil-14	0.00-0.01	18.39	
15	SS15	623262.075478	2456321.128740	Soil-15	0.00-0.01	13.95	
16	SS16	622765.087282	2455880.718030	Soil-16	0.00-0.01	14.72	
17	SS17	623284.417122	2455821.291550	Soil-17	0.00-0.01	12.70	
18	SS19	624270.993105	2455814.789900	Soil-19	0.00-0.01	17.70	
19	SS20	623777.743772	2455325.223620	Soil-22	0.00-0.01	14.95	
20	SS21-1	624274.880197	2455340.635820	Soil-21	0.00-0.01	11.47	
21	SS23	624778.966854	2454844.118170	Soil-23	0.00-0.01	12.63	
22	SS24	625279.274900	2454808.601360	Soil-24	0.00-0.01	12.10	
23	SS25	624783.230334	2454323.859890	Soil-25	0.00-0.01	13.55	

S & R Geotechniques Pvt. Ltd. NAVI MUMBAI

(Pooja Sathe-SE)
Prepared By

(J.S.Salunkhe-TM/MD)
Approved By

Beneath The Surface

S & R Geotechniques Pvt. Ltd.

Report No: SRGeo/Lab/PCF8406/Rep.-1/R0

ULR No.: TC815621000000764F **Date:17.07.2021**

Project: Laboratory testing on soil samples for proposed project of Pre - Feasibility Assessment for Floating Solar Poject at Omkareshwar Dam, Madhya Pradesh.

Client : M/s. Zenith Surveys Pvt.Ltd.

Annexure - 1 Summary of Laboratory Test Results of Soil Chemical

Sr.No.	Sample ID	X	Y	Type of Sample	Depth	Organic Matter Content (BS 1377: Part-3: 1990) %	Remarks
24	SS26	624283.299957	2454313.293170	Soil-26	0.00-0.01	15.20	
25	SS27	625283.160566	2454334.444130	Soil-27	0.00-0.01	11.79	
26	SS28	625783.198604	2454331.871990	Soil-28	0.00-0.01	12.30	
27	SS29	626289.163671	2454345.529030	Soil-29	0.00-0.01	14.25	
28	SS30	624787.287950	2453828.628680	Soil-30	0.00-0.01	15.21	
29	SS31-1	625293.483576	2453837.401840	Soil-31	0.00-0.01	12.63	
30	SS32-1	625787.148329	2453849.810320	Soil-32	0.00-0.01	12.75	
31	SS33	626293.201783	2453845.545630	Soil-33	0.00-0.01	19.45	
32	SS34	624791.226127	2453347.887380	Soil-34	0.00-0.01	11.55	
33	SS35	626888.982295	2453341.627890	Soil-35	0.00-0.01	12.75	
34	SS36	626694.036401	2453723.302880	Soil-36	0.00-0.01	16.55	
35	SS37	625791.302311	2453342.724490	Soil-37	0.00-0.01	18.24	
36	SS38	624765.486092	2456833.222510	Soil-38	0.00-0.01	13.80	
37	SS39	625260.841775	2457056.798020	Soil-39	0.00-0.01	14.57	
38	SS40	625748.719543	2457341.216200	Soil-40	0.00-0.01	15.10	
39	SS41-1	626269.929311	2457345.470270	Soil-41	0.00-0.01	13.71	
40	SS41-3	---	---	Soil-41	0.00-0.01	15.39	
41	SS42	626399.557612	2457846.547450	Soil-42	0.00-0.01	15.22	
42	SS43	625767.993311	2457841.389480	Soil-43	0.00-0.01	11.82	
43	SS44	622494.163920	2455599.236760	Soil-44	0.00-0.01	14.17	
44	SS45	623111.828476	2455432.856340	Soil-45	0.00-0.01	13.10	
45	SS46	622851.186168	2455010.492260	Soil-46	0.00-0.01	15.62	
46	SS47	622542.423710	2454590.785810	Soil-47	0.00-0.01	13.90	

S & R Geotechniques Pvt. Ltd. NAVI MUMBAI

(Pooja Sathe-SE)
Prepared By

(J.S.Salunkhe-TM/MD)
Approved By

ANNEXURE-III

Ref.
Date:

SITE INSPECTION CERTIFICATE

This is to Certify that, I / We…….

……. had inspected the proposed

construction site thoroughly and understood the scope of works to be carried out in

line with construction drawings/designs/data/Bill of quantities/schedule of items /

specifications as brought out in the Tender as desired by BHEL and as will be required during site execution.

Agreeable to all Terms & Conditions of Contract and assure to complete the work

within the stipulation time frame. BHEL shall not be responsible be any difficulties arising during site execution.

Signature of the contractor

Name:
Seal

GEOTECHNICAL INVESTIGATION REPORT FOR PREPARATION OF DPR FOR IDENTIFIED SOLAR PARKS IN MADHYA PRADESH AT OMKARESHWAR

1.0 INTRODUCTION

M/s Deloitte Touche Tohmatsu India (DTTILLP) has entered into a contract with Rewa Ultra Mega Solar Limited (RUMSL) and has agreed to perform "Preparation of DPR of 600 MW Omkareshwar floating Solar Park" plans construction of a Mooring Facility in Omkareshwar. The work of geotechnical investigation for the same was awarded to Shree Samarth Geotechnic. The field work and laboratory testing work for the geotechnical investigation was completed by Shree Samarth Geotechnic in June 2021. This report presents results of the geotechnical investigation, along with engineering recommendations.

2.0 SCOPE OF WORK

The scope of work completed at this site included:

a) Completing Twelve Boreholes (BH-1 to BH-12) upto the depth of 5 mtr below reservoir bottom.

b) Conducting laboratory tests on disturbed (SPT) soil samples and UDS Samples.

c) Preparing and submitting a geotechnical investigation report. (Borehole number and coordinates are given table A below);

TABLE A
BOREHOLE NUMBER AND COORDINATES

BOREHOLE NUMBER	CO-ORDINATE		BOREHOLE TERMINATION DEPTH
	EASTING	NORTHING	
BH-1	619575.58	2458394.12	5.00m
BH-2	620561.22	2458225.26	5.45m
BH-3	621482.30	2457835.90	5.45m
BH-4	622232.53	2457174.25	5.45m
BH-5	622887.45	2456419.02	5.25m
BH-6	623599.30	2455716.69	5.26m
BH-7	624402.30	2455120.72	5.12m
BH-8	625009.79	2454326.39	5.00m
BH-9	625664.29	2453678.50	5.45m
BH-10	624293.69	2456488.23	5.25m
BH-11	625143.84	2457014.77	5.25m
BH-12	626063.45	2457407.59	5.00m

3.0 SUBSURFACE CONDITIONS

Subsurface profile generally consists of residual soil (clay and silty sand) overlying completely weathered rock. The soil/rock layers encountered during drilling are described in detail below:

LAYER I: RESIDUAL SOIL

Layer I consists of the residual soil containing mostly brown clay or silty sand at existing ground surface in the drilled boreholes. Based on Standard Penetration Tests (SPT) conducted in the field, relative densities of the granular soils (silty sand) ranged between dense to very dense. Consistencies of the cohesive soils (clayey silt or sandy clay) ranged between medium stiff to stiff.

LAYER II: COMPLETELY WEATHERED ROCK

Layer II encountered with completely weathered bedrock below residual soil layer in drilled boreholes. This layer is formed by the complete in-place disintegration of parent bedrock material, but still partially retains the original rock mass structure, and is also locally referred to as hard murrum. SPT tests conducted in this layer encountered refusals. Core recoveries were typically less than 30%. The boreholes were terminated in this layer at depths between 5.0m and 5.45m below reservoir bottom surface.

4.0 SOIL PARAMETERS

Soil engineering parameters for design are given in Table C below.

TABLE C
SOIL PARAMETERS

BH No	Depth (m)	Soil Type IS 1498	SPT N Value	Organic Matter (%)	Soil Friction Angle 'Ø'	Soil Cohesion 'c' (t/m^2)
BH-1	0.00-0.10	GM	>50	0.158	-	-
BH-2	1.50-1.95	CH	5	0.757	6.62	1.2
	3.00-3.45	CH	25	0.523	-	-
BH-3	1.50-1.95	CH	8	0.837	7.52	1
	3.00-3.45	CH	11	-	-	-
	5.00-5.45	CH	32	0.980	-	-
BH-4	1.50-1.95	CH	11	1.212	9.09	0.9
	3.00-3.45	SM	38	1.207	-	-
	5.00-5.45	SM	28	0.170	-	-
BH-5	5.00-5.25	SM	>50	1.21	5.03	1.9
BH-6	1.50-1.62	SM	>50	0.664	3.43	1.8
	5.00-5.26	SM	>50	1.182	-	-
BH-7	1.50-1.95	SM	26	0.687	5.71	1.3
	3.00-3.08	SM	>50	0.812	-	-
	5.00-5.12	SM	>50	0.716	-	-
BH-8	1.50-1.95	SM	43	1.177	6.62	1.8
	3.00-3.13	SM	>50	1.05	-	-
	5.00-5.45	SM	>50	-	-	-
BH-9	5.00-5.45	SM	55	0.941	3.66	1.1
BH-10	1.50-1.95	SM	38	0.834	31.96	0.6
	3.00-3.45	SM	27	1.759	-	-
	5.00-5.27	SM	>50	1.989	-	-
BH-11	2.00-2.45	SM	37	1.509	4.12	2
	3.50-3.90	SP	>50	0.834	-	-
	5.00-5.28	SM	>50	0.194	-	-

BH-12	1.50-1.73	SM	>50	1.157	3.89	1.5
	3.00-3.26	SM	>50	1.109	-	-

Abbreviations:

- CH: fat clay
- CI: lean clay
- GC: clayey gravels, gravel-sand-clay mixtures
- GM: silty gravels, gravel-sand-silt mixtures
- MI: silt
- SM: silty sands, sand-silt mixtures

Adhesion between concrete coated pipe and soil below the top 1.5m zone can be taken as 1.5 t/m^2.

4.1 PILE CAPACITIES

Proposed structures of mooring facility can be supported on pile foundations to resist uplift loads if any. Piles should be socketed 5D in weathered bedrock (Where D is pile diameter) encountered at depths of 1.5m to 5.0m below existing ground surface.

Capacities of representative pile sizes are given in Table D below.

TABLE D
Safe Vertical Downward & Lateral Capacity of Piles

Pile Diameter (mm)	Safe Vertical Downward Capacity (tons)	Safe Lateral Capacity (tons)	Safe Uplift Capacity (tons)
600	140	2.2	35
700	190	2.6	50
800	250	3.0	65
900	315	3.4	85

1000	390	3.8	105

Maximum total settlement of piles installed as described above will be less than 12mm. Depth of fixity for lateral loads will be 12.5D below pile cap.

5.0 FOUNDATION PROTECTION

A Severe Exposure Condition was assigned to this site. Hence, following precautions shall be taken to protect concrete and reinforcement in foundations as per IS456-2000 / CIRIA Sp. Publication no-31 and updated amendments.

TABLE E-1
PRECAUTIONS FOR SUBSURFACE STRUCTURES

Item	Minimum Required For Piles
Type of Cement	OPC or PPC
Minimum Cement Content	400 kg/m^3
Minimum Grade of Concrete	M30
Maximum Water Cement Ratio	0.50
Minimum Cover for Foundations	50mm

TABLE E-2
RESULTS OF CHEMICAL ANALYSIS ON WATER SAMPLE

Parameter	Range	Remarks/Permissible Limits (Limits as per IS 456-2000)
pH	6.8-7.4	> 6 (Moderately Alkaline)
Sulphate SO_3 (mg/l)	20.0-36.2	< 400 mg/l
Chlorides Cl (mg/l)	5.12-8.21	No limit specified in IS 456. However, value ranged between < 2000 mg/l Specified for Class I in CIRIA Sp. Publication No. 31.
Nitrate (mg/l)	0.26-0.52	-
Salinity (ppt)	0.01-0.02	-
Organic Content (mg/l)	29.2-42.9	200 mg/l
Carbonate (mg/l)	<1.0	-

6.0 METHODOLOGY OF INVESTIGATION

The sub-surface investigation was completed generally as per IS: 1892-1979. The field investigation was carried out using rotary rigs (Calyx, 8 HP, Engine). Casing was used to support sides of borehole until sufficiently stiff strata was encountered. Standard Penetration Tests (i.e. SPT) were carried out at every 1.5m vertical interval up to bedrock, in accordance with IS 2131-1981. Using this procedure, a 5 cm outside diameter split-barrel sampler is driven into the soil by 63.5 kg. weight falling through 75 cm height. After an initial set of 15cm, the number of blows required to drive the sampler an additional 30 cm, is known as the “penetration resistance” or “N value”.

After SPT refusal was obtained, NX sized rock coring was done in maximum of 1.5m runs, using diamond bit and double tube core barrel. Percent Rock Core Recovery and percent Rock Quality Designation (%RQD) were determined. % RQD = 100 x Sum of length of rock pieces in cms, each having lengths greater than 10cms/Total length of core run in cms. Boats were utilized to complete SPT test at existing bed level in all locations. The anchors were tied at four corners of the boat so that boat position is maintained even during tidal fluctuations.

Each sample retrieved from SPT spoon was inspected for visual identification of strata as per IS-1498. The samples were preserved in polythene bags, duly numbered and N values mentioned for proper identification.

Undisturbed soil samples were collected by pushing UDS steel tube into natural soil. Once sample enters into steel tube, it is slowly lifted upwards to avoid collapse of inside material. Wax layer is provided on open end of steel tube to avoid loss of moisture from soil. Samples transported to laboratory with utmost care and without disturbance to retain natural soil properties.

Selected soil and water samples were subjected to laboratory testing. Laboratory tests on SPT samples included mechanical analysis, and Atterberg Limits conducted according to

IS2720 relevant parts and laboratory tests on UDS samples includes identifying engineering properties of soil such as cohesion and friction properties along with Natural moisture content.

7.0 CONCLUSIONS FROM THE GEOTECHNICAL STUDY

For the economic evaluation and analysis of an efficient and economical foundation of potential floating solar PV structures, the knowledge of general geological characteristics, subsoil profile, strength characteristics, compressibility and information about ground and water is an essential requirement.

The choice of the adequate anchors for the attachment of the mooring system is dependent on the depths, the bottom substrate and the needed holding capacity, i.e., the soil/rock conditions in the FSPV plant location.

The results of the geotechnical study on the three identified priority areas reveals:

- For the deeper areas, the non-penetrating gravity anchors would likely be the optimal solution.
- For the shallow parts on top of rock, as in the Southwest side borehole 10, 11 & 12 or in the Northwest part of boreholes 7, 8 & 9, the standard solution is to use rock bolts.
- Embedment anchors could be the optimal choice for locations with cohesive sediments which are best suited to, though not too stiff to impede penetration.
- The final decision will be based on the detailed installation planning when the final anchor positions have been determined.

SAMPLE CALCULATION OF ALLOWABLE VERTICAL CAPACITY OF 600mm DIA. PILES SOCKETED 5D IN BEDROCK:

A) SKIN FRICTION CAPACITY IN 5D ROCK SOCKET:

As per Cole and Stroud Method (Reference No. 5) for soft rock, the zero strength bedrock is assumed to be a hard cohesive soil.

Using a minimum SPT N value of 100 in the bedrock.

Allowable Skin End Bearing Capacity = q_{all} = aC / F.S. (Reference No. 5)

Where,
c = cohesion = N/1.5 = 100/1.5 = 66.67 t/m2
a = adhesion factor
F.S. = Factor of Safety
(a/FS) = 0.15
Therefore, Allowable Skin Friction Capacity = 0.15 x 66.67 = 10 t/m2
Allowable End Bearing Capacity of 600mm dia piles = πDL (15) = 3.142 x 0.6 x 3.0m x 10 t/m2 = 56 tons

B) END BEARING CAPACITY IN LOW STRENGTH COMPLETELY WEATHERED BEDROCK:

Using a minimum SPT N value of 150 at pile tip in the bedrock.
As per Cole and Stroud Method (Reference No. 5).

Allowable End Bearing Capacity = q_{all} = cNc / F.S. (Reference No. 5)

Where,
c = cohesion = N/1.5 = 150/1.5 = 100 t/m2
Nc = Bearing Capacity Factor = 9 for deep foundations
F.S. = Factor of Safety = 3

Therefore, Allowable End Bearing capacity = 100 x 9 / 3 = 300 t/m2
Allowable End Bearing Capacity of 600mm dia piles = $(300)\pi D^2/4$ = 84 tons

THEREFORE, TOTAL PILE CAPACITY = 56 + 84 TONS = 140 tons

CALCULATION OF LATERAL CAPACITY OF PILE

Reference: Appendix-B (Revised) of IS 2911 (Part 1/Sec. 2) - 1979.

Strata near top of pile consists mostly of clay with minimum N = 5

Corresponding average C_u = N/1.5 = 5/15 = 0.33 kg/cm^2.
Unconfined compressive strength, q_u = 2 C_u = 0.66 kg/cm^2
As per Table 2 of Reference mentioned above,
Constant K_2 = 7.79 kg/cm^2 for q_u = 0.26 kg/cm^2

For long and flexible pile, depth of fixity,

$$R = \sqrt[4]{\frac{EI}{K_2}}$$

Where,
E = Modulus of Elasticity of pile material = 2.7 x 10^5 kg/cm^2 for concrete
I = Moment of Inertia = π D^4/64 cm^2 (D is pile diameter in cm)

Therefore,

$$R = \sqrt[4]{\frac{2.70x10^5\, x\Pi D^4}{64x7.79}}$$

R = 6.4 D (D is pile diameter in cm)

Unsupported length of pile, L_1 = 0.0cm
Therefore, L_1/R = 0.0
For fixed head pile and L_1/R = 0.0, L_f/R = 2.0
Therefore, length of fixity,
L_f = 2.0 x R = 12.8D (where D is pile diameter in cms)
For a lateral deflection of 0.5cm at the top of the pile,
For fixed head pile, allowable lateral load, Q_a corresponding to a deflection Y = 0.5 cm,
Q_a = 12 EIY/(L_1 + L_f)^3 = (12 x 2.7 x 10^5 x π D^4 x 0.5)/[64x(12.8D)^3]
Q_a = 38 (D) kgs = 0.038 D tons (where D is pile diameter in cms)

ANNEXURE

BORE LOG

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH-01
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-619575.5809, N-2458394.121	Depth of Casing : 00.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 16/05/2021
Depth of GWT : 5.50mtr	Date of Completion : 18/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 10	--	--	--	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00	100 mm Ø														
	0.10			Brownish grey fractured Rock		SPT1	0.00	0.10	52	--	--	--	R			
1.00	1.50			Completely weathered greyish fractured jointed rock		CORE	0.10	1.50						10	NIL	
2.00		NX		Highly weathered greyish fractured BASALT		CORE	1.50	3.00						22	NIL	
3.00	3.00															
4.00	4.00					CORE	3.00	4.00						30	NIL	
5.00	5.00					CORE	4.00	5.00						34	NIL	
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

DS : Disturbed Sample
UDS : Undisturbed Sample
SPT : Standard Penetration Test
WS : Wash Sample

CR : Core Recovery
RQD : Rock Quality Designation
PR : Rate of Penetration
VST : Vane Shear Test

K : Permeability Test
PT : Packer Permeability Test
BP : Broken Pieces

REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 02
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-620561.221, N-2458225.263	Depth of Casing : 01.00 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 18/05/2021
Depth of GWT : 5.20mtr	Date of Completion : 20/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00	100 mm Ø														
	0.10			Soft greyish CLAY		UDS1	0.00	0.10								
1.00																
	1.50					SPT1	1.50	1.95	01	01	04	--	05			
2.00																
3.00	3.00			Yellowish brown silty CLAY												
						SPT2	3.00	3.45	05	12	13	--	25			
4.00	4.00															
5.00	5.00															
						SPT3	5.00	5.45	05	06	10	--	16			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH-03
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-621482.308, N-2457835.905	Depth of Casing : 03.00 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 20/05/2021
Depth of GWT : 8.50mtr	Date of Completion : 20/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.50	100 mm Ø		Soft greyish CLAY		UDS1	0.00	0.50								
1.00	1.50			Soft brownish CLAY with gravel												
2.00						SPT1	1.50	1.95	02	04	04	--	08			
3.00	3.00			Yellowish brown silty CLAY												
						SPT2	3.00	3.45	03	04	07	--	11			
4.00		NX		Completely weathered reddish brown rock												
5.00	5.00															
						SPT3	5.00	5.45	08	14	18	--	32			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 04
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-622232.535, N-2457174.725	Depth of Casing : 05.00 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 21/05/2021
Depth of GWT : 11.60mtr	Date of Completion : 21/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.50			Soft greyish CLAY		UDS1	0.00	0.50								
1.00																
	1.50															
2.00		100 mm Ø		Brownish silty CLAY		SPT1	1.50	1.95	02	04	07	--	11			
3.00	3.00															
						SPT2	3.00	3.45	13	15	23	--	38			
4.00				Brownish CLAY with gravel												
5.00	5.00															
						SPT3	5.00	5.45	06	10	18	--	28			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH-05
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-622887.456, N-2456419.028	Depth of Casing : 01.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 22/05/2021
Depth of GWT : 6.30mtr	Date of Completion : 22/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.40	100 mm Ø		Soft greyish CLAY		UDS1	0.00	0.40								
1.00				Reddish SAND with weathered Rock with BOULDER					15	10	--	--	N			
	1.50					SPT1	1.50	1.75	23	52	--	--	R			
2.00																
3.00	3.00								11	--	--	--	N			
		NX		Brownish Soil with Completely weathered Rock		SPT2	3.00	3.11	52	--	--	--	R	10	NIL	
4.00	4.00					CORE	3.00	4.00								
5.00	5.00								15	10	--	--	N			
						SPT3	5.00	5.25	12	52	--	--	R			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 06
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-623599.302, N-2455716.692	Depth of Casing : 01.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 23/05/2021
Depth of GWT : 8.90mtr	Date of Completion : 23/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.30	100 mm Ø		Soft greyish CLAY		UDS1	0.00	0.30								
1.00				Reddish silty SAND with Completely weathered Rock												
	1.50								12	--	--	--	N			
2.00						SPT1	1.50	1.62	52	--	--	--	R			
3.00	3.00	NX														
						SPT2	3.00	3.45	14	17	22	--	39			
4.00																
5.00	5.00								15	11	--	--	N			
						SPT3	5.00	5.26	19	52	--	--	R			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH-07
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-624402.309, N-2455120.723	Depth of Casing : 01.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 28/05/2021
Depth of GWT : 3.50mtr	Date of Completion : 28/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.50	100 mm Ø		Soft greyish silty CLAY		UDS1	0.00	0.50								
1.00				Greyish brown silty SAND wth gravel												
	1.50															
2.00	2.00					SPT1	1.50	1.95	03	06	20	--	26			
3.00	3.00								08	--	--	--	N			
		NX		Completely weathered dark brown fractured Rock		SPT2	3.00	3.08	52	--	--	--	R	05	NIL	
4.00	4.00					CORE	3.00	4.00	52	--	--	--	N			
						SPT3 CORE	4.00 4.00	4.05 5.00	52 12	-- --	-- --	-- --	R N	NIL	NIL	
5.00	5.00					SPT3	5.00	5.12	52	--	--	--	R			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH-08
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-625009.799, N-2454326.395	Depth of Casing : 01.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 29/05/2021
Depth of GWT : 6.00mtr	Date of Completion : 29/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.80	100 mm Ø		Soft greyish CLAY		UDS1	0.00	0.80								
1.00	1.50			White brown silty SAND												
2.00						SPT1	1.50	1.95	19	19	24	--	43			
3.00	3.00								13	--	--	--	N			
		NX				SPT2	3.00	3.13	52	--	--	--	R	NIL	NIL	
4.00	4.00					CORE	3.00	4.00	52	--	--	--	N			
5.00	5.00			Completely weathered reddish grey brown fractured Rock		SPT3	4.00	4.05	52	--	--	--	R	25	NIL	
						CORE	4.00	5.00								
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

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REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 09
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-625664.296, N-2453678.504	Depth of Casing : 05.00 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 30/05/2021
Depth of GWT : 5.00mtr	Date of Completion : 30/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00	100 mm Ø														
	0.50			Soft greyish CLAY		UDS1	0.00	0.50								
1.00				Brownish silty SAND with gravel												
	1.50					SPT1	1.50	1.95	08	11	15	--	26			
2.00																
3.00	3.00					SPT2	3.00	3.45	17	17	20	--	37			
4.00	4.00															
5.00	5.00			Brownish CLAY with gravel		SPT3	5.00	5.45	17	26	29	--	55			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

DS : Disturbed Sample
UDS : Undisturbed Sample
SPT : Standard Penetration Test
WS : Wash Sample

CR : Core Recovery
RQD : Rock Quality Designation
PR : Rate of Penetration
VST : Vane Shear Test

K : Permeability Test
PT : Packer Permeability Test
BP : Broken Pieces

REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 10
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-624293.690, N-2456488.234	Depth of Casing : 01.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 24/05/2021
Depth of GWT : 9.00mtr	Date of Completion : 24/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.50	100 mm Ø		Stiff brownish CLAY with gravel		UDS1	0.00	0.50								
1.00				WASH SAMPLE												
	1.50					SPT1	1.50	1.95	27	25	13	--	38			
2.00				White brown clayey silty SAND with gravel												
3.00	3.00															
		NX				SPT2	3.00	3.45	06	14	13	--	27			
4.00				Completely weathered brown Rock												
5.00	5.00								15	10	--	--	N			
						SPT3	5.00	5.25	28	52	--	--	R			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

DS : Disturbed Sample
UDS : Undisturbed Sample
SPT : Standard Penetration Test
WS : Wash Sample

CR : Core Recovery
RQD : Rock Quality Designation
PR : Rate of Penetration
VST : Vane Shear Test

K : Permeability Test
PT : Packer Permeability Test
BP : Broken Pieces

REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 11
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-625143.841, N-2457014.773	Depth of Casing : 04.00 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 25/05/2021
Depth of GWT : 6.80mtr	Date of Completion : 25/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.50	100 mm Ø		Soft greyish CLAY		UDS1	0.00	0.50								
1.00				Yellowish brown silty SAND with gravel		DS1										
2.00	2.00					SPT1	2.00	2.45	05	14	23	--	37			
3.00	3.00								15	15	10	--	N			
	3.50			Yellowish brown silty SAND with gravel & BOULDER												
4.00	4.00					SPT2	3.50	3.90	15	29	52	--	R			
5.00	5.00	NX		Completely weathered brown Rock with silty SAND					15	11	--	--	N			
						SPT3	5.00	5.25	23	52	--	--	R			
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

DS : Disturbed Sample
UDS : Undisturbed Sample
SPT : Standard Penetration Test
WS : Wash Sample

CR : Core Recovery
RQD : Rock Quality Designation
PR : Rate of Penetration
VST : Vane Shear Test

K : Permeability Test
PT : Packer Permeability Test
BP : Broken Pieces

REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

M/S. SHREE SAMARTH GEOTECHNIC KALYAN

Client :- **DELOITTE TOUCHE TOHMATSU INDIA**	Boring No. : BH- 12
Project :- Geotechnical Investigation Work for Moorings analysis work at Omkareshwar Projects	Sheet : 1 of 1
	Depth of Bore Hole : 05.00 m BGL
CO ORDINATE :- E-626063.453, N-2457407.599	Depth of Casing : 01.50 m BGL
CHAINAGE :-- -- **R. L. : ---**	Date of Commencement : 26/05/2021
Depth of GWT : 4.60mtr	Date of Completion : 26/05/2021

Scale	Depth m	DIA. OF BORE HOLE	Log	Description	Sample No.	Type	Depth m From	Depth m To	SPT 'N' Value 15	30	45	60	N	CR %	RQD %	Remarks / Other Tests
0.00	0.00															
	0.40	100 mm Ø		Soft greyish CLAY		UDS1	0.00	0.40								
1.00				Greyish brown clayey silty SAND wth gravel					15	08	--	--	N			
	1.50					SPT1	1.50	1.73	27	52	--	--	R			
2.00																
3.00	3.00								15	11	--	--	N			
		NX		Highly weathered gryish brown fractured BASALT		SPT2	3.00	3.26	16	52	--	--	R	12	NIL	
4.00	4.00					CORE	3.00	4.00	07	--	--	--	N			
						SPT3	4.00	4.07	52	--	--	--	R	28	NIL	
5.00	5.00					CORE	4.00	5.00								
6.00																
7.00																
8.00																
9.00																
10.00																
11.00																
12.00																
13.00																
14.00																
15.00																

DS : Disturbed Sample
UDS : Undisturbed Sample
SPT : Standard Penetration Test
WS : Wash Sample

CR : Core Recovery
RQD : Rock Quality Designation
PR : Rate of Penetration
VST : Vane Shear Test

K : Permeability Test
PT : Packer Permeability Test
BP : Broken Pieces

REMARKS : BORE HOLE IS TERMINATED AT DEPTH 05.00m. BELOW G. L	Site - Incharge PITAMBAR	Drawn By SANJAY VARADKAR	JOB NO 418

LABORTORY TEST RESULTS

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-01	0.00	0.10	SPT	----	----	38	GM	51	33	16		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test

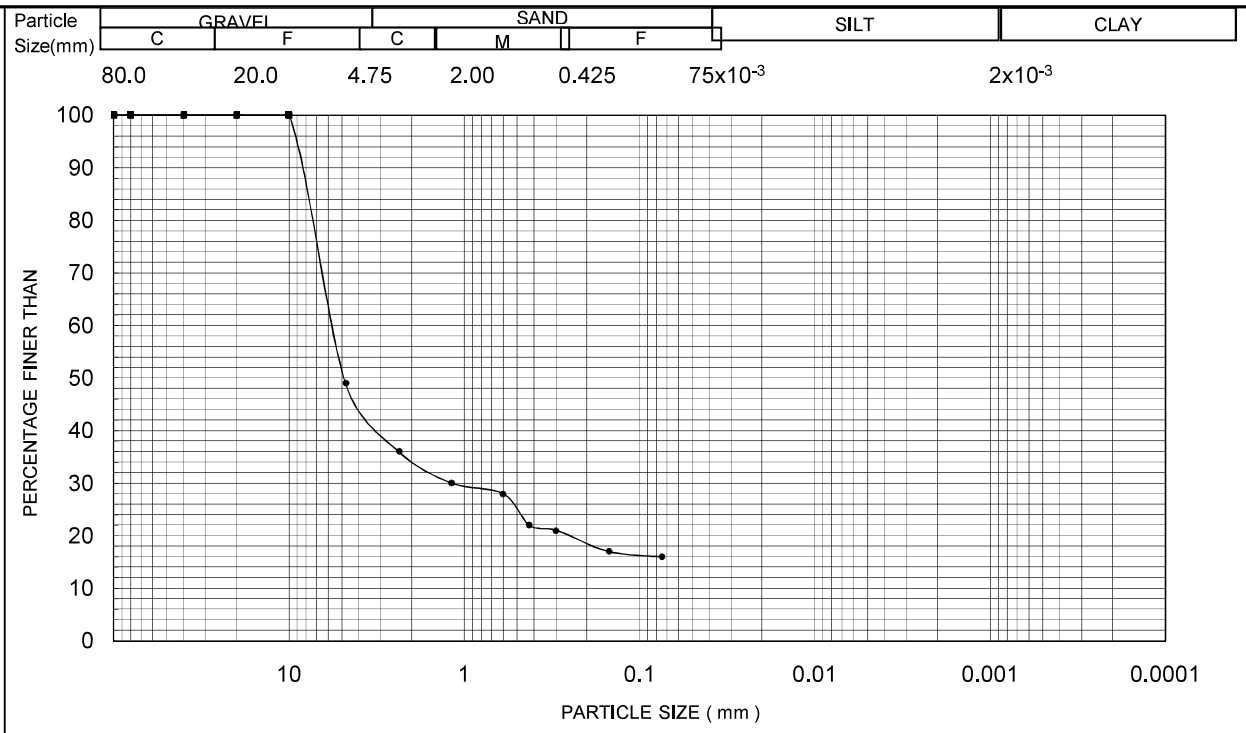
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●—●	BH-01	0.00	0.10	GM	51	33	16		---	---	---	---	---	NP	NP	NP	SPT
■—■																	
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SHREE SAMARTH GEOTECHNIC

Job No. L-429

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-02	----	----	SPT	1.56	1.13	38	CH	10	38	52		53	23	30	----	----	----	----	----	----	
BH-02	----	----	SPT	1.56	1.13	38	CH	1	9	90		61	26	35	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

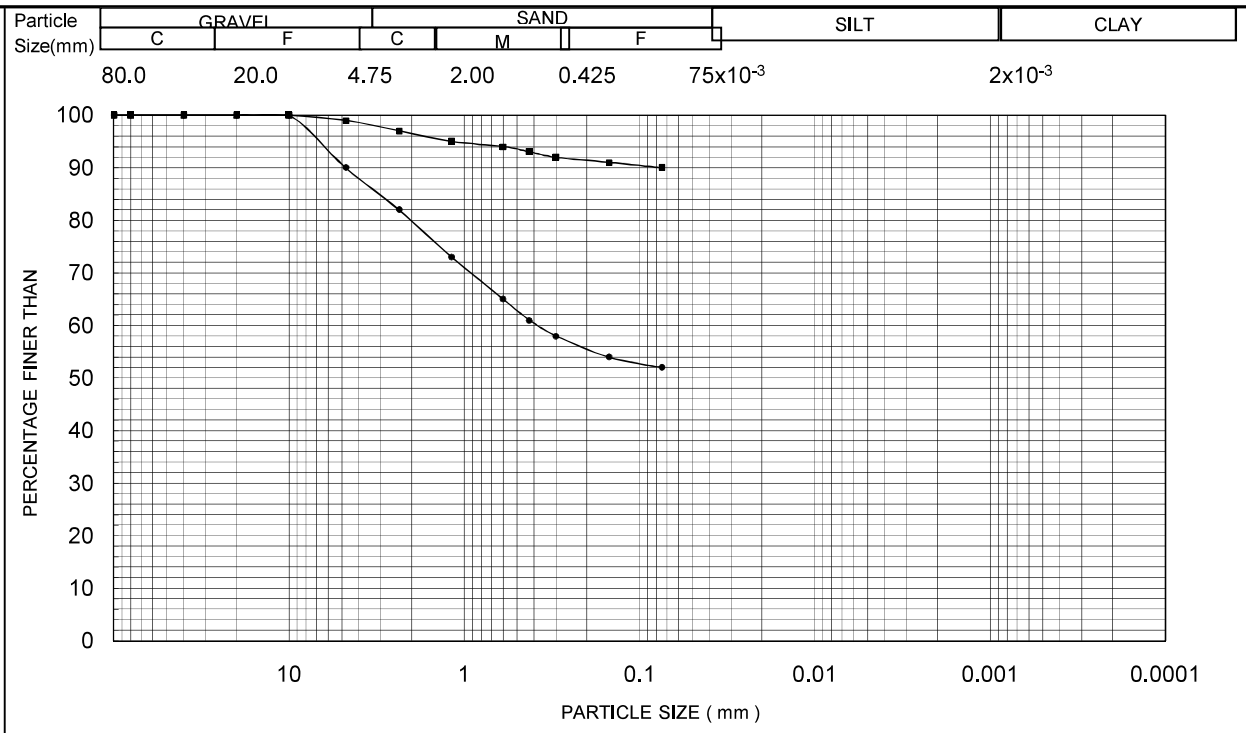
SHREE SAMARTH GEOTECHNIC Job No. L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH-02	1.50	1.95	CH	10	38	52		---	---	---	---	---	53	23	30	SPT
—■—■	BH-02	3.00	3.45	CH	1	9	90		---	---	---	---	---	61	26	35	SPT
—▲—▲																	
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Job No. L-429

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-3	1.50	1.95	SPT	----	----	38	CH	3	8	89		58	23	35	----	----	----	----	----	----	
BH-3	3.00	3.45	SPT	----	----	38	CH	5	25	70		56	24	32	----	----	----	----	----	----	
BH-3	5.00	5.45	SPT	----	----	38	CH	2	22	76		57	23	34	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained *Cu* : Undrained Cohesion CHEM Chemical Analysis

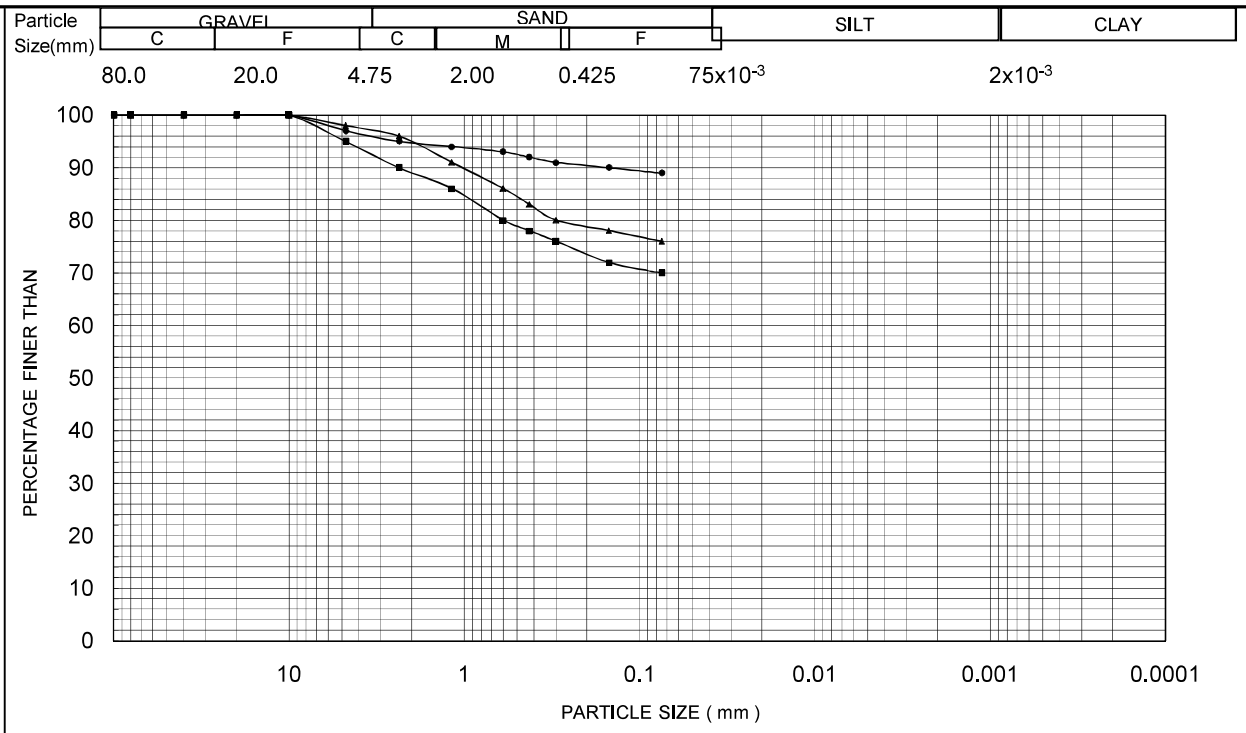
SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Job No.	Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
	●-●	BH-3	1.50	1.95	CH	3	8	89		---	---	---	---	---	58	23	35	SPT
L-429	■-■	BH-3	3.00	3.45	CH	5	25	70		---	---	---	---	---	56	24	32	SPT
	▲-▲	BH-3	5.00	5.45	CH	2	22	76		---	---	---	---	---	57	23	34	SPT
	✳-✳																	
	◆-◆																	

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-4	1.50	1.95	SPT	----	----	38	CH	10	13	77		56	23	33	----	----	----	----	----	----	
BH-4	3.00	3.45	SPT	----	----	38	SM	1	71	28		NP	NP	NP	----	----	----	----	----	----	
BH-4	5.00	5.45	SPT	----	----	38	SM	3	71	26		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

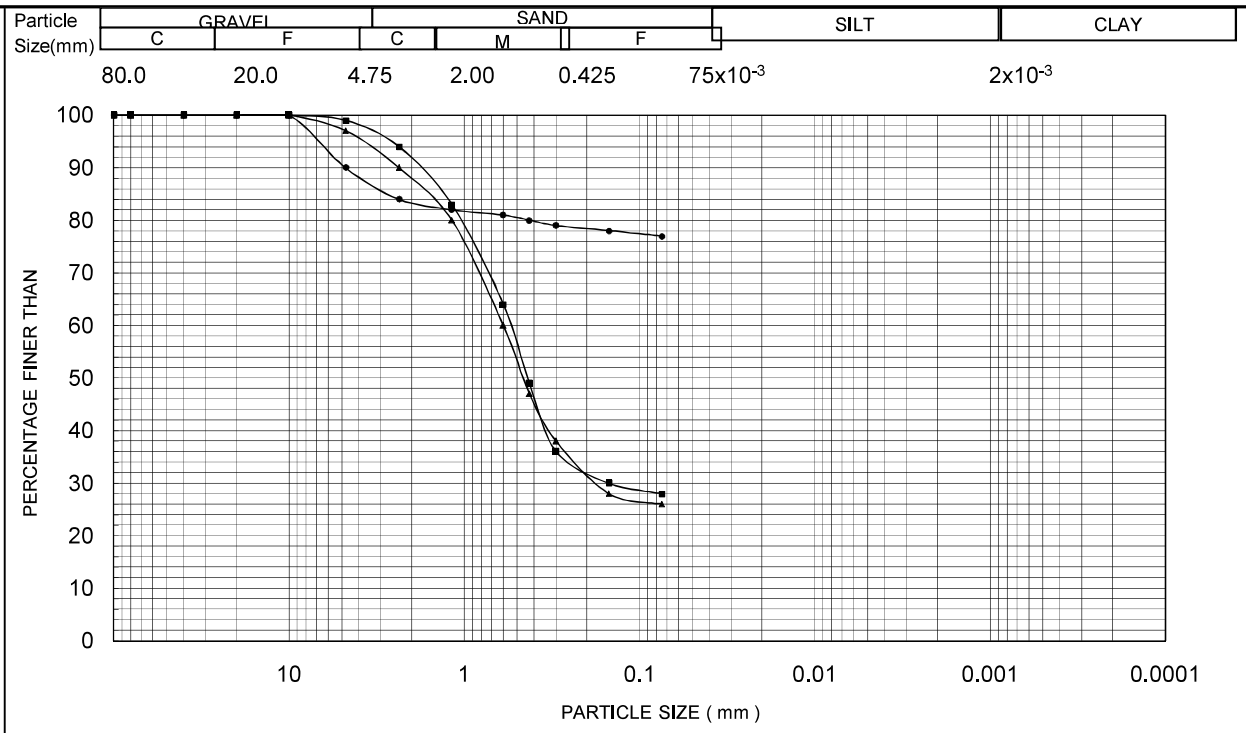
SHREE SAMARTH GEOTECHNIC Job No. L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Job No.	Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
	●-●	BH-4	1.50	1.95	CH	10	13	77		---	---	---	---	---	56	23	33	SPT
L-429	■-■	BH-4	3.00	3.45	SM	1	71	28		---	---	---	---	---	NP	NP	NP	SPT
	▲-▲	BH-4	5.00	5.45	SM	3	71	26		---	---	---	---	---	NP	NP	NP	SPT
	✳-✳																	
	◆-◆																	

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-5	5.00	5.25	SPT	----	----	38	SM	4	76	20		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

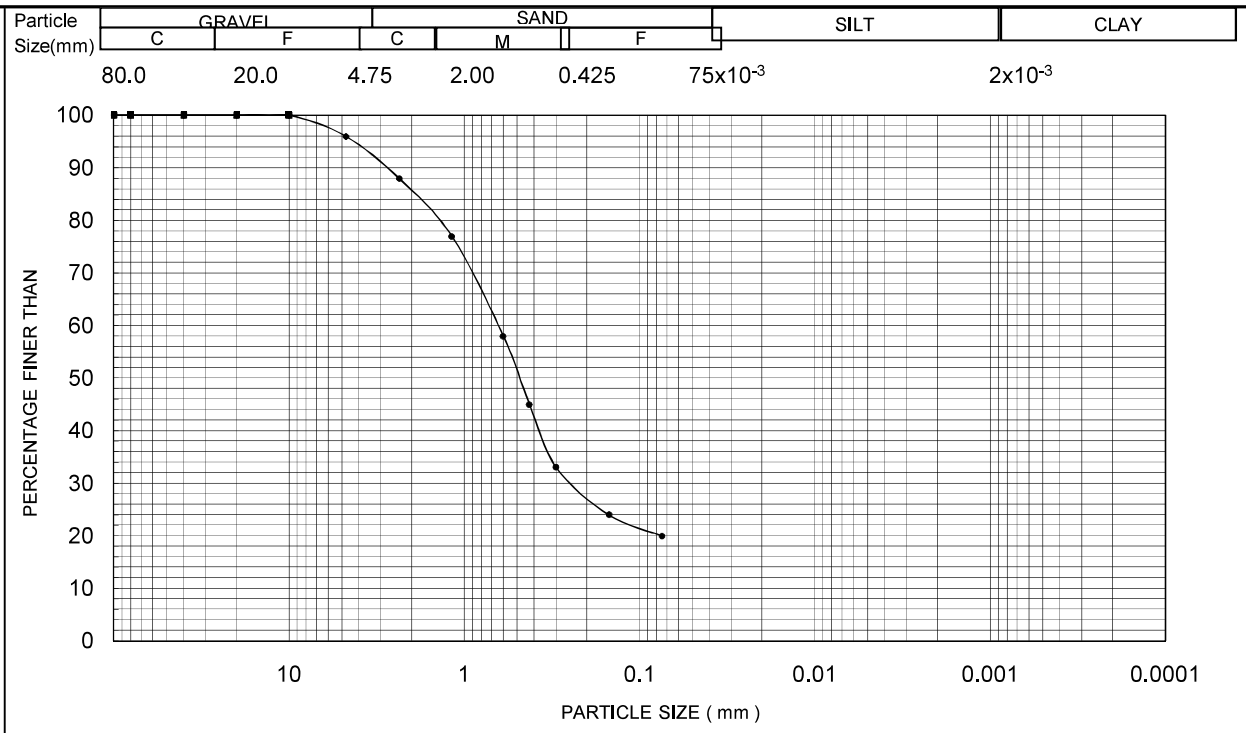
SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●—●	BH-5	5.00	5.25	SM	4	76	20		---	---	---	---	---	NP	NP	NP	SPT
■—■																	
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Job No. L-429

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-6	1.50	1.62	SPT	----	----	38	SM	3	81	16		NP	NP	NP	----	----	----	----	----	----	
BH-6	5.00	5.26	SPT	----	----	38	SM	5	74	21		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

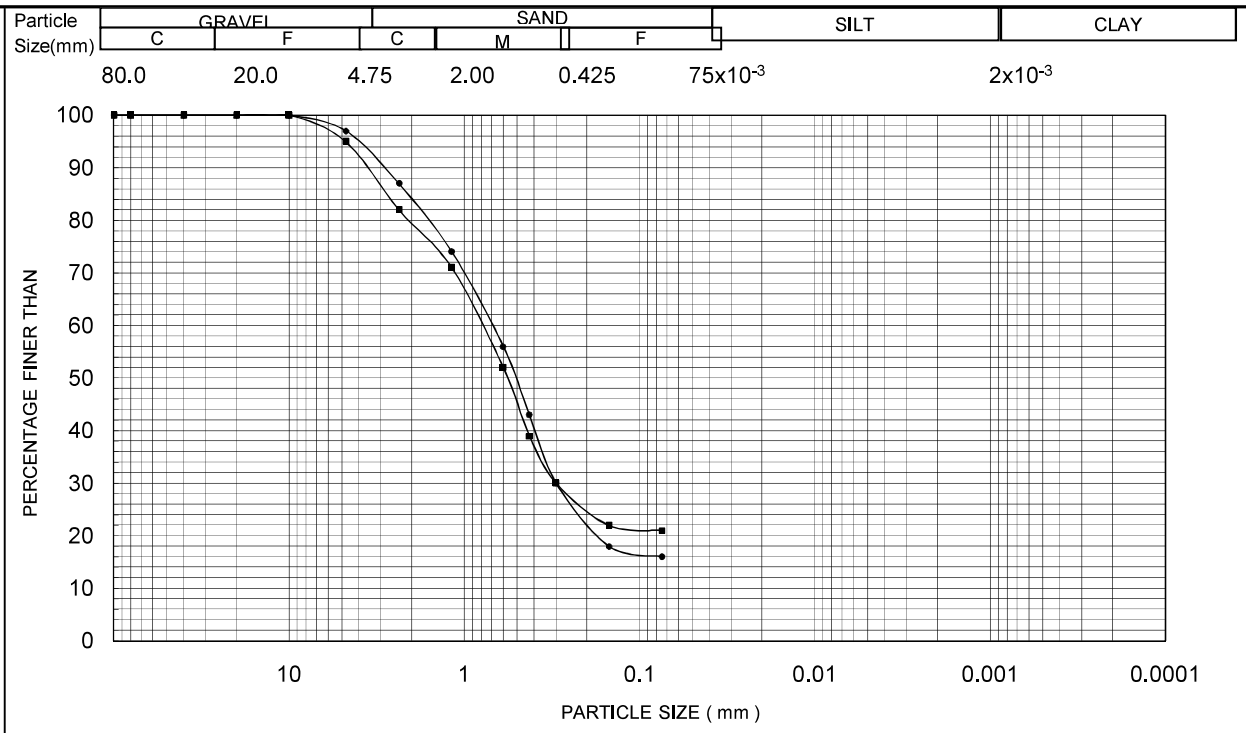
SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●—●	BH-6	1.50	1.62	SM	3	81	16		---	---	---	---	---	NP	NP	NP	SPT
■—■	BH-6	5.00	5.26	SM	5	74	21		---	---	---	---	---	NP	NP	NP	SPT
▲—▲																	
✳—✳																	
◆—◆																	

Job No. L-429

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-7	1.50	1.95	SPT	----	----	38	SM	1	61	38		NP	NP	NP	----	----	----	----	----	----	
BH-7	3.00	3.08	SPT	----	----	38	SM	3	61	36		NP	NP	NP	----	----	----	----	----	----	
BH-7	5.00	5.12	SPT	----	----	38	SM	5	58	37		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

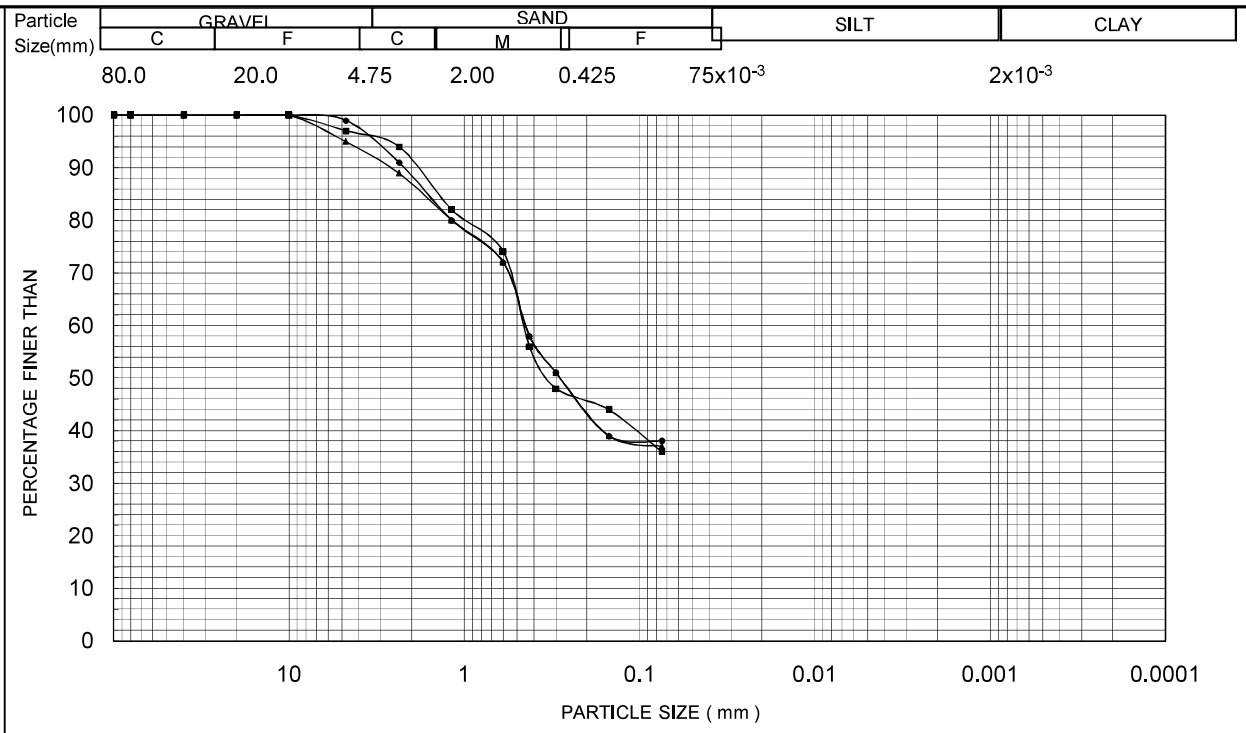
SHREE SAMARTH GEOTECHNIC Job No. L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Job No.	Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
L-429	●-●	BH-7	1.50	1.95	SM	1	61	38		---	---	---	---	---	NP	NP	NP	SPT
	■-■	BH-7	3.00	3.08	SM	3	61	36		---	---	---	---	---	NP	NP	NP	SPT
	▲-▲	BH-7	5.00	5.12	SM	5	58	37		---	---	---	---	---	NP	NP	NP	SPT
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SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-8	1.50	1.95	SPT	1.56	1.13	38	SM	18	52	30		NP	NP	NP	----	----	----	----	----	----	
BH-8	3.00	3.13	SPT	1.56	1.13	38	SM	10	62	28		NP	NP	NP	----	----	----	----	----	----	
BH-8	5.00	5.45	SPT	1.56	1.13	38	SM	15	56	29		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained *Cu* : Undrained Cohesion CHEM Chemical Analysis

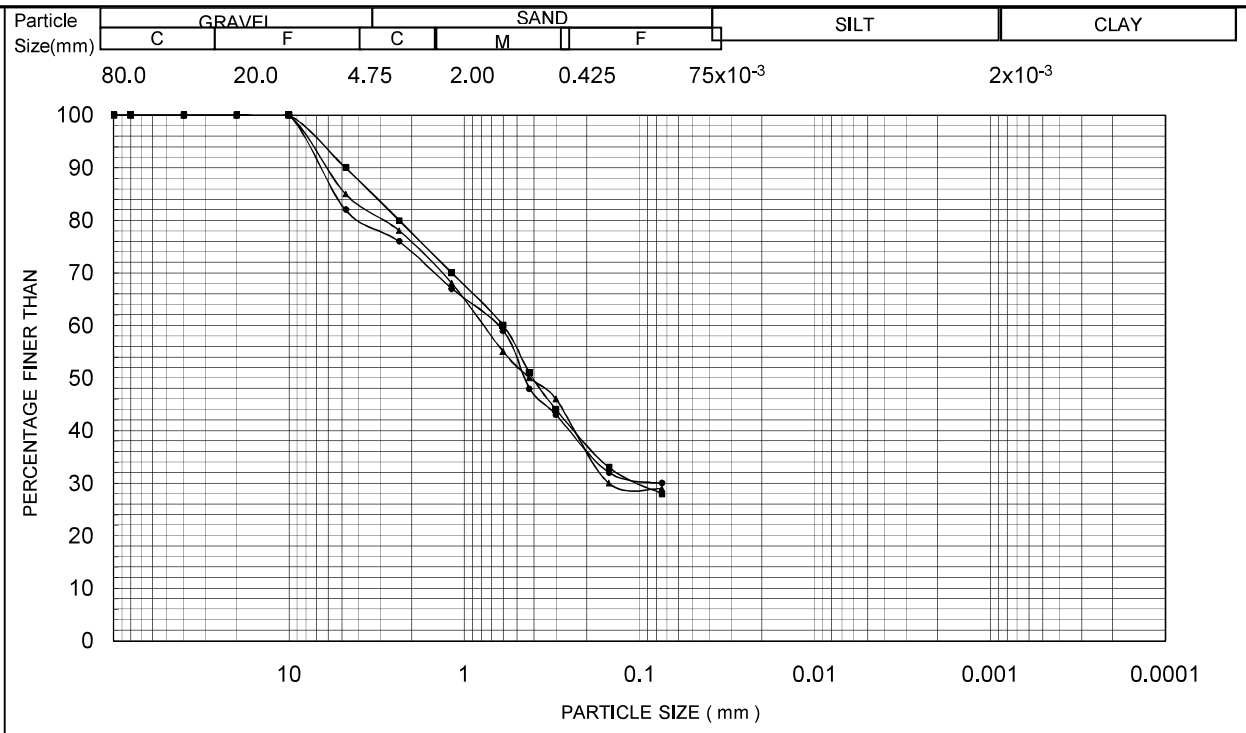
SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Job No. L-429

Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●-●	BH-8	1.50	1.95	SM	18	52	30		---	---	---	---	---	NP	NP	NP	SPT
■-■	BH-8	3.00	3.13	SM	10	62	28		---	---	---	---	---	NP	NP	NP	SPT
▲-▲	BH-8	5.00	5.45	SM	15	56	29		---	---	---	---	---	NP	NP	NP	SPT
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SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-9	5.00	5.45	SPT	1.56	1.13	38	SM	5	68	27		NP	NP	NP	----	----	----	----	----	----	
0	0.00	0.00	0	1.56	1.13	38	0	0	0	0		0	0	0	----	----	----	----	----	----	
0	0.00	0.00	0	1.56	1.13	38	0	0	0	0		0	0	0	----	----	----	----	----	----	

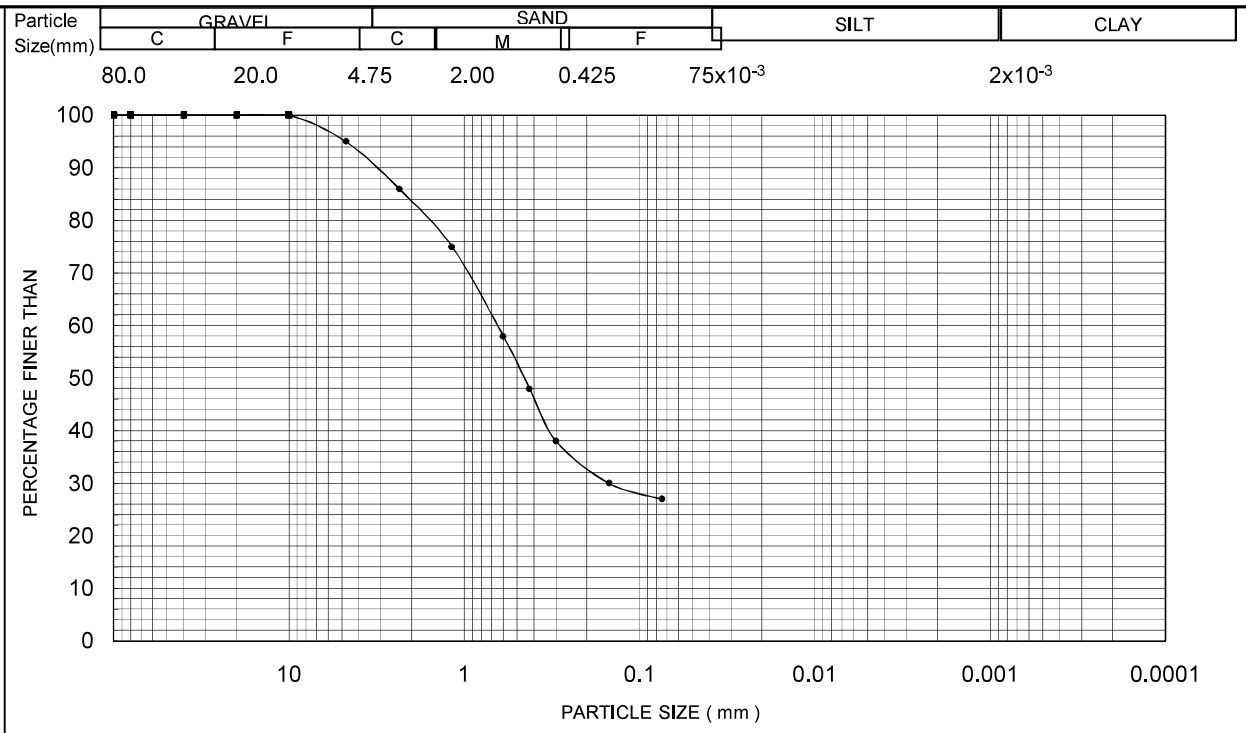
SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained *Cu* : Undrained Cohesion CHEM Chemical Analysis

SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●—●	BH-9	5.00	5.45	SM	5	68	27		---	---	---	---	---	NP	NP	NP	SPT
■—■																	
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SHREE SAMARTH GEOTECHNIC

Job No. L-429

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-10	1.50	1.95	SPT	1.56	1.13	38	SM	5	80	15		NP	NP	NP	----	----	----	----	----	----	
BH-10	3.00	3.45	SPT	1.56	1.13	38	SM	6	79	15		NP	NP	NP	----	----	----	----	----	----	
BH-10	5.00	5.27	SPT	1.56	1.13	38	SM	10	76	14		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained *Cu* : Undrained Cohesion CHEM Chemical Analysis

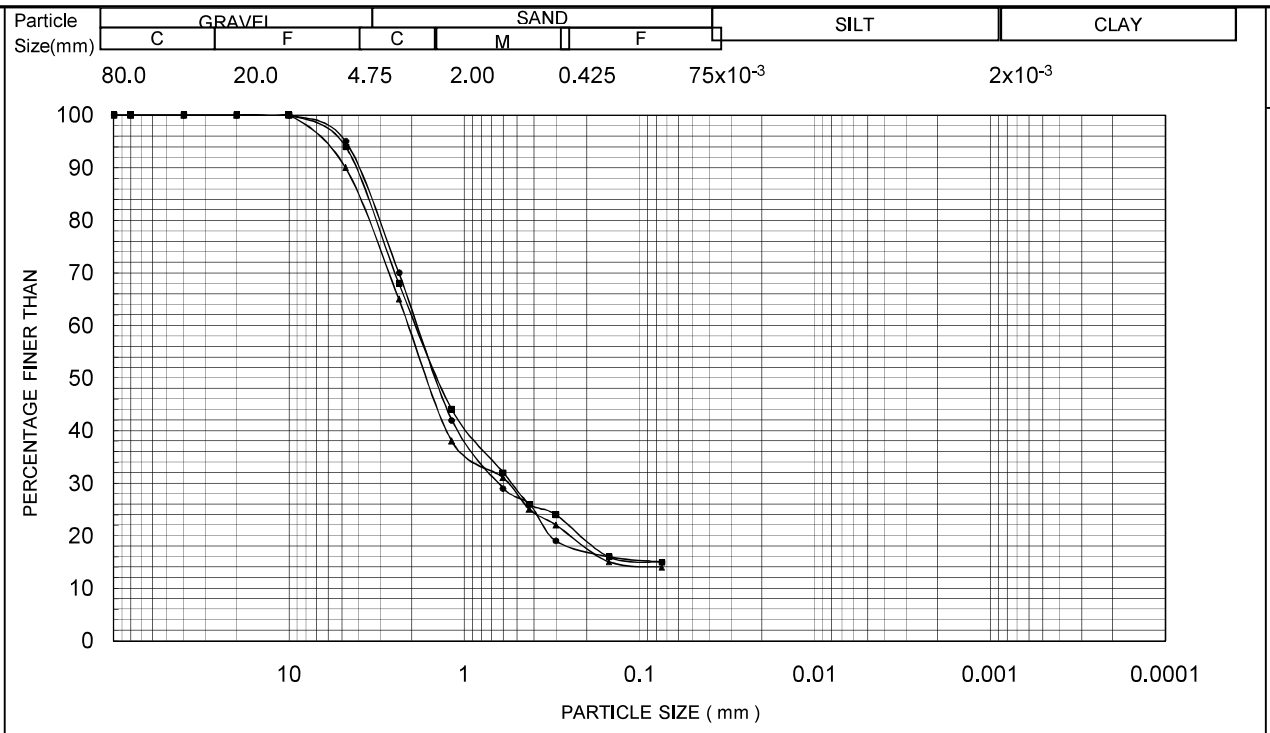
SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Job No. L-429

Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●-●	BH-10	1.50	1.95	SM	5	80	15		---	---	---	---	---	NP	NP	NP	SPT
■-■	BH-10	3.00	3.45	SM	6	79	15		---	---	---	---	---	NP	NP	NP	SPT
▲-▲	BH-10	5.00	5.27	SM	10	76	14		---	---	---	---	---	NP	NP	NP	SPT
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SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-11	2.00	2.45	SPT	1.56	1.13	38	SM	1	66	33		NP	NP	NP	----	----	----	----	----	----	
BH-11	3.50	3.90	SPT	1.56	1.13	38	SP	1	96	3		NP	NP	NP	----	----	----	----	----	----	
BH-11	5.00	5.28	SPT	1.56	1.13	38	SM	15	56	29		NP	NP	NP	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained Cu : Undrained Cohesion CHEM Chemical Analysis

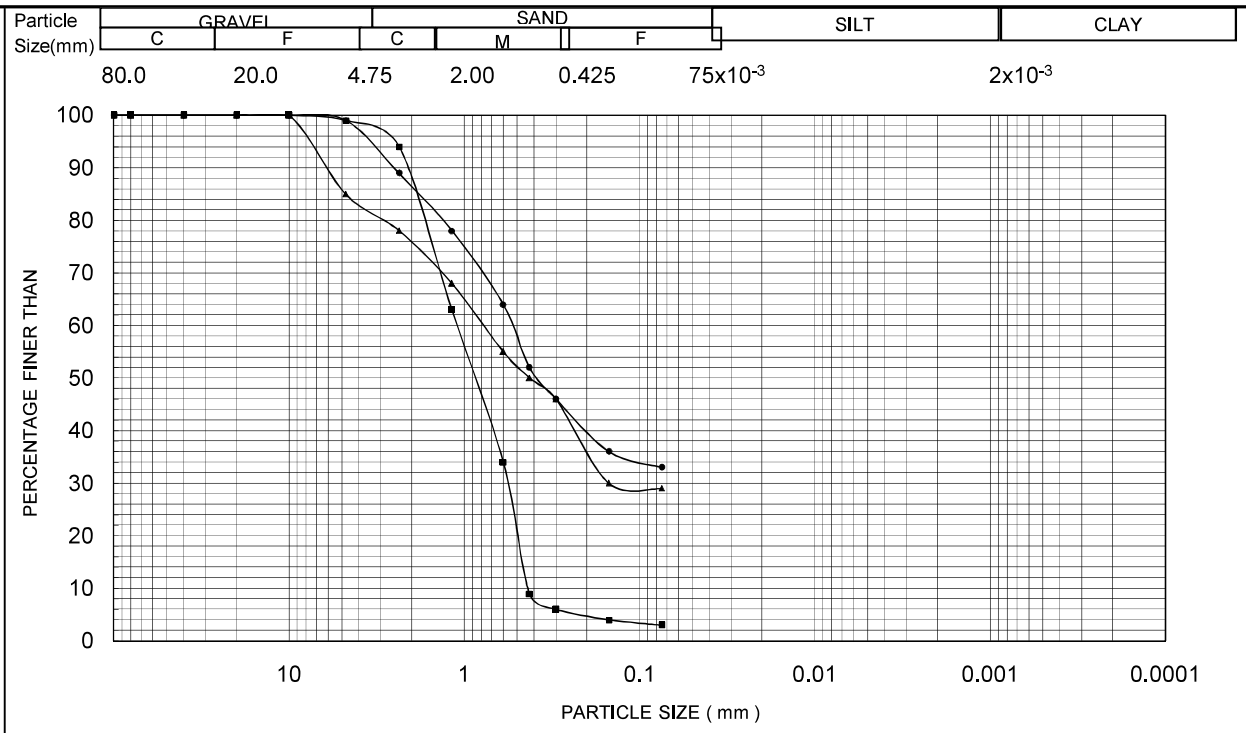
SHREE SAMARTH GEOTECHNIC Job No. L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●-●	BH-11	2.00	2.45	SM	1	66	33		---	---	---	---	---	NP	NP	NP	SPT
■-■	BH-11	3.50	3.90	SP	1	96	3		---	---	---	---	---	NP	NP	NP	SPT
▲-▲	BH-11	5.00	5.28	SM	15	56	29		---	---	---	---	---	NP	NP	NP	SPT
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Job No. L-429

SOIL TEST DATA SHEET

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

Location

Date : 18.06.2021

Bore Hole	Depth in mtrs.		Sample Type	Density		Natural Moisture Content	Soil Classification	Mechanical Analysis				Consistancy Limits				Shear Strength Test			Free swell Index	Specific Gravity	Remarks
				Wet	Dry			Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity Index, I_p	Shrinkage S_L	Type	Cohesion C_u	Degree			
No.	From	To	UD/ SPT	gm/cm^3		%	0	%	%	%	%	%	%	%	%	kg/cm^2		ϕ	%	G	
BH-12	1.50	1.73	SPT	1.56	1.13	38	SM	3	71	26		NP	NP	NP	----	----	----	----	----	----	
BH-12	3.00	3.26	SPT	1.56	1.13	38	SM	5	80	15		NP	NP	NP	----	----	----	----	----	----	
BH-12	0.00	0.00	0	1.56	1.13	38	0	0	0	0		0	0	0	----	----	----	----	----	----	

SPT : Standard Penetration Test DS : Direct Shear test ϕ : Angle of Internal Friction K : Permeability Test
UDS : Undisturbed Soil Sample UU : Unconsolidated Undrained *Cu* : Undrained Cohesion CHEM Chemical Analysis

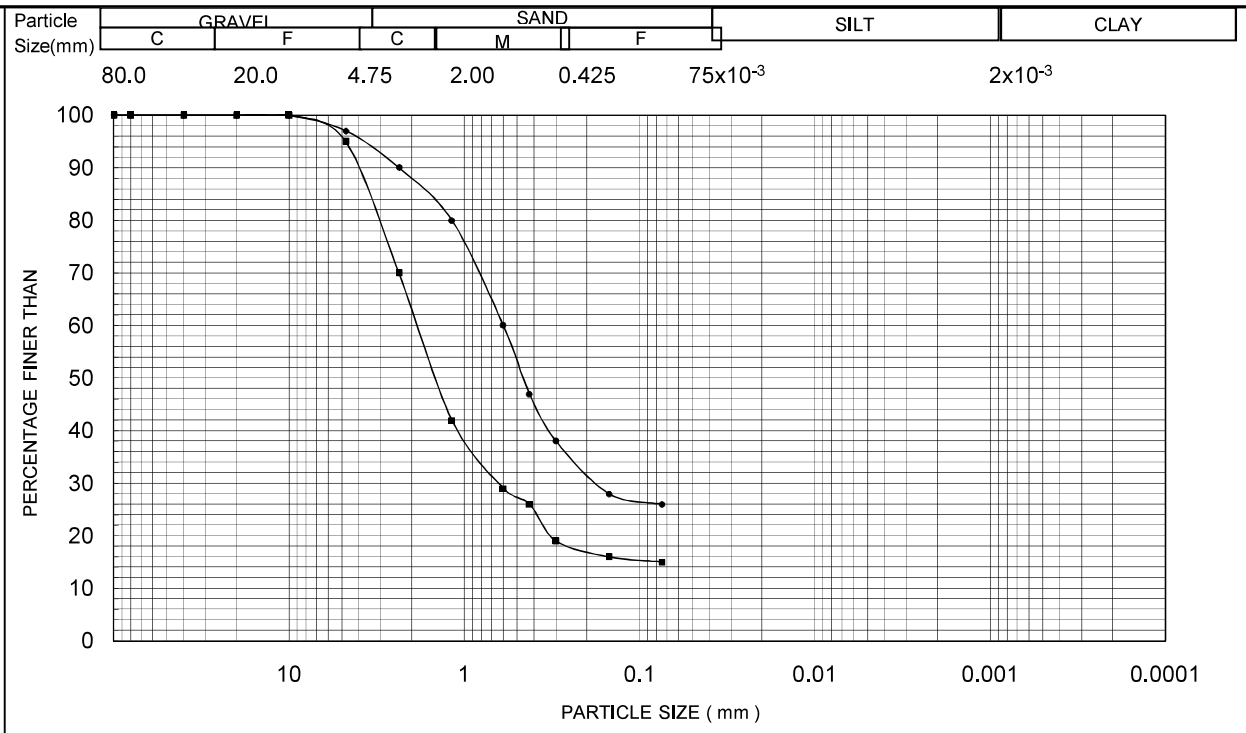
SHREE SAMARTH GEOTECHNIC | Job No. | L-429

GRAIN SIZE DISTRIBUTION ANALYSIS

Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.

Clients : DELOITE TOUCHE TOHMATSU INDIA,

SHREE SAMARTH GEOTECHNIC



Symbol	Bore Hole No.	Depth in mtrs. From	Depth in mtrs. To	Classification	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coefficient of Uniformity, $C_u = D_{60}/D_{10}$	Coefficient of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
●—●	BH-12	1.50	1.73	SM	3	71	26		---	---	---	---	---	NP	NP	NP	SPT
■—■	BH-12	3.00	3.26	SM	5	80	15		---	---	---	---	---	NP	NP	NP	SPT
▲—▲	BH-12																
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Job No. L-429

SOIL TEST DATA SHEET

Report Ref.:- *SKW/SSG/OMKARESHWAR/JUNE/01*

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 02	0.00 - 0.10	UDS 1	1.93	1.525	26.58	CI	4	9	53	34	38	20	18	-----	TUU	0.12	6.62	-----	-----	-----	-----	2.65	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
Tcd : Triaxial Test (Consolidated Drained)
NP : Non Plastic
SL : Shrikage Limit Test

SP : Swelling Pressure or Swelling Potential Test
SPT : Standard Penetration Test Sample
UDS : Undisturbed Soil Sample
VL : Laboratory Vane Shear Test
UC : Unconfined Compression Test

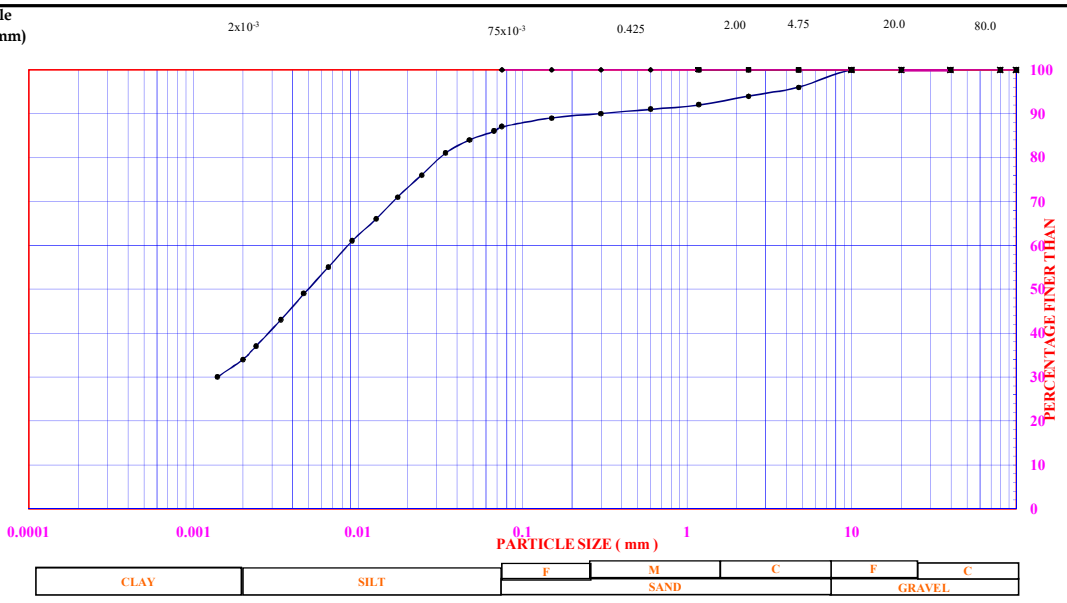
φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 02	0.00 - 0.10	CI	4	9	53	34	-----	-----	-----	-----	-----	38	20	18	UDS 1
—■—■																
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SKW SOIL AND SURVEYS PVT. LTD.

Certificate No. TC-8432

SOIL TEST DATA SHEET

Report Ref.:- *SKW/SSG/OMKARESHWAR/JUNE/01*

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 03	0.00 - 0.50	UDS 1	1.92	1.50	27.76	CI	2	11	55	32	37	21	16	-----	TUU	0.10	7.52	-----	-----	-----	-----	2.66	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
Tcd : Triaxial Test (Consolidated Drained)
NP : Non Plastic
SL : Shrikage Limit Test

SP : Swelling Pressure or Swelling Potential Test
SPT : Standard Penetration Test Sample
UDS : Undisturbed Soil Sample
VL : Laboratory Vane Shear Test
UC : Unconfined Compression Test

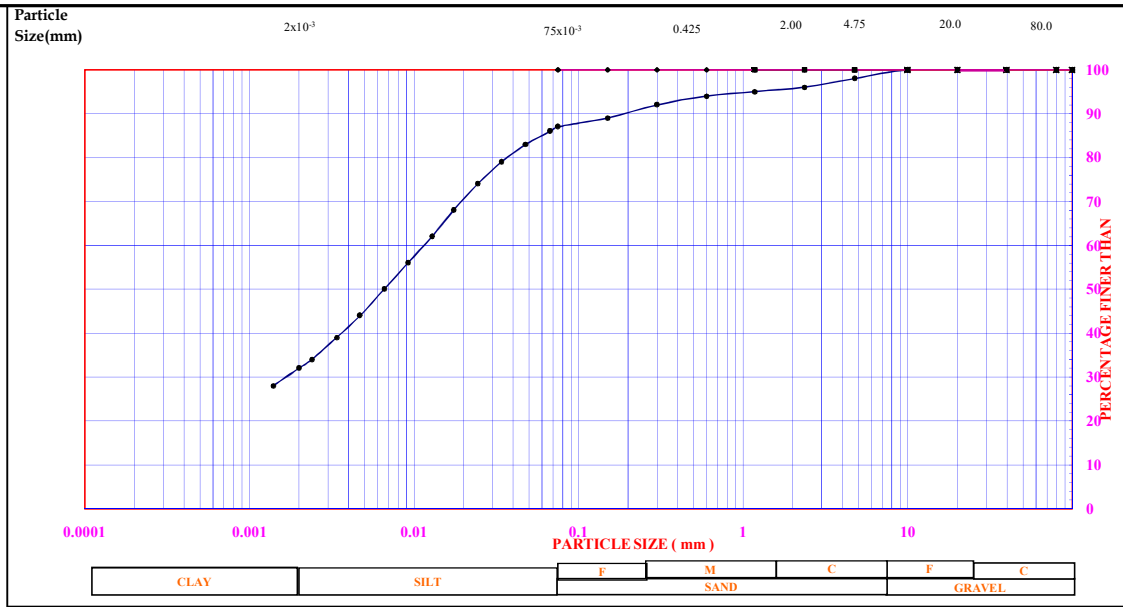
φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 03	0.00 - 0.50	CI	2	11	55	32	-----	-----	-----	-----	-----	37	21	16	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

SKW SOIL AND SURVEYS PVT. LTD.

Certificate No. TC-8432

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SOIL TEST DATA SHEET

Report Ref.:- *SKW/SSG/OMKARESHWAR/JUNE/01*

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 04	0.00 - 0.50	UDS 1	1.79	1.30	38.16	CI	3	11	57	29	40	18	22	-----	TUU	0.09	9.09	-----	-----	-----	-----	2.64	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
Tcd : Triaxial Test (Consolidated Drained)
NP : Non Plastic
SL : Shrikage Limit Test

SP : Swelling Pressure or Swelling Potential Test
SPT : Standard Penetration Test Sample
UDS : Undisturbed Soil Sample
VL : Laboratory Vane Shear Test
UC : Unconfined Compression Test

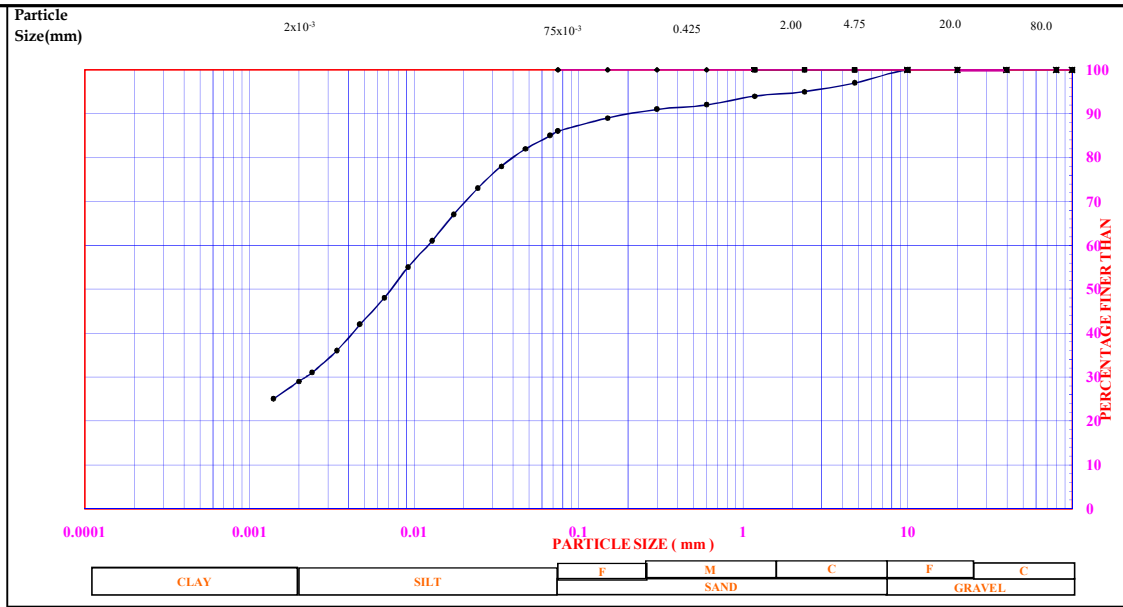
φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 04	0.00 - 0.50	CI	3	11	57	29	-----	-----	-----	-----	-----	40	18	22	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

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SOIL TEST DATA SHEET

Report Ref.:- *SKW/SSG/OMKARESHWAR/JUNE/01*

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 05	0.00 - 0.40	UDS 1	1.92	1.516	26.67	CI	0	12	56	32	37	17	20	-----	TUU	0.16	5.03	-----	-----	-----	-----	2.65	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
Tcd : Triaxial Test (Consolidated Drained)
NP : Non Plastic
SL : Shrikage Limit Test

SP : Swelling Pressure or Swelling Potential Test
SPT : Standard Penetration Test Sample
UDS : Undisturbed Soil Sample
VL : Laboratory Vane Shear Test
UC : Unconfined Compression Test

φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

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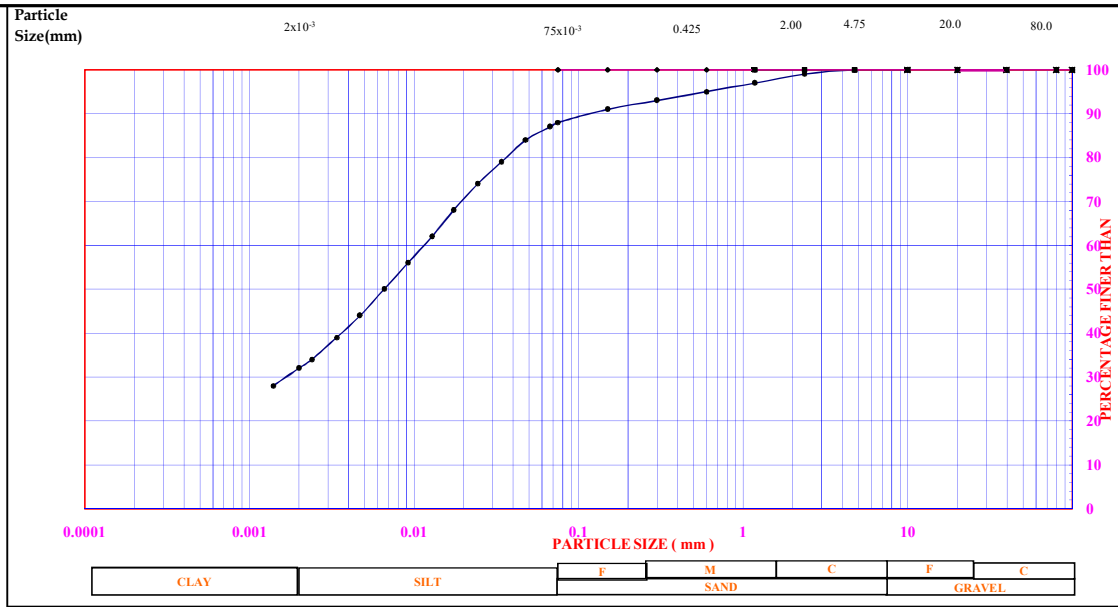

Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	D_{10} mm	D_{30} mm	D_{60} mm	Coeff. of Uniformity, $C_u = D_{60} / D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 05	0.00 - 0.40	CI	0	12	56	32	-----	-----	-----	-----	-----	37	17	20	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

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Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 06	0.00 - 0.30	UDS 1	1.85	1.40	31.94	CI	8	11	47	34	40	19	21	-----	TUU	0.18	3.43	-----	-----	-----	-----	2.63	

CHEM :	Tuu : Triaxial Test (Unconsolidated Undrained)	SP : Swelling Pressure or Swelling Potential Test	φ : Angle of Internal Friction
COMP :	Tcu : Triaxial Test (Consolidated Undrained)	SPT : Standard Penetration Test Sample	Cc : Undrained Cohesion
DS :	Tcd : Triaxial Test (Consolidated Drained)	UDS : Undisturbed Soil Sample	φ' : Effective Angle of Internal Friction
K :	NP : Non Plastic	VL : Laboratory Vane Shear Test	Cc' Effective Cohesion
PSI :	SL : Shrikage Limit Test	UC : Unconfined Compression Test	-----> : Combined Silt + Clay

SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

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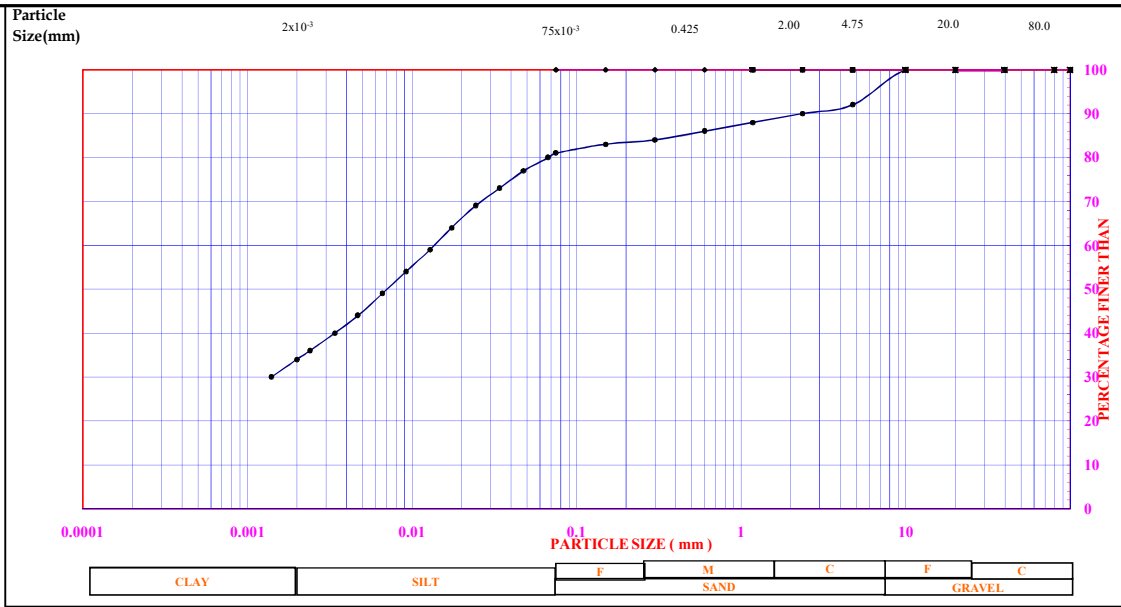
Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 06	0.00 - 0.30	CI	8	11	47	34	-----	-----	-----	-----	-----	40	19	21	UDS 1
—■—■																
—▲—▲																
—✳—✳																
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SOIL TEST DATA SHEET

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Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 07	0.00 - 0.50	UDS 1	1.98	1.636	21.02	CI	2	15	52	31	41	20	21	-----	TUU	0.13	5.71	-----	-----	-----	-----	2.65	

CHEM :	Tuu : Triaxial Test (Unconsolidated Undrained)	SP : Swelling Pressure or Swelling Potential Test	φ : Angle of Internal Friction
COMP :	Tcu : Triaxial Test (Consolidated Undrained)	SPT : Standard Penetration Test Sample	Cc : Undrained Cohesion
DS :	Tcd : Triaxial Test (Consolidated Drained)	UDS : Undisturbed Soil Sample	φ' : Effective Angle of Internal Friction
K :	NP : Non Plastic	VL : Laboratory Vane Shear Test	Cc' Effective Cohesion
FSI :	SL : Shrikage Limit Test	UC : Unconfined Compression Test	-----> : Combined Silt + Clay

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GRAIN SIZE DISTRIBUTION CURVE

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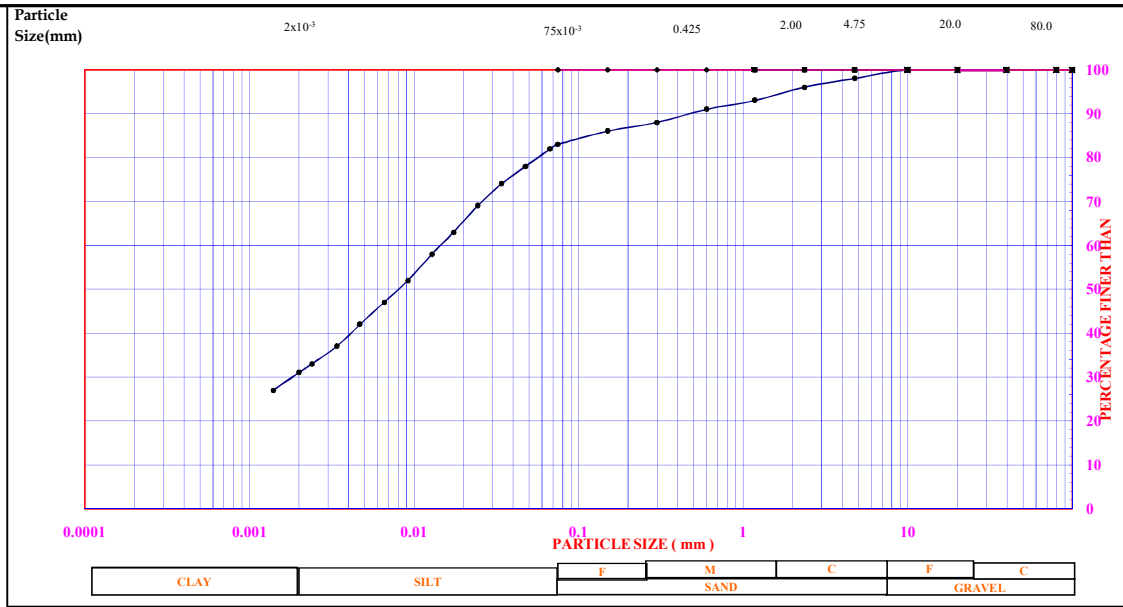

Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	D_{10} mm	D_{30} mm	D_{60} mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 07	0.00 - 0.50	CI	2	15	52	31	-----	-----	-----	-----	-----	41	20	21	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

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Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 08	0.00 - 0.50	UDS 1	1.88	1.445	30.08	CI	0	12	56	32	36	17	19	-----	TUU	0.18	6.62	-----	-----	-----	-----	2.66	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
Tcd : Triaxial Test (Consolidated Drained)
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φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
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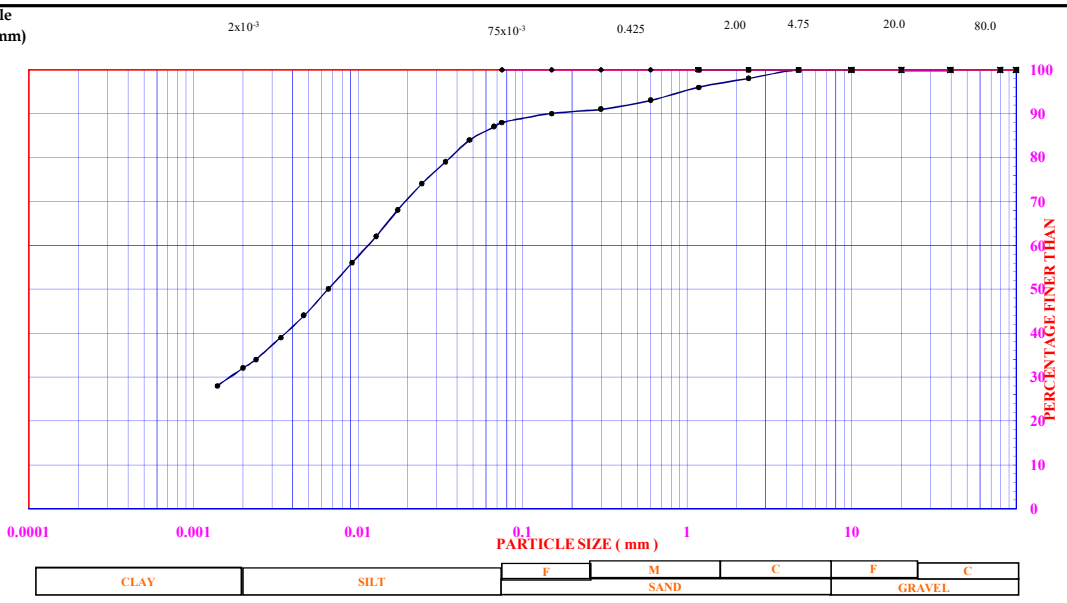
SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 08	0.00 - 0.50	CI	0	12	56	32	-----	-----	-----	-----	-----	36	17	19	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

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Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 09	0.00 - 0.50	UDS 1	1.80	1.30	38.77	CI	0	11	57	32	42	21	21	-----	TUU	0.11	3.66	-----	-----	-----	-----	2.65	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
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φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

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GRAIN SIZE DISTRIBUTION CURVE

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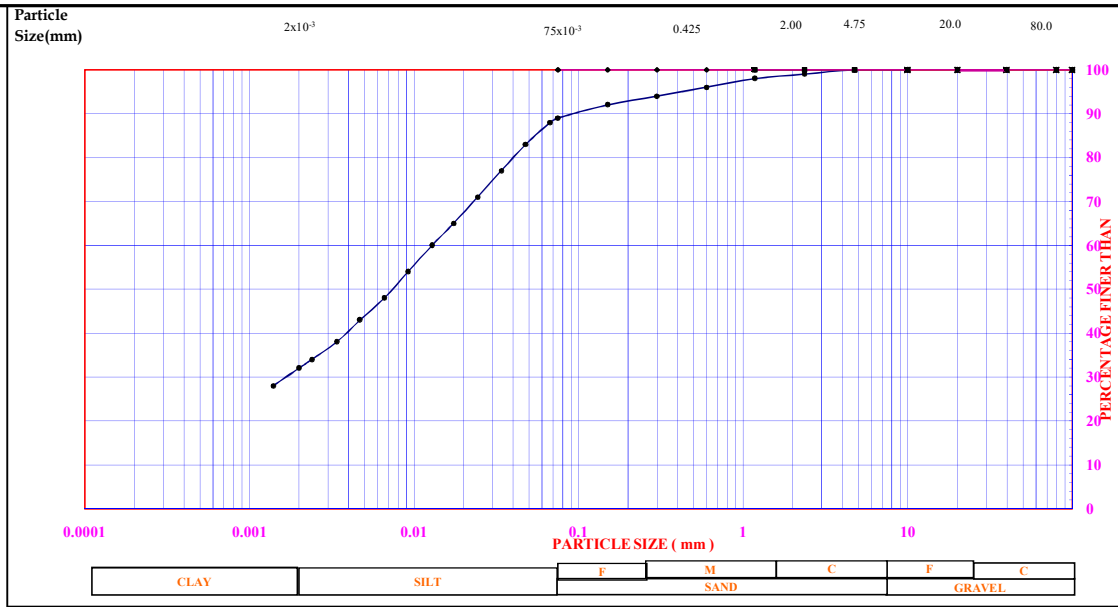

Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	D_{10} mm	D_{30} mm	D_{60} mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 09	0.00 - 0.50	CI	0	11	57	32	-----	-----	-----	-----	-----	42	21	21	UDS 1
—■—■																
—▲—▲																
—✳—✳																
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Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Direct Shear Test (IS 2720 Part 13-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 10	0.00 - 0.50	UDS 1	2.08	1.79	16.20	GM	38	33	29		NP			-----	DSUU	0.06	31.96	-----	-----	-----	-----	2.68	

CHEM :	Tuu : Triaxial Test (Unconsolidated Undrained)	SP : Swelling Pressure or Swelling Potential Test	φ : Angle of Internal Friction
COMP :	Tcu : Triaxial Test (Consolidated Undrained)	SPT : Standard Penetration Test Sample	Cc : Undrained Cohesion
DS :	Tcd : Triaxial Test (Consolidated Drained)	UDS : Undisturbed Soil Sample	φ' : Effective Angle of Internal Friction
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PSI :	SL : Shrikage Limit Test	UC : Unconfined Compression Test	-----> : Combined Silt + Clay

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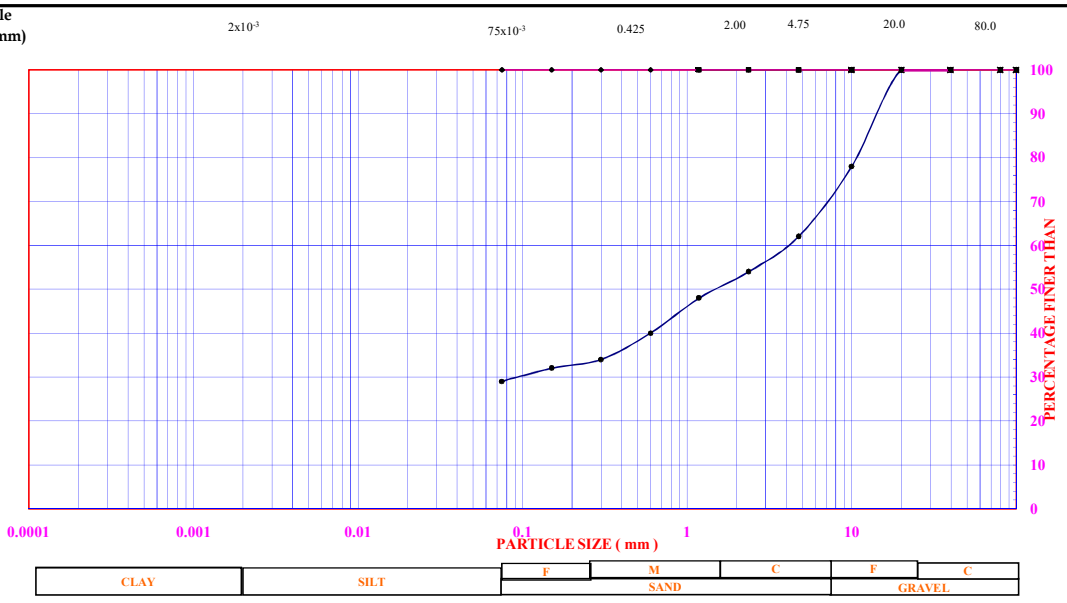

Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	$\phi_{10\%}$ mm	$\phi_{30\%}$ mm	$\phi_{60\%}$ mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 10	0.00 - 0.50	**GM**	38	33	29		-----	-----	-----	-----	-----	NP			UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

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Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 11	0.00 - 0.50	UDS 1	1.96	1.593	23.05	CI	3	11	54	32	37	16	21	-----	TUU	0.20	4.12	-----	-----	-----	-----	2.64	

CHEM :
COMP :
DS :
K :
PSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
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SP : Swelling Pressure or Swelling Potential Test
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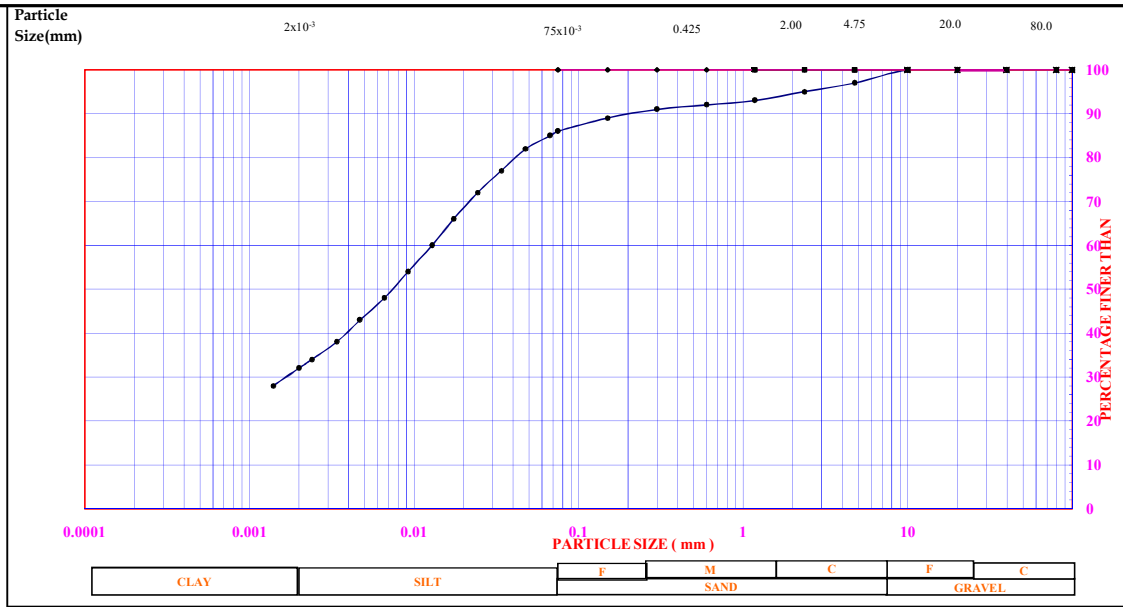
φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	D_{10} mm	D_{30} mm	D_{60} mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 11	0.00 - 0.50	CI	3	11	54	32	-----	-----	-----	-----	-----	37	16	21	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

Certificate No. TC-8432

SKW SOIL AND SURVEYS PVT. LTD.

SOIL TEST DATA SHEET

Report Ref.:- *SKW/SSG/OMKARESHWAR/JUNE/01*

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Date :- *21.06.2021*

Certificate No.: TC-8432

Bore Hole No.	Depth in m.	Sample Type	Density gm/ cm³ (IS 2720 Part 7-2016 & Part 8-2015)		Natural Moisture Content, w % (IS 2720 Part 2-2015)	Soil Classification (I.S) (IS 1498-2016)	Mechanical Analysis (IS 2720 Part 4-2015)				Consistency Limits (IS 2720 Part 5-2015)			Shrinkage Limit % (IS 2720 Part 6-2016)	Triaxial Shear Test (IS 2720 Part 11-2016)			Unconfined Compression Test Kg/cm² (IS 2720 Part 10-2015)	Free Swell Index % (IS 2720 Part 40-2016)	Vertical Consolidation (IS 2720 Part 15-2016)		Specific Gravity (IS 2720 Part 3-2016)	Remarks
			Wet Density	Dry Density			Gravel %	Sand %	Silt %	Clay %	Liquid %	Plastic %	Plasticity Index, I_p %		Type	Cohesion C_u kg/cm²	Degree φ			Comp. Index C_c (Lab)	Initial Void Ratio		
BH - 12	0.00 - 0.40	UDS 1	1.86	1.427	30.31	CI	4	9	53	34	44	21	23	-----	TUU	0.15	3.89	-----	-----	-----	-----	2.65	

CHEM :
COMP :
DS :
K :
FSI :

Tuu : Triaxial Test (Unconsolidated Undrained)
Tcu : Triaxial Test (Consolidated Undrained)
Tcd : Triaxial Test (Consolidated Drained)
NP : Non Plastic
SL : Shrikage Limit Test

SP : Swelling Pressure or Swelling Potential Test
SPT : Standard Penetration Test Sample
UDS : Undisturbed Soil Sample
VL : Laboratory Vane Shear Test
UC : Unconfined Compression Test

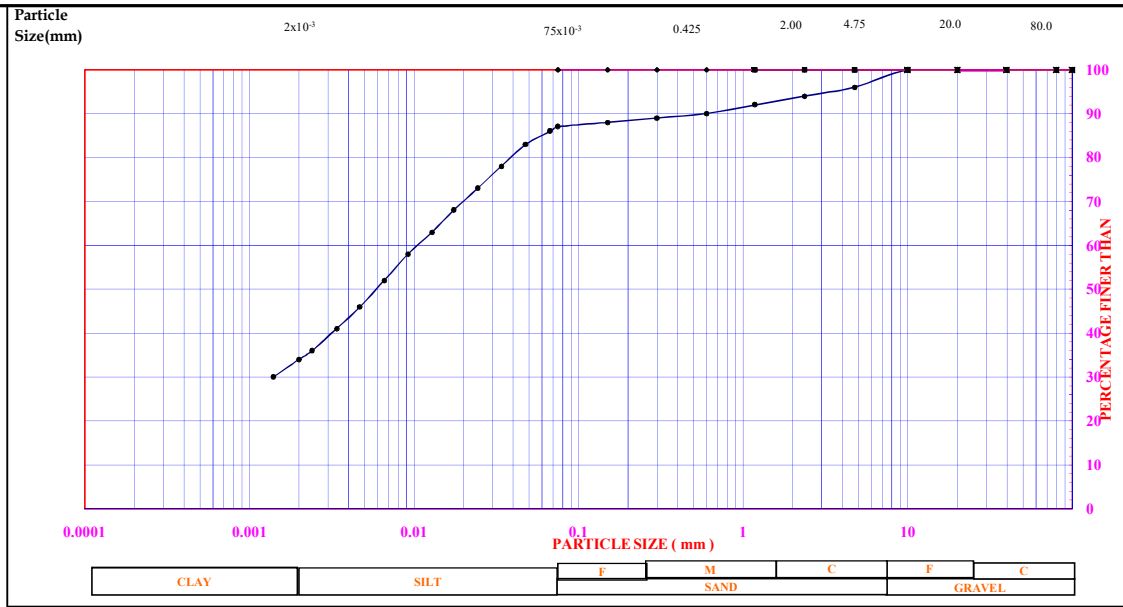
φ : Angle of Internal Friction
Cc : Undrained Cohesion
φ' : Effective Angle of Internal Friction
Cc' Effective Cohesion
-----> : Combined Silt + Clay

SKW SOIL AND SURVEYS PVT. LTD.

GRAIN SIZE DISTRIBUTION CURVE

Project : *Geotechnical Investigation works Supreme Infra Project OMKARESHWER.*

Report Ref:- *SKW/SSG/OMKARESHWAR/JUNE/01*



Symbol	Bore Hole No.	Depth in m.	Classifi--cation (IS)	Gravel %	Sand %	Silt %	Clay %	D_{10} mm	D_{30} mm	D_{60} mm	Coeff. of Uniformity, $C_u = D_{60}/D_{10}$	Coeff. Of Curvature C_c $D_{30}^2/(D_{60}*D_{10})$	Liquid Limit, W_l	Plastic Limit, W_p	Plasticity Index, I_p	Remarks
—●—●	BH - 12	0.00 - 0.40	CI	4	9	53	34	-----	-----	-----	-----	-----	44	21	23	UDS 1
—■—■																
—▲—▲																
—✳—✳																
—◆—◆																

SKW SOIL AND SURVEYS PVT. LTD.

Certificate No. TC-8432

SKW SOIL AND SURVEYS PVT. LTD. NAVI MUMBAI

SKW SOIL AND SURVEYS PVT. LTD.

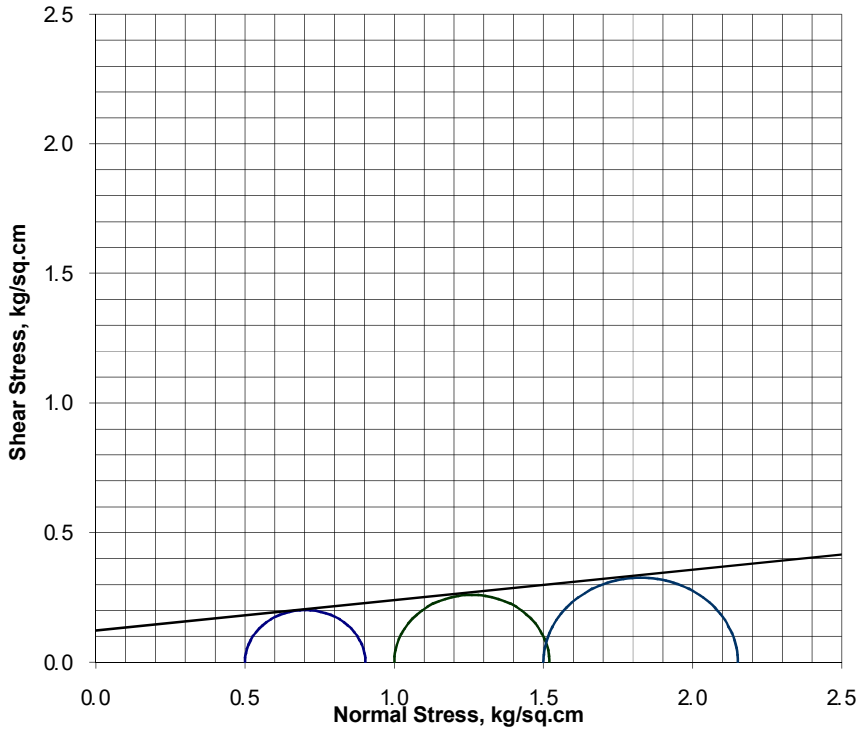
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 2
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.10
Dry Density, γ_d :	1.52	g/cm^3	Condition of Test :	UU
Moisture Content:	26.58	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**4.97**	0.403	0.903	0.00	**6.08**	8.00
2	1.00	**6.48**	0.520	1.520	0.00	**6.84**	9.00
3	1.50	**8.21**	0.652	2.152	0.00	**7.60**	10.00



Cohesion: 0.12 kg/cm^2 Angle of internal friction, ø: 6.62

SKW SOIL AND SURVEYS PVT. LTD.

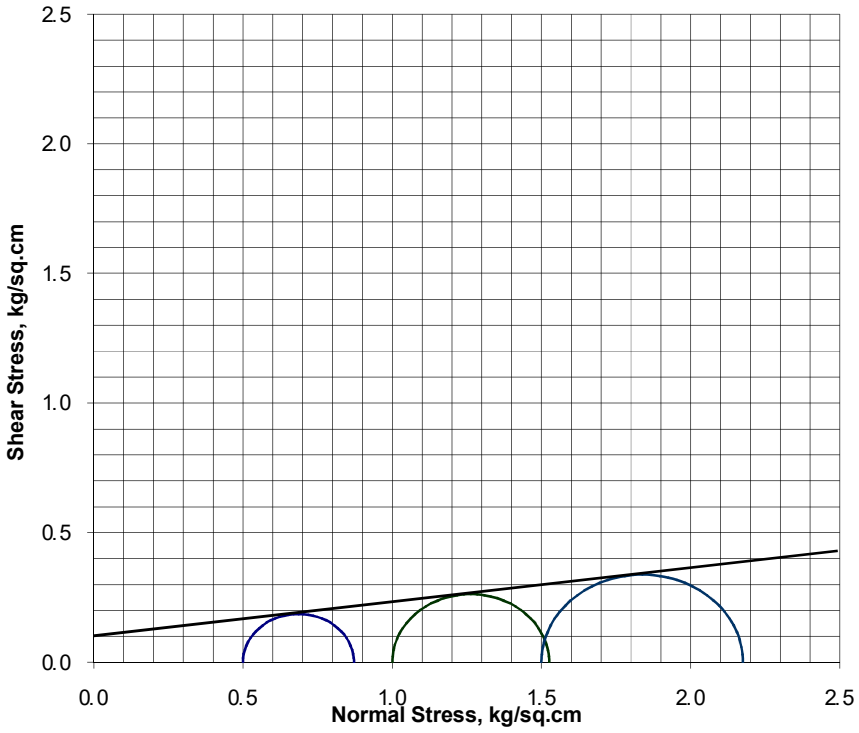
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 3
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.50
Dry Density, γ_d :	1.50	g/cm^3	Condition of Test :	UU
Moisture Content:	27.76	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**4.54**	0.372	0.872	0.00	**5.32**	7.00
2	1.00	**6.48**	0.526	1.526	0.00	**6.08**	8.00
3	1.50	**8.42**	0.676	2.176	0.00	**6.84**	9.00



Cohesion: 0.1 kg/cm^2 Angle of internal friction, ø: 7.52

SKW SOIL AND SURVEYS PVT. LTD.

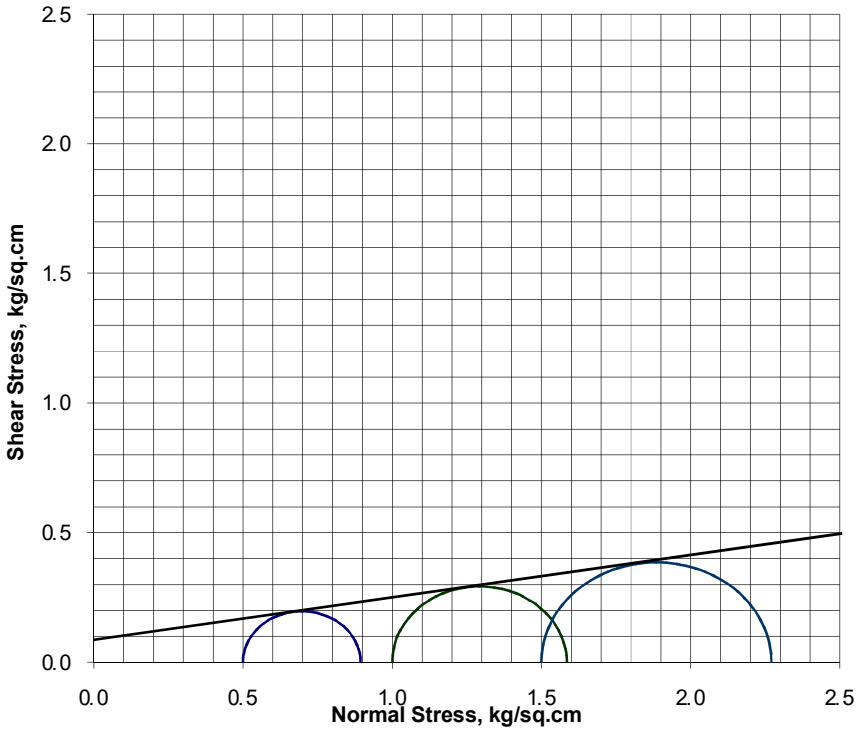
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 4
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.50
Dry Density, γ_d :	1.30	g/cm^3	Condition of Test :	UU
Moisture Content:	38.16	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**4.75**	0.394	0.894	0.00	**4.56**	6.00
2	1.00	**7.13**	0.585	1.585	0.00	**5.32**	7.00
3	1.50	**9.50**	0.771	2.271	0.00	**6.08**	8.00



Cohesion: 0.09 kg/cm^2 Angle of internal friction, ø: 9.09

SKW SOIL AND SURVEYS PVT. LTD.

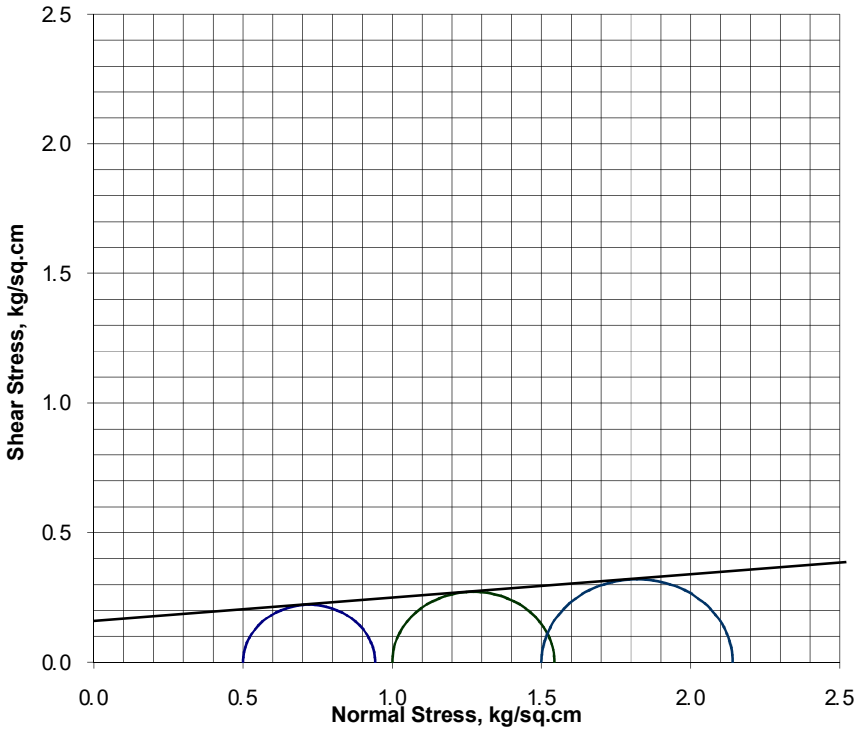
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 5
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.40
Dry Density, γ_d :	1.52	g/cm^3	Condition of Test :	UU
Moisture Content:	26.67	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**5.40**	0.443	0.943	0.00	**5.32**	7.00
2	1.00	**6.70**	0.544	1.544	0.00	**6.08**	8.00
3	1.50	**7.99**	0.641	2.141	0.00	**6.84**	9.00



Cohesion: 0.16 kg/cm^2 Angle of internal friction, ø: 5.03

SKW SOIL AND SURVEYS PVT. LTD.

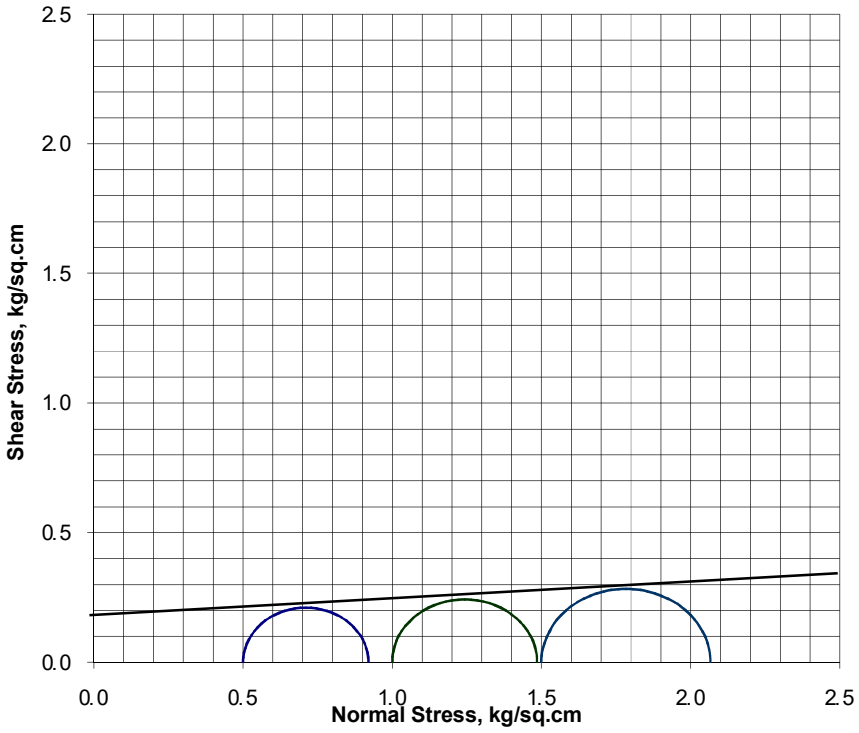
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 6
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.30
Dry Density, γ_d :	1.40	g/cm^3	Condition of Test :	UU
Moisture Content:	31.94	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**5.18**	0.420	0.920	0.00	**6.08**	8.00
2	1.00	**6.05**	0.485	1.485	0.00	**6.84**	9.00
3	1.50	**7.13**	0.566	2.066	0.00	**7.60**	10.00



Cohesion: 0.18 kg/cm^2 Angle of internal friction, ø: 3.43

SKW SOIL AND SURVEYS PVT. LTD.

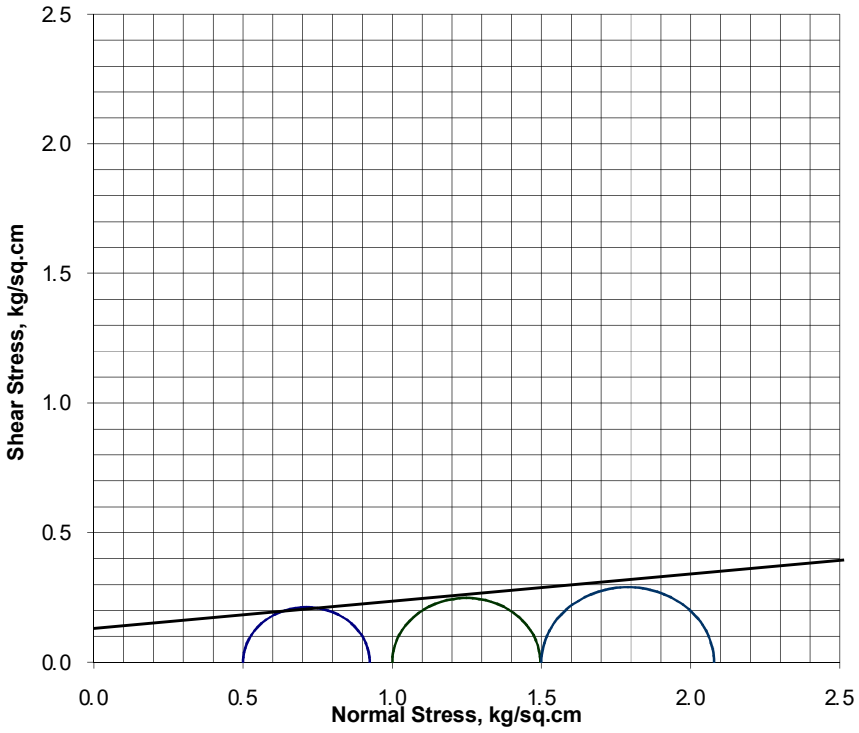
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 7
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.50
Dry Density, γ_d :	1.64	g/cm^3	Condition of Test :	UU
Moisture Content:	21.02	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**5.18**	0.425	0.925	0.00	**5.32**	7.00
2	1.00	**6.05**	0.496	1.496	0.00	**5.32**	7.00
3	1.50	**7.13**	0.578	2.078	0.00	**6.08**	8.00



Cohesion: 0.13 kg/cm^2 Angle of internal friction, ø: 5.71

SKW SOIL AND SURVEYS PVT. LTD.

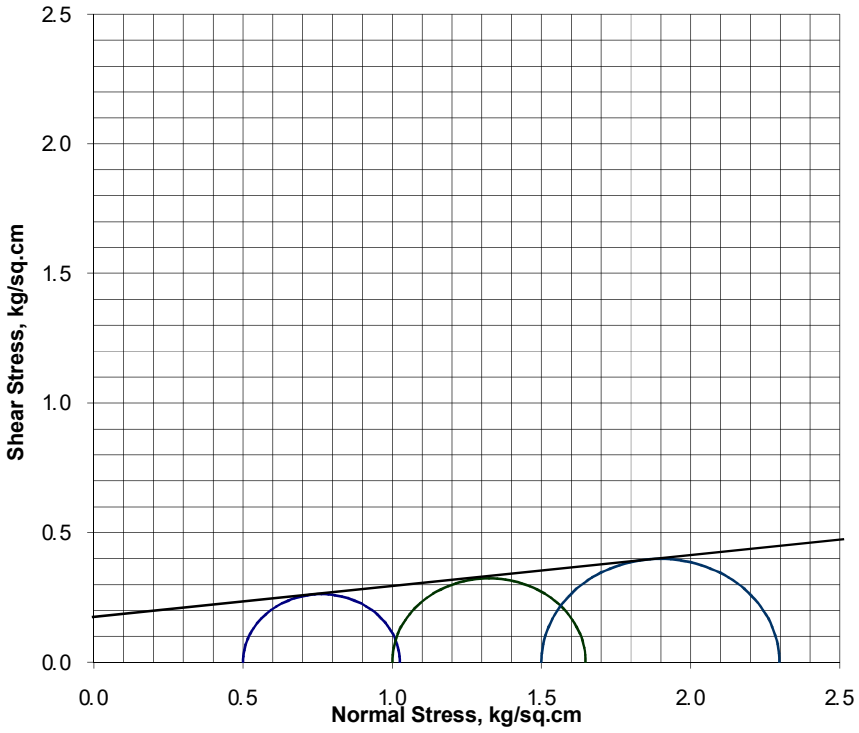
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 8
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.50
Dry Density, γ_d :	1.45	g/cm^3	Condition of Test :	UU
Moisture Content:	30.08	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**6.48**	0.526	1.026	0.00	**6.08**	8.00
2	1.00	**7.99**	0.648	1.648	0.00	**6.08**	8.00
3	1.50	**9.94**	0.798	2.298	0.00	**6.84**	9.00



Cohesion: 0.18 kg/cm^2 Angle of internal friction, ø: 6.62

SKW SOIL AND SURVEYS PVT. LTD.

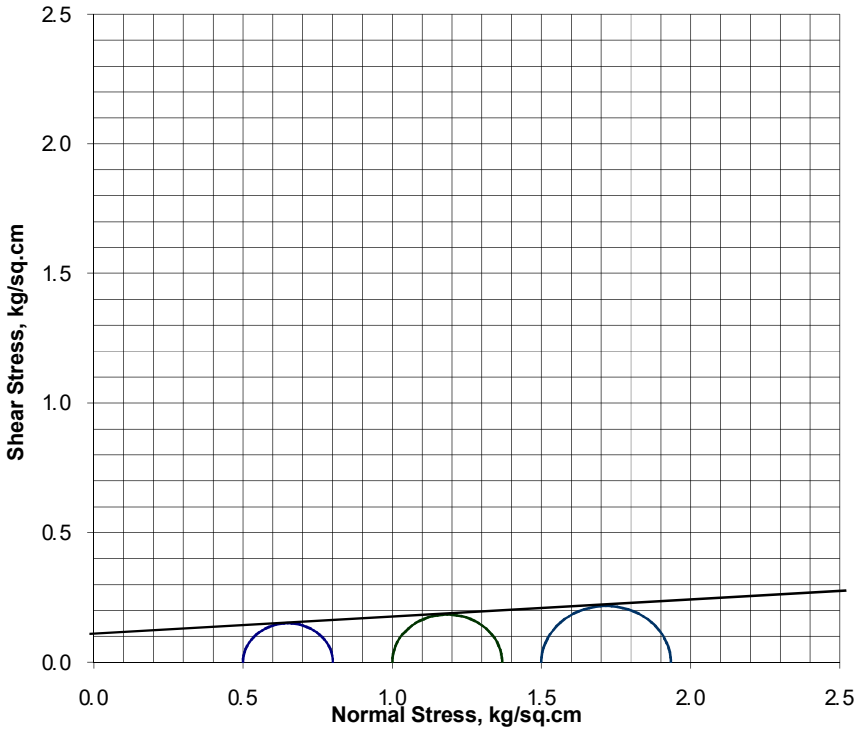
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 9
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.50
Dry Density, γ_d :	1.30	g/cm^3	Condition of Test :	UU
Moisture Content:	38.77	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**3.67**	0.301	0.801	0.00	**5.32**	7.00
2	1.00	**4.54**	0.368	1.368	0.00	**6.08**	8.00
3	1.50	**5.40**	0.433	1.933	0.00	**6.84**	9.00



Cohesion: 0.11 kg/cm^2 Angle of internal friction, ø: 3.66

SKW SOIL AND SURVEYS PVT. LTD.

DIRECT SHEAR TEST

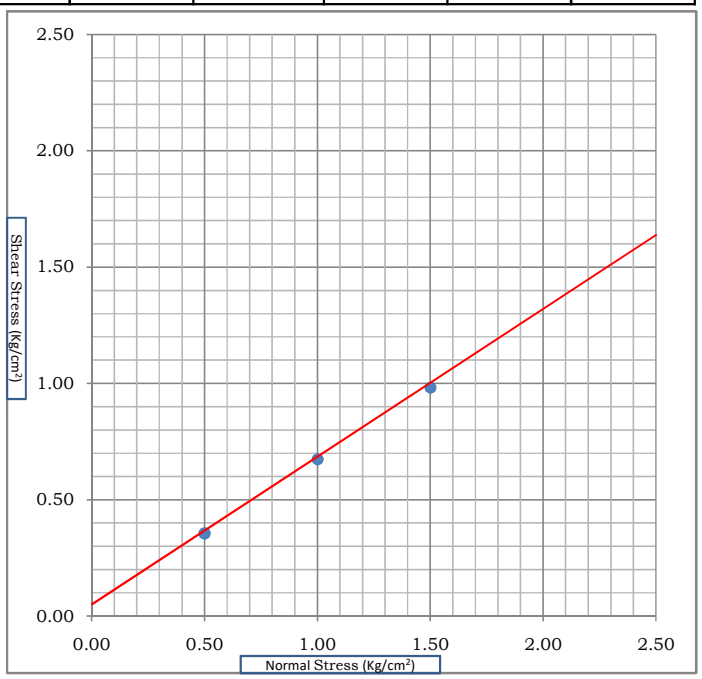
IS - 2720, P-13

Certificate No.: TC-8432

Project : ***Geotechnical Investigation works Supreme Infra Project OMKARESHWER.***

Condition of Test	:	**UU**			
Rate of Strain	:	1.25	mm/min	Bore Hole No. :	**BH - 10**
Size of the Specimen	:	60.0	mm(Square)	Depth of Sample (m)	**0.00 - 0.50**
Height of Specimen	:	25.0	mm	Type of Sample:	UDS 1
Dry Density, γ_d	:	1.79	gm / cm^3		
Moisture Content,	:	16.20	%		

Serial No.	Normal Pressure, σ_v	Shear Force at Failure	Shear Stress at Failure, σ_s	Change in Length , Δ_L	Strain at Failure
	Kg / cm^2	Kg.	Kg / cm^2	mm	%
1	0.50	**10.74**	0.355	**4.80**	8.00
2	1.00	**19.91**	0.674	**5.40**	9.00
3	1.50	**28.30**	0.983	**6.00**	10.00



COHESION, C_u (Kg / cm^2) :- **0.06** **ANGLE OF INTERNAL FRICTION, φ^0 :-** **31.96**

SKW SOIL AND SURVEYS PVT. LTD.

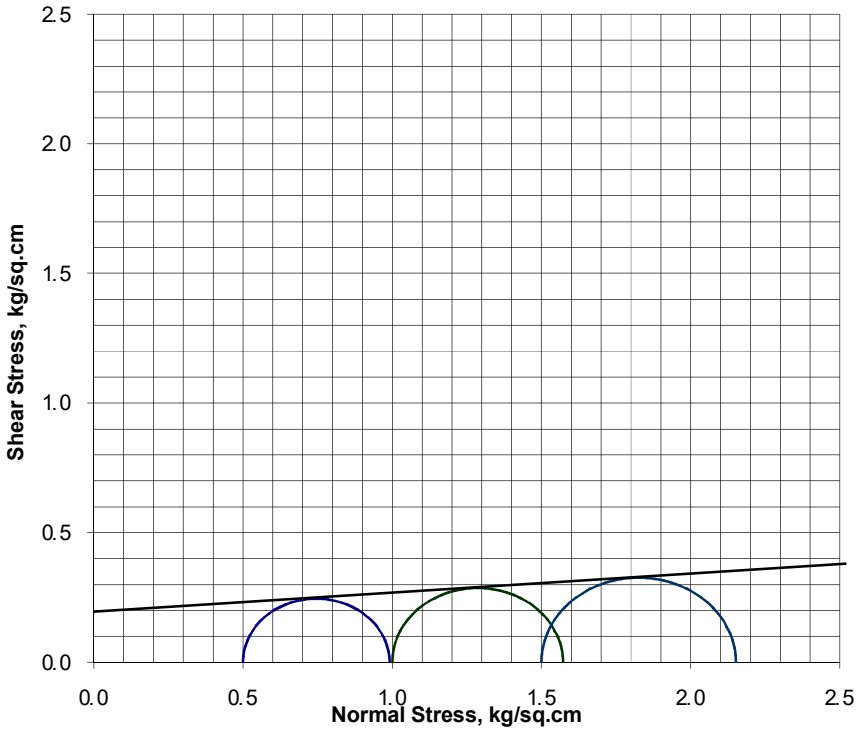
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 11
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.50
Dry Density, γ_d :	1.59	g/cm^3	Condition of Test :	UU
Moisture Content:	23.05	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**6.05**	0.491	0.991	0.00	**6.08**	8.00
2	1.00	**7.13**	0.572	1.572	0.00	**6.84**	9.00
3	1.50	**8.21**	0.652	2.152	0.00	**7.60**	10.00



Cohesion: 0.20 kg/cm^2 Angle of internal friction, ø: 4.12

SKW SOIL AND SURVEYS PVT. LTD.

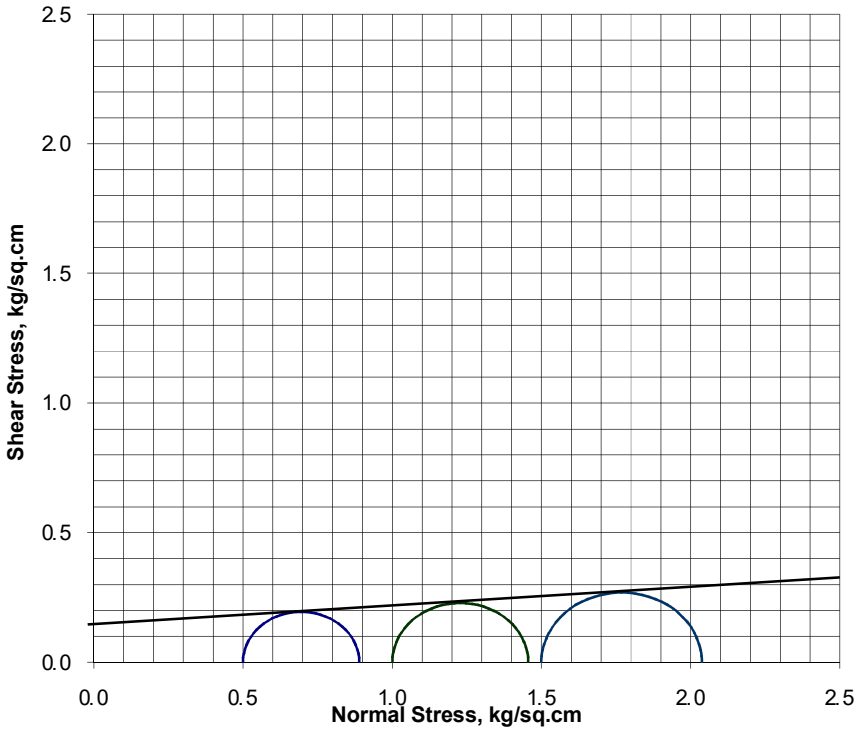
TRIAXIAL COMPRESSION TEST

Certificate No.: TC-8432

Project: **Geotechnical Investigation works Supreme Infra Project OMKARESHWER.**

Rate of Strain :	1.25	mm/min		
Diameter of Specimen :	38.00	mm	Bore Hole No.:	BH - 12
Height of Specimen:	76.00	mm	Depth (m)	0.00-0.40
Dry Density, γ_d :	1.43	g/cm^3	Condition of Test :	UU
Moisture Content:	30.31	%	State of Sample:	UDS 1

Serial No.	Cell Pressure σ_3	Deviatoric Force at Failure	Deviatoric Stress at Failure, σd	Normal Stress at Failure, $\sigma 1$	Pore Pressure at Failure, u	Change in Length at Failure, ΔL	Strain at Failure, ε
	kg/cm^2	kg	kg/cm^2	cm	%	cm^2	%
1	0.50	**4.75**	0.390	0.890	0.00	**5.32**	7.00
2	1.00	**5.62**	0.456	1.456	0.00	**6.08**	8.00
3	1.50	**6.70**	0.538	2.038	0.00	**6.84**	9.00



Cohesion: 0.15 kg/cm^2 Angle of internal friction, ø: 3.89

SKW SOIL AND SURVEYS PVT. LTD.

SHREE SAMARTH GEOTECHNIC

Chemical Test Result

Client	:	DELOITE TOUCHE TOHMATSU INDIA,
Project	:	Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.
Source of Sample	:	Shree Samarth Geotechnic
Number of samples Tested	:	26
Sample Identification*	:	SPT
IS Code Referred	:	IS 2720 Part 2,22,26,32,27,23
Samples Received Date	:	08.06.2021
Samples Condition	:	Acceptable
Period of Test	:	26.12.2020 To 21.01.2021
Report Date	:	10.06.2021 To 16.06.2021

Sr. No.	BH.No.	Sample type	Water Content(%)	Depth	pH	Sulphate SO_3	Sulphate SO_4	Chloride Cl	Organic Matter	Carbonate asCa(%)	Remark
						(%)	(%)	(%)	(%/W)	(%/)	
1	1	SPT	28.34	0.00-0.10	7.6	0.051	0.072	0.006	0.158	<1.0	
2	2	SPT	46.89	1.50-1.95	8.02	0.051	0.077	0.008	0.757	<1.0	
3	2	SPT	39.35	3.00-3.45	7.15	0.072	0.08	0.007	0.523	<1.0	
4	3	SPT	48.49	1.50-1.95	8.5	0.067	0.086	0.005	0.837	<1.0	
5	3	SPT	32.7	5.00-5.45	7.56	0.064	0.061	0.006	0.98	<1.0	
6	4	SPT	45.14	1.50-1.95	8.56	0.06	0.061	0.004	1.212	<1.0	
7	4	SPT	27.34	3.00-3.45	8.95	0.064	0.072	0.006	1.207	<1.0	
8	4	SPT	53.89	5.00-5.45	8.15	0.068	0.082	0.005	0.17	<1.0	
9	5	SPT	37.36	1.50-1.95	7.89	0.065	0.078	0.009	0.232	<1.0	
10	5	SPT	45.2	5.00-5.25	7.84	0.072	0.081	0.009	1.21	<1.0	
11	6	SPT	46.52	1.50-1.62	8.02	0.077	0.076	0.009	0.664	<1.0	
12	6	SPT	47.37	5.00-5.26	7.4	0.08	0.074	0.006	1.182	<1.0	
13	7	SPT	20.82	1.50-1.95	8.1	0.086	0.076	0.007	0.687	<1.0	
14	7	SPT	30.82	3.00-3.08	7.6	0.061	0.074	0.006	0.812	<1.0	
15	7	SPT	41.52	5.00-5.12	7.2	0.061	0.072	0.008	0.716	<1.0	

SHREE SAMARTH GEOTECHNIC

Chemical Test Result

Client : DELOITE TOUCHE TOHMATSU INDIA,
Project : Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.
Source of Sample : Shree Samarth Geotechnic
Number of samples Tested : 26
Sample Identification* : SPT
IS Code Referred : IS 2720 Part 2,22,26,32,27,23
Samples Received Date : 08.06.2021
Samples Condition : Acceptable
Period of Test : 26.12.2020 To 21.01.2021
Report Date : 10.06.2021 To 16.06.2021

Sr. No.	BH.No.	Sample type	Water Content(%)	Depth	pH	Sulphate SO_3	Sulphate SO_4	Chloride Cl	Organic Matter	Carbonate asCa(%)	Remark
						(%)	(%)	(%)	(%/W)	(%)	
16	8	SPT	16.81	1.50-1.95	7.9	0.061	0.074	0.008	1.177	<1.0	
17	8	SPT	46.89	3.00-3.13	7.62	0.063	0.076	0.006	1.05	<1.0	
18	9	SPT	39.35	5.00-5.45	8.12	0.061	0.074	0.005	0.941	<1.0	
19	10	SPT	48.49	1.50-1.95	7.26	0.064	0.077	0.009	0.834	<1.0	
20	10	SPT	32.7	3.00-3.45	7.44	0.067	0.08	0.007	1.759	<1.0	
21	10	SPT	45.14	5.00-5.27	7.89	0.067	0.081	0.009	1.989	<1.0	
22	11	SPT	27.34	2.00-2.45	8.02	0.069	0.083	0.009	1.509	<1.0	
23	11	SPT	53.89	3.50-3.90	7.64	0.073	0.088	0.006	0.834	<1.0	
24	11	SPT	56.48	5.00-5.28	7.81	0.068	0.081	0.005	0.194	<1.0	
25	12	SPT	25.18	1.50-1.73	7.92	0.063	0.076	0.003	1.157	<1.0	
26	12	SPT	16.81	3.00-3.26	7.64	0.054	0.065	0.007	1.109	<1.0	

SHREE SAMARTH GEOTECHNIC

Chemical Test Result

Client	:	DELOITE TOUCHE TOHMATSU INDIA,
Project	:	Geotechnical Investigation Work for Moorings Analysis Work at Omkareshwar Projects.
Source of Sample	:	Shree Samarth Geotechnic
Number of samples Tested	:	12
Sample Identification*	:	Water
IS Code Referred	:	IS 3025 Part 11,34,24,32,18,51
Samples Received Date	:	08.06.2021
Samples Condition	:	Acceptable
Period of Test	:	09.06.2021 To 12.06.2021
Report Date	:	14.06.2021

Sr. No.	BH.No.	Sample type	Depth	pH	Nitrate	Sulphate SO_3	Sulphate SO_4	Chloride Cl	Salinity	Organic Content	Carbonate	Remark
					(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ppt)	(mg/l)	(mg/l)	
1	1	Water	0	7.2	0.43	30.6	37.41	6.72	0.02	40.6	<1.0	
2	2	Water	0	6.9	0.36	32.4	40.66	5.12	0.01	41.2	<1.0	
3	3	Water	0	7.6	0.44	26.4	31.26	6.80	0.02	39.8	<1.0	
4	4	Water	0	7.4	0.31	28.0	32.16	7.62	0.02	37.7	<1.0	
5	5	Water	0	7.2	0.46	36.2	43.66	6.89	0.01	30.8	<1.0	
6	6	Water	0	6.9	0.52	20.0	24.30	7.16	0.01	29.2	<1.0	
7	7	Water	0	7.1	0.28	26.0	30.66	7.11	0.02	30.6	<1.0	
8	8	Water	0	6.8	0.37	36.0	42.61	6.92	0.01	32.7	<1.0	
9	9	Water	0	7.3	0.49	31.6	36.34	7.00	0.02	34.4	<1.0	
10	10	Water	0	6.9	0.31	22.6	26.51	8.21	0.01	30.3	<1.0	
11	11	Water	0	7.4	0.26	31.0	36.88	7.68	0.02	42.9	<1.0	
12	12	Water	0	7.2	0.35	29.0	34.71	8.00	0.01	31.4	<1.0	

PRE-QUALIFICATION REQUIREMENTS

The bidder shall meet any one of the following criteria (Sl No 1 or 2) to qualify for pre-bid tieup.

	Particulars	**Bidder's Confirmation**
1	The bidder shall be a PV module manufacturer with i. 140 MWp/ Annum capacity for 535 Wp or above rated PV modules and ii. an experience of supplying cumulatively 100 MWp of PV modules in last three financial years (FY 19-20, FY 20-21, FY 21-22)	Name of PV module manufacturer, complete address & contact details with email address, website to be provided. Datasheet of the offered model to be submitted. Documentary evidence such as Certificate of Incorporation/ BIS certificate/ Client certificates/ any supporting document to be provided for annual capacity and supply experience
2	The bidder must have essentially executed atleast one FSPV Plant of minimum capacity of 1MW. The bidder for above execution should have designed and supplied the floater BOQ and the anchoring and mooring system too. The plant to be in successful operation for minimum six months from the date of this tender opening. Also, the Bidder to have minimum capacity of manufacturing floater BOQ as per their design to match 140MWp per year considering PV Module supply of 535Wp rating.	Completion certificates from Customer to be submitted for validation of the above experience Bidder to submit quantity details of each type of mould for each of their floater type. And the monthly manufacturing capacity of each floater BOQ to be submitted.

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TECHNICAL SPECIFICATION
FOR
PREBID TIEUP FOR SUPPLY OF SOLAR PHOTOVOLTAIC MODULES

SOLAR PHOTOVOLTAIC (PV) MODULES

Solar photovoltaic (PV) modules consists of solar cells connected in series/ parallel configurations to deliver a standard required power output. The PV cell circuits are sealed in an environmentally protective laminate, and are the fundamental building blocks of PV systems.

1) TECHNICAL REQUIRMENTS:

Sl. No	Item	Remarks
1	PV Module Configuration	Mono crystalline (PERC) photovoltaic module with 72 nos of cells in 12X6 series configuration or 144 nos of cells (Half cut) in 24 x 6 configuration. The module construction and bill of material shall be as per vendor's approved IEC certification. ***Please enclose:*** ***i. Module overall assembly drawing with mounting holes*** ***ii. Data sheet with typical electrical characteristics, I-V curves, temperature coefficients etc.***
2	Power Output	535 Wp or above, in 5 Watt band only. No negative power tolerance will be accepted.
3	System Voltage	Modules shall be suitable for 1500V DC System Voltage application.
4	Efficiency	19% (min) under STC
5	Fill Factor	0.75 (min)
6	Temp coefficient of Power Pmax (%)	-0.40 % / °C or better
7	Operating Conditions	SPV module shall perform satisfactorily in humidity up to 85% with ambient temperatures between -40° C & + 85° C, and shall withstand adverse climatic conditions
8	IEC Certifications	The PV modules supplied shall follow latest IEC or equivalent IS standards as below. 1. IEC 61215-1 (Design Qualification and Type Approval-Part 1) 2. IEC 61215-1-1 (Design Qualification and Type Approval-Part 1-1) 3. IEC 61215-2 (Design Qualification and Type Approval-Part 2) 4. IEC 61730-1 (Safety Qualification – Part 1) 5. IEC 61730-2 (Safety Qualification – Part 2) 6. IEC 62804-1 (Test methods for the detection of PID - Part 1) 7. IEC 61701 (Salt Mist Corrosion testing) 8. IEC 62716 (Ammonia Corrosion testing) Vendors shall use Bill of materials for manufacture of PV modules as per subset of approved CDF of IEC Certificates.

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		All IEC Certificates to be submitted with tender.
8.1	BIS Registration	As per the Solar Photovoltaics, Systems, Devices and Components Goods (Requirements for Compulsory Registration) Order, 2017, Government of India, PV Modules used in the grid connected solar power projects in India shall be registered with BIS and bear the Standard Mark as notified by the Bureau of Indian Standards. Enclose copy of BIS Registration for PV modules
8.2	ALMM Listing	In line with Office Memorandum No. 283/54/2018- Grid Solar ("Approved Models and Manufactures of Solar Photovoltaic Modules Order, 2019), dated 2nd January 2019 and subsequent amendments thereto issued by MNRE, Govt of India, the bidder shall comply with the relevant clause(s) on supply of PV modules.
9	Module Safety Class	Safety Class - II
10	BILL OF MATERIALS	
10.1	Solar cells	**Crystalline Technology :** Pl. indicate **Cell Source :** **Size of Cells :** **Half cell or full cell configuration:** **Cell efficiency :** **No. of busbars** **Enclose a copy of Solar cell data sheet with electrical parameters.**
10.2	EVA	Fast cure type, UV resistant, Gel content > 70 %.
10.3	Glass	High transmission (> 90 %), low iron, toughened glass with minimum thickness of 3.2 mm in case of glass- backsheet and 2.5 mm in case of glass- glass and bending less than 0.3%.
10.4	Back Sheet	The back sheet used in the crystalline silicon based modules shall be of 3 layered structure. The thickness of back sheet should be of minimum 300 microns with water vapour transmission rate less than 2.0 g/ m^2/day (38°C at 90% RH). The Back sheet can be fluoro polymer based or of any other well proven technology. The backsheet shall have globally benchmarked durability properties on Moisture barrier, Tensile Strength (Machine Direction & Transverse Direction), Elongation retention and UV stability and shall be able to withstand system voltage of 1500 V.
10.5	PV Module Frame	Corrosion resistant, anodized Aluminum. The anodizing thickness shall be 15 microns or better.

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10.6	Junction box	IP67 grade with 3 nos. of bypass diodes, UV resistant & weather-proof **Junction box shall have two 4 sq mm UV resistant cables of minimum 1.2 metre length and plug-in connectors (male and female). JB shall be in compliance with IEC 60670 and class II insulation.** **Cables shall be of solar grade and shall conform to specification EN 50618.**
10.7	Adhesive for framing, junction-box fixing and potting	As per manufacturer's IEC test report
10.8	RFID	Each PV module deployed must use a Radio Frequency identification (RFID) tag for traceability. RFID shall either be placed inside the laminate or behind name plate sticker or behind bar code label pasted on the back glass of PV module and must be able to withstand harsh environmental conditions during the module lifetime. RFID tag shall contain the following information: a. Name of module manufacturer with country of origin b. Month & year of manufacture of modules c. Name of cell manufacturer with country of origin d. Month & year of manufacture of cells e. IV curve f. Wattage, I_{max}, V_{max}, V_{oc}, I_{sc}, & fill factor g. Module model number h. Unique serial number i. Date of obtaining IEC qualification certificates j. Name of test lab issuing IEC certificates k. Other relevant information etc. on traceability of solar cells and module as per IOS 9000 series
10.9	Nameplate	Each module shall be provided with a name plate label (sticker) containing the following information: a. Name of module manufacturer b. Module model number c. Serial number d. Polarity Terminal Leads e. Safety Class f. Application Class g. Overall Dimension (W x L x D) h. Weight in Kg i. P_{max}, V_{oc}, I_{sc}, I_{max} & V_{max}

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		j. System Voltage k. Relevant standards and certifying lab name l. Date of obtaining IEC qualification certificates m. Warnings, if any n. Other relevant information, etc Nameplate shall be clearly visible and shall not be hidden by equipment wiring. It shall be durable for the entire life of panel.
10.10	BOM as per CDF of IEC Certificate	Solar cells and module materials shall be used as per approved CDF as per IEC Certificate. **Enclose copy of approved CDF as per IEC Certificate.**
10.11	RFID Reader	One number RFID reader (gun type) has to be supplied free of cost by the bidder which has to be compatible to read the module I-V data from the RFID Tag & download the data to Computer. All necessary associated Software, Cables and accessories are to be provided free of cost along with the RFID reader.
10.12	.PAN File	Third Party verified .PAN file for each module wattage offered shall be provided for carrying out PVSYS calculations at our end.
10.13	Mounting hole Pitch	**Pl. provide mounting hole pitch details.** **Horizontal :** **Vertical :** **Mounting hole size :**
10.14	Earthing holes	Earthing holes to be provided on both the shorter arms/ longer arms of PV module frames.
10.15	I-V curves and temperature coefficiencts	The bidder shall provide the sample solar PV module electrical characteristics including current-voltage (I-V) performance curves and temperature coefficients of power, voltage and current. **Enclose Sample I-V performance curve of for highest wattage of modules offered.** **Temperature coefficient of Power (Pmax) :** **Temperature coefficient of Voltage (Voc) :** **Temperature coefficient of Current (Isc) :**

2) QUALITY ASSURANCE

Module Quality Plan, Data Sheet and GTP shall be subject to customer's approval. Each lot of modules shall be subject to Pre Shipment Inspection (PSI) by BHEL and BHEL customer or any third party.

Quality plan will include the following:

I. Incoming Quality Checks on bought out item
II. In-process Quality Checks
III. Sample tests on final product by the customer

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3) WARRANTY

Product Warranty shall be for 10 years and Performance Warranty shall be for 25 years.

Solar PV modules used in solar power plants/ systems must be warranted for the product Workmanship for a period of minimum 10 years. Further, they shall also be warranted for their output peak watt capacity, for which module degradation should not be more than 0.75% / year till the end of 25 years from the completion of the trial run. Modules that do not meet the above criteria shall be replaced free of cost at BHEL's/customer's sole discretion.

4) INSURANCE or BANK GUARANTEE FOR POWER OUTPUT WARRANTY

The PV module power output warranty as per the technical specification shall be insured and backed up through an insurance policy by a reputed insurance company which will cover against the PV module power output warranty in case of insolvency or bankruptcy of the PV module manufacturer. The Bidder shall submit a suitable insurance from Third Party.

The Successful Bidder who is not able to provide insurance of PV modules as above, shall submit a Bank Guarantee for 10% of the contract value through BHEL consortium bank and shall be valid for a period of Ten (10) years and 90 days. The minimum validity of the Bank guarantee shall be Two (2) years and shall be renewed by the bidder of their own subsequently every Two (2) years prior to thirty (30) days of its expiry. In case the PV module fails to provide power output as per its performance warranty, and if the bidder fails to rectify, replace or repair the PV module, then BHEL shall carry out the necessary rectification, repair or replacement at its own discretion at the risk and cost of the supplier. The cost of such rectification, repair or replacement shall be encashed from the Bank Guarantee against PV Module Warranty. The same shall be replenished by the supplier within thirty (30) days, failing which the entire Bank Guarantee amount shall be encashed and all pending payment shall be withheld by BHEL till such amount is replenished by the supplier. In another instance, if the supplier becomes bankrupt or insolvent, then BHEL shall immediately encash the entire amount of the Bank Guarantee against PV Module Warranty.

5) PACKING & IDENTIFICATION OF PV MODULE

The modules shall be packed in seaworthy carton boxes made from triple-strength corrugated cardboard and resting on a wooden or plywood base. The PV modules packed in a carton box shall be of same power rating band only (535 Wp/ 540 Wp…). Carton box and Pallets shall be adequately designed to prevent damage or deterioration during transportation to site in remote road conditions, handling and storage in site till the time of its installation. The carton box should display the manufacturer's name, number of modules, type, serial numbers, module wattage etc. Modules found damaged at the time of opening of the cartons in the project site shall be replaced free of cost by the module manufacturer.

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6) GENERAL CONDITIONS

a) PV Modules shall be manufactured at the vendor's works only.

b. Manufacturing clearance shall be given only after approval of Data Sheet, Bill of Material, manufacturing quality plan, Pre-Shipment inspection plan by BHEL's customer.

7) ENCLOSURES :

Sl. No.	Document
1.	Documentary proof for PV module manufacturing capacity and supply experience
2.	Signed copy of BHEL Specification SPV-4-02-00025 Rev 01 for confirming to supply as per BHEL Specification.
3.	BIS certificate for offered model and manufacturer
4.	IEC 61215-1, IEC 61215-1-1, IEC 61215-2 , IEC 61730-1 & 2, IEC61701, IEC 62716 and IEC 62804 test certificates.
5.	Approved CDF (Bill of Materials) of PV modules as per IEC certificates.
6.	Over all PV module assembly drawing indicating mounting hole pitch & data sheet for PV modules.
7.	Al. frame Cross Section drawing
8.	Third party verified .PAN files for each wattage band of PV modules
9.	Data sheet for Solar cells used for manufacturing PV modules.
10.	Bill of Material for PV Modules that shall be used for this contract
11.	PV module installation and O&M manual
12.	Hard copy of above documents shall be enclosed along with the technical bid. Soft copy of all above documents and IEC test reports to be sent by e-mail to the email id as mentioned in tender documents.

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8) CONFIRMATION BY THE BIDDER :

Sl. No.	Item	Reply/ Acceptance by the bidder
1.	PV Module model numbers offered	
2.	Crystalline Technology of the offered model	
3.	Dimension of the PV modules offered	
4.	Output power bands of the models offered	
5.	PV Modules suitable for 1500V System Voltage application	
6.	Availability of IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1 & 2 , IEC61701, 62716 and IEC 62804 test certificates and IEC Test reports with CDF.	
7.	Junction box cable length : 1.2 Meters minimum	
8.	RFID Tag inside or outside the laminate	
9.	Supply of 1 no. of hand held RFID reader with accessories	
10.	Adherence to Manufacturing Quality Plan and Pre-Shipment Inspection	
11.	Bill of materials as per subset of the CDF of the IEC Certificates	
12.	Submission of Bank Guarantee for Power Performance warranty of PV modules	
13.	ALMM enlistment status of offered model and manufacturer	

9) COMPLIANCE

Sl. No.	Particulars	Bidder's Confirmation
1.	**Confirmation to BHEL Specification** **SPV-4-02-00025 Rev 01**	***Yes / No*** *Please indicate deviations, if any.*

_____

Signature of Tenderer with stamp

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WATER SAMPLE TESTING REPORTS

Reports for

- **pH Measurements**
- **Total Dissolved Solids**
- **Calcium**
- **Nitrate**
- **Chloride Content**
- **Sulphate, as SO4**

Reports for

- **Total Suspended Solids**
- **Suspended Sediments**
- **Organic Matter**
- **Salinity**
- **Sulphate, as SO3**

Reports for

- **pH Measurements**
- **Total Dissolved Solids**
- **Calcium**
- **Nitrate**
- **Chloride Content**
- **Sulphate, as SO4**

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01262 A ULR - TC682021000015453F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS01_A
Sample Depth (Meter): 0.5
Latitude: 22°13'30.6628"N
Longitude: 076°09'42.2033"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	6.84
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	168.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	8.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.6

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01263 A ULR - TC682021000015454F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS01_B
Sample Depth (Meter): 6.8
Latitude: 22°13'30.6628"N
Longitude: 076°09'42.2033"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.09
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	180.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01264 A ULR - TC682021000015455F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS01_C
Sample Depth (Meter): 13.1
Latitude: 22°13'30.6628"N
Longitude: 076°09'42.2033"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.29
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	183.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

Authorised by

Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01265 A ULR - TC682021000015456F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS02_A
Sample Depth (Meter): 0.5
Latitude: 22°13'37.6668"N
Longitude: 076°09'58.9761"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.41
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.7

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01266 A ULR - TC682021000015457F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS02_B
Sample Depth (Meter): 8.8
Latitude: 22°13'37.6668"N
Longitude: 076°09'58.9761"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.42
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	184.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01267 A ULR - TC682021000015458F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS02_C
Sample Depth (Meter): 17.1
Latitude: 22°13'37.6668"N
Longitude: 076°09'58.9761"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.59
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	174.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01268 A ULR - TC682021000015459F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS03_A
Sample Depth (Meter): 0.5
Latitude: 22°13'29.4322"N
Longitude: 076°10'22.2925"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.68
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	182.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01269 A ULR - TC682021000015460F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS03_B
Sample Depth (Meter): 6.5
Latitude: 22°13'29.4322"N
Longitude: 076°10'22.2925"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.76
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.5

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Reference Number : EQNX:001:LAB: W:21:06:01270 A ULR - TC682021000015461F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS03_C
Sample Depth (Meter): 12.5
Latitude: 22°13'29.4322"N
Longitude: 076°10'22.2925"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.33
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	170.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.8
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.1
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.6

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Reference Number : EQNX:001:LAB: W:21:06:01271 A ULR - TC682021000015462F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS04_A
Sample Depth (Meter): 0.5
Latitude: 22° 13'33.1439"N
Longitude: 076° 10'35.3412"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.81
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	187.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	4.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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Reference Number : EQNX:001:LAB: W:21:06:01272 A ULR - TC682021000015463F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS04_B
Sample Depth (Meter): 8.6
Latitude: 22° 13'33.1439"N
Longitude: 076° 10'35.3412"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.85
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	187.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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Reference Number : EQNX:001:LAB: W:21:06:01273 A ULR - TC682021000015464F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS04_C
Sample Depth (Meter): 16.7
Latitude: 22° 13'33.1439"N
Longitude: 076° 10'35.3412"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.45
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.5

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Reference Number : EQNX:001:LAB: W:21:06:01274 A ULR - TC682021000015465F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS05_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0795"N
Longitude: 076°10'17.9752"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.88
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Reference Number : EQNX:001:LAB: W:21:06:01275 A ULR - TC682021000015466F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS05_B
Sample Depth (Meter): 4.6
Latitude: 22°13'17.0795"N
Longitude: 076°10'17.9752"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.91
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	187.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01276 A ULR - TC682021000015467F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS05_C
Sample Depth (Meter): 8.7
Latitude: 22°13'17.0795"N
Longitude: 076°10'17.9752"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.62
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01277 A ULR - TC682021000015468F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS06_A
Sample Depth (Meter): 0.5
Latitude: 22°13'14.2027"N
Longitude: 076°10'34.6276"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.95
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01278 A ULR - TC682021000015469F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS06_B
Sample Depth (Meter): 10.4
Latitude: 22°13'14.2027"N
Longitude: 076°10'34.6276"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.97
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01279 A ULR - TC682021000015470F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS06_C
Sample Depth (Meter): 20.3
Latitude: 22° 13'14.2027"N
Longitude: 076° 10'34.6276"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.60
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.3
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01280 A ULR - TC682021000015471F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS07_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0824"N
Longitude: 076°10'52.3079"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.93
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	198.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01281 A ULR - TC682021000015472F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS07_B
Sample Depth (Meter): 13.6
Latitude: 22°13'17.0824"N
Longitude: 076°10'52.3079"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.91
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01282 A ULR - TC682021000015473F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS07_C
Sample Depth (Meter): 26.7
Latitude: 22°13'17.0824"N
Longitude: 076°10'52.3079"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.56
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.4

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Reference Number : EQNX:001:LAB: W:21:06:01283 A ULR - TC682021000015474F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS08_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0839"N
Longitude: 076°11'09.9883"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.81
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	187.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01284 A ULR - TC682021000015475F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS08_B
Sample Depth (Meter): 7.4
Latitude: 22°13'17.0839"N
Longitude: 076°11'09.9883"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.86
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.900

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Reference Number : EQNX:001:LAB: W:21:06:01285 A ULR - TC682021000015476F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS08_C
Sample Depth (Meter): 14.3
Latitude: 22°13'17.0839"N
Longitude: 076°11'09.9883"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.90
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	184.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.5

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Reference Number : EQNX:001:LAB: W:21:06:01286 A ULR - TC682021000015477F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS09_A
Sample Depth (Meter): 0.5
Latitude: 22°13'00.4560"N
Longitude: 076°10'52.8184"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.75
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01287 A ULR - TC682021000015478F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS09_B
Sample Depth (Meter): 13
Latitude: 22°13'00.4560"N
Longitude: 076°10'52.8184"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	6.72
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	180.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Reference Number : EQNX:001:LAB: W:21:06:01288 A ULR - TC682021000015479F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS09_C
Sample Depth (Meter): 25.5
Latitude: 22° 13'00.4560"N
Longitude: 076° 10'52.8184"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	6.55
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01289 A ULR - TC682021000015480F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS10_A
Sample Depth (Meter): 0.5
Latitude: 22°13'01.0984"N
Longitude: 076°11'10.2799"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	6.70
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01290 A ULR - TC682021000015481F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS10_B
Sample Depth (Meter): 5.4
Latitude: 22°13'01.0984"N
Longitude: 076°11'10.2799"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.55
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Reference Number : EQNX:001:LAB: W:21:06:01291 A ULR - TC682021000015482F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS10_C
Sample Depth (Meter): 10.3
Latitude: 22°13'01.0984"N
Longitude: 076°11'10.2799"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	6.99
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01292 A ULR - TC682021000015483F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS11_A
Sample Depth (Meter): 0.5
Latitude: 22°12'44.5664"N
Longitude: 076°11'10.1853"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.08
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	25.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01293 A ULR - TC682021000015484F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS11_B
Sample Depth (Meter): 8.3
Latitude: 22°12'44.5664"N
Longitude: 076°11'10.1853"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.25
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01294 A ULR - TC682021000015485F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS11_C
Sample Depth (Meter): 16.1
Latitude: 22°12'44.5664"N
Longitude: 076°11'10.1853"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.30
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01295 A ULR - TC682021000015486F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS12_A
Sample Depth (Meter): 0.5
Latitude: 22°12'44.5679"N
Longitude: 076°11'28.1740"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.32
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01296 A ULR - TC682021000015487F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS12_B
Sample Depth (Meter): 5.9
Latitude: 22°12'44.5679"N
Longitude: 076°11'28.1740"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.60
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01297 A ULR - TC682021000015488F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS12_C
Sample Depth (Meter): 11.3
Latitude: 22°12'44.5679"N
Longitude: 076°11'28.1740"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.34
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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Reference Number : EQNX:001:LAB: W:21:06:01298 A ULR - TC682021000015489F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS13_A
Sample Depth (Meter): 0.5
Latitude: 22°12'30.2485"N
Longitude: 076°11'12.0282"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.43
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Reference Number : EQNX:001:LAB: W:21:06:01299 A ULR - TC682021000015490F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS13_B
Sample Depth (Meter): 3.4
Latitude: 22°12'30.2485"N
Longitude: 076°11'12.0282"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.66
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01300 A ULR - TC682021000015491F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS13_C
Sample Depth (Meter): 6.3
Latitude: 22°12'30.2485"N
Longitude: 076°11'12.0282"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.43
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	182.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.1
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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Reference Number : EQNX:001:LAB: W:21:06:01301 A ULR - TC682021000015492F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS14_A
Sample Depth (Meter): 0.5
Latitude: 22°12'28.7614"N
Longitude: 076°11'27.7536"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.48
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.2

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Reference Number : EQNX:001:LAB: W:21:06:01302 A ULR - TC682021000015493F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS14_B
Sample Depth (Meter): 7.7
Latitude: 22°12'28.7614"N
Longitude: 076°11'27.7536"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.54
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	180.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.2

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Reference Number : EQNX:001:LAB: W:21:06:01303 A ULR - TC682021000015494F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS14_C
Sample Depth (Meter): 14.9
Latitude: 22°12'28.7614"N
Longitude: 076°11'27.7536"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.62
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	182.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01304 A ULR - TC682021000015495F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS15_A
Sample Depth (Meter): 0.5
Latitude: 22°12'28.3107"N
Longitude: 076°11'45.0492"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.65
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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Reference Number : EQNX:001:LAB: W:21:06:01305 A ULR - TC682021000015496F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS15_B
Sample Depth (Meter): 2.9
Latitude: 22°12'28.3107"N
Longitude: 076°11'45.0492"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.72
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01306 A ULR - TC682021000015497F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS15_C
Sample Depth (Meter): 5.3
Latitude: 22°12'28.3107"N
Longitude: 076°11'45.0492"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.70
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	183.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01307 A ULR - TC682021000015498F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS16_A
Sample Depth (Meter): 0.5
Latitude: 22°12'14.1173"N
Longitude: 076°11'27.5734"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.75
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	185.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	25.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01308 A ULR - TC682021000015499F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS16_B
Sample Depth (Meter): 6.7
Latitude: 22°12'14.1173"N
Longitude: 076°11'27.5734"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.79
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01309 A ULR - TC682021000015500F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS16_C
Sample Depth (Meter): 12.9
Latitude: 22°12'14.1173"N
Longitude: 076°11'27.5734"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.78
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	180.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01310 A ULR - TC682021000015501F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS17_A
Sample Depth (Meter): 0.5
Latitude: 22°12'12.0520"N
Longitude: 076°11'45.6916"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.79
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01311 A ULR - TC682021000015502F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS17_B
Sample Depth (Meter): 4.9
Latitude: 22°12'12.0520"N
Longitude: 076°11'45.6916"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.78
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Reference Number : EQNX:001:LAB: W:21:06:01312 A ULR - TC682021000015503F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS17_C
Sample Depth (Meter): 9.3
Latitude: 22°12'12.0520"N
Longitude: 076°11'45.6916"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.78
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	180.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.9
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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Reference Number : EQNX:001:LAB: W:21:06:01313 A ULR - TC682021000015504F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS18_A
Sample Depth (Meter): 0.5
Latitude: 22°12'12.7002"N
Longitude: 076°12'02.6797"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.31
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Reference Number : EQNX:001:LAB: W:21:06:01314 A ULR - TC682021000015505F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS18_B
Sample Depth (Meter): 4.8
Latitude: 22°12'12.7002"N
Longitude: 076°12'02.6797"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.38
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.2

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Reference Number : EQNX:001:LAB: W:21:06:01315 A ULR - TC682021000015506F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS18_C
Sample Depth (Meter): 9.1
Latitude: 22°12'12.7002"N
Longitude: 076°12'02.6797"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.54
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	184.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.9
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.6

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Reference Number : EQNX:001:LAB: W:21:06:01316 A ULR - TC682021000015507F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS19_A
Sample Depth (Meter): 0.5
Latitude: 22°12'11.5865"N
Longitude: 076°12'20.1400"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.54
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01317 A ULR - TC682021000015508F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS19_B
Sample Depth (Meter): 2.3
Latitude: 22°12'11.5865"N
Longitude: 076°12'20.1400"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.54
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.7

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01318 A ULR - TC682021000015509F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS19_C
Sample Depth (Meter): 4.1
Latitude: 22°12'11.5865"N
Longitude: 076°12'20.1400"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.58
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	27.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01319 A ULR - TC682021000015510F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS20_A
Sample Depth (Meter): 0.5
Latitude: 22°11'55.7948"N
Longitude: 076°12'02.7809"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.65
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01320 A ULR - TC682021000015511F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS20_B
Sample Depth (Meter): 5.1
Latitude: 22°11'55.7948"N
Longitude: 076°12'02.7809"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.71
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01321 A ULR - TC682021000015512F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS20_C
Sample Depth (Meter): 9.7
Latitude: 22°11'55.7948"N
Longitude: 076°12'02.7809"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.72
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01322 A ULR - TC682021000015513F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS21_A
Sample Depth (Meter): 0.5
Latitude: 22°11'56.1677"N
Longitude: 076°12'20.1441"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	6.99
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	182.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01323 A ULR - TC682021000015514F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS21_B
Sample Depth (Meter): 11.3
Latitude: 22°11'56.1677"N
Longitude: 076°12'20.1441"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.41
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01324 A ULR - TC682021000015515F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS21_C
Sample Depth (Meter): 22.1
Latitude: 22°11'56.1677"N
Longitude: 076°12'20.1441"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.76
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	27.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01325 A ULR - TC682021000015516F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS22_A
Sample Depth (Meter): 0.5
Latitude: 22°11'39.8922"N
Longitude: 076°12'20.1484"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.09
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.1
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.7

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Reference Number : EQNX:001:LAB: W:21:06:01326 A ULR - TC682021000015517F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS22_B
Sample Depth (Meter): 0.9
Latitude: 22°11'39.8922"N
Longitude: 076°12'20.1484"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.59
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	197.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.8

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Reference Number : EQNX:001:LAB: W:21:06:01327 A ULR - TC682021000015518F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS22_C
Sample Depth (Meter): 1.3
Latitude: 22°11'39.8922"N
Longitude: 076°12'20.1484"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.18
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	6.4
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	28.1
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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Reference Number : EQNX:001:LAB: W:21:06:01328 A ULR - TC682021000015519F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS23_A
Sample Depth (Meter): 0.5
Latitude: 22°11'39.8921"N
Longitude: 076°12'37.6073"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.30
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.3
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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Reference Number : EQNX:001:LAB: W:21:06:01329 A ULR - TC682021000015520F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS23_B
Sample Depth (Meter): 2.9
Latitude: 22°11'39.8921"N
Longitude: 076°12'37.6073"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.53
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01330 A ULR - TC682021000015521F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS23_C
Sample Depth (Meter): 5.3
Latitude: 22°11'39.8921"N
Longitude: 076°12'37.6073"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.33
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.1
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01331 A ULR - TC682021000015522F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS24_A
Sample Depth (Meter): 0.5
Latitude: 22°11'38.6071"N
Longitude: 076°12'55.0664"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.84
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01332 A ULR - TC682021000015523F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS24_B
Sample Depth (Meter): 7.3
Latitude: 22°11'38.6071"N
Longitude: 076°12'55.0664"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.60
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01333 A ULR - TC682021000015524F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS24_C
Sample Depth (Meter): 14.1
Latitude: 22°11'38.6071"N
Longitude: 076°12'55.0664"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.62
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01334 A ULR - TC682021000015525F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS25_A
Sample Depth (Meter): 0.5
Latitude: 22°11'22.9741"N
Longitude: 076°12'37.6112"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.65
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01335 A ULR - TC682021000015526F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS25_B
Sample Depth (Meter): 9.6
Latitude: 22°11'22.9741"N
Longitude: 076°12'37.6112"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.73
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01336 A ULR - TC682021000015527F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS25_C
Sample Depth (Meter): 18.7
Latitude: 22°11'22.9741"N
Longitude: 076°12'37.6112"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.68
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01337 A ULR - TC682021000015528F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS26_A
Sample Depth (Meter): 0.5
Latitude: 22°11'22.7600"N
Longitude: 076°12'20.1529"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.86
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	187.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01338 A ULR - TC682021000015529F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS26_B
Sample Depth (Meter): 3.2
Latitude: 22°11'22.7600"N
Longitude: 076°12'20.1529"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.82
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.3
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01339 A ULR - TC682021000015530F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS26_C
Sample Depth (Meter): 5.9
Latitude: 22°11'22.7600"N
Longitude: 076°12'20.1529"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.69
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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Reference Number : EQNX:001:LAB: W:21:06:01340 A ULR - TC682021000015531F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS27_A
Sample Depth (Meter): 0.5
Latitude: 22°11'23.1883"N
Longitude: 076°12'55.0694"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.81
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	182.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Reference Number : EQNX:001:LAB: W:21:06:01341 A ULR - TC682021000015532F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS27_B
Sample Depth (Meter): 4.1
Latitude: 22°11'23.1883"N
Longitude: 076°12'55.0694"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.73
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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Reference Number : EQNX:001:LAB: W:21:06:01342 A ULR - TC682021000015533F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS27_C
Sample Depth (Meter): 7.7
Latitude: 22°11'23.1883"N
Longitude: 076°12'55.0694"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.75
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Reference Number : EQNX:001:LAB: W:21:06:01343 A ULR - TC682021000015534F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS28_A
Sample Depth (Meter): 0.5
Latitude: 22°11'22.9741"N
Longitude: 076°13'12.5277"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.80
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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Reference Number : EQNX:001:LAB: W:21:06:01344 A ULR - TC682021000015535F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS28_B
Sample Depth (Meter): 4.5
Latitude: 22°11'22.9741"N
Longitude: 076°13'12.5277"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.77
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01345 A ULR - TC682021000015536F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS28_C
Sample Depth (Meter): 8.5
Latitude: 22°11'22.9741"N
Longitude: 076°13'12.5277"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.74
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01346 A ULR - TC682021000015537F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS29_A
Sample Depth (Meter): 0.5
Latitude: 22°11'23.2856"N
Longitude: 076°13'30.1975"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.84
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01347 A ULR - TC682021000015538F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS29_B
Sample Depth (Meter): 7.45
Latitude: 22°11'23.2856"N
Longitude: 076°13'30.1975"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.73
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01348 A ULR - TC682021000015539F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS29_C
Sample Depth (Meter): 14.4
Latitude: 22°11'23.2856"N
Longitude: 076°13'30.1975"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.72
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01349 A ULR - TC682021000015540F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS30_A
Sample Depth (Meter): 0.5
Latitude: 22°11'06.8699"N
Longitude: 076°12'37.6149"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.71
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	188.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01350 A ULR - TC682021000015541F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS30_B
Sample Depth (Meter): 6.35
Latitude: 22°11'06.8699"N
Longitude: 076°12'37.6149"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.68
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	5.3
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01351 A ULR - TC682021000015542F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS30_C
Sample Depth (Meter): 12.2
Latitude: 22°11'06.8699"N
Longitude: 076°12'37.6149"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.66
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	184.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01352 A ULR - TC682021000015543F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS31_A
Sample Depth (Meter): 0.5
Latitude: 22°11'07.0236"N
Longitude: 076°12'55.2908"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.67
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Reference Number : EQNX:001:LAB: W:21:06:01353 A ULR - TC682021000015544F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS31_B
Sample Depth (Meter): 5.4
Latitude: 22°11'07.0236"N
Longitude: 076°12'55.2908"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.70
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	28.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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Reference Number : EQNX:001:LAB: W:21:06:01354 A ULR - TC682021000015545F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS31_C
Sample Depth (Meter): 10.3
Latitude: 22°11'07.0236"N
Longitude: 076°12'55.2908"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.66
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.1

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Reference Number : EQNX:001:LAB: W:21:06:01355 A ULR - TC682021000015546F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS32_A
Sample Depth (Meter): 0.5
Latitude: 22°11'07.2982"N
Longitude: 076°13'12.5303"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.62
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	9.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.5

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Reference Number : EQNX:001:LAB: W:21:06:01356 A ULR - TC682021000015547F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS32_B
Sample Depth (Meter): 3.2
Latitude: 22°11'07.2982"N
Longitude: 076°13'12.5303"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.73
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	181.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	11.9
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

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Reference Number : EQNX:001:LAB: W:21:06:01357 A ULR - TC682021000015548F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS32_C
Sample Depth (Meter): 5.9
Latitude: 22°11'07.2982"N
Longitude: 076°13'12.5303"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.17
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	184.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	9.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Reference Number : EQNX:001:LAB: W:21:06:01358 A ULR - TC682021000015549F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS33_A
Sample Depth (Meter): 0.5
Latitude: 2° 11'07.0269"N
Longitude: 076° 13'30.1975"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.74
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	184.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	14.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01359 A ULR - TC682021000015550F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS33_B
Sample Depth (Meter): 4.95
Latitude: 2° 11'07.0269"N
Longitude: 076° 13'30.1975"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.02
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	185.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01360 A ULR - TC682021000015551F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS33_C
Sample Depth (Meter): 9.4
Latitude: 2° 11'07.0269"N
Longitude: 076° 13'30.1975"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.78
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01361 A ULR - TC682021000015552F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS34_A
Sample Depth (Meter): 0.5
Latitude: 22°10'51.2369"N
Longitude: 076°12'37.6185"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.85
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	186.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Reference Number : EQNX:001:LAB: W:21:06:01362 A ULR - TC682021000015553F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS34_B
Sample Depth (Meter): 3.4
Latitude: 22°10'51.2369"N
Longitude: 076°12'37.6185"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.33
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	198.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01363 A ULR - TC682021000015554F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS34_C
Sample Depth (Meter): 6.3
Latitude: 22°10'51.2369"N
Longitude: 076°12'37.6185"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.40
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.0

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01364 A ULR - TC682021000015555F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS35_A
Sample Depth (Meter): 0.5
Latitude: 22°10'50.4847"N
Longitude: 076°13'50.8560"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.97
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01365 A ULR - TC682021000015556F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS35_B
Sample Depth (Meter): 3.8
Latitude: 22°10'50.4847"N
Longitude: 076°13'50.8560"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.82
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	10.6
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01366 A ULR - TC682021000015557F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS35_C
Sample Depth (Meter): 7.1
Latitude: 22°10'50.4847"N
Longitude: 076°13'50.8560"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.93
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	180.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.6
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	11.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01367 A ULR - TC682021000015558F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS36_A
Sample Depth (Meter): 0.5
Latitude: 22°11'02.9467"N
Longitude: 076°13'44.1578"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.92
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	202.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.6
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01368 A ULR - TC682021000015559F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS36_B
Sample Depth (Meter): 3.15
Latitude: 22°11'02.9467"N
Longitude: 076°13'44.1578"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.95
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	202.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	9.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.6

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Reference Number : EQNX:001:LAB: W:21:06:01369 A ULR - TC682021000015560F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS36_C
Sample Depth (Meter): 5.8
Latitude: 22°11'02.9467"N
Longitude: 076°13'44.1578"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.92
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	204.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

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Reference Number : EQNX:001:LAB: W:21:06:01370 A ULR - TC682021000015561F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS37_A
Sample Depth (Meter): 0.5
Latitude: 22°10'50.8086"N
Longitude: 076°13'12.5329"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.91
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	34.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	8.5
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Reference Number : EQNX:001:LAB: W:21:06:01371 A ULR - TC682021000015562F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS37_B
Sample Depth (Meter): 2.6
Latitude: 22°10'50.8086"N
Longitude: 076°13'12.5329"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.93
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	198.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.7
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Reference Number : EQNX:001:LAB: W:21:06:01372 A ULR - TC682021000015563F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS37_C
Sample Depth (Meter): 4.7
Latitude: 22°10'50.8086"N
Longitude: 076°13'12.5329"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.90
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01373 A ULR - TC682021000015564F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS38_A
Sample Depth (Meter): 0.5
Latitude: 22°12'44.5740"N
Longitude: 076°12'37.6912"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.89
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01374 A ULR - TC682021000015565F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS38_B
Sample Depth (Meter): 5.2
Latitude: 22°12'44.5740"N
Longitude: 076°12'37.6912"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.91
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	208.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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Reference Number : EQNX:001:LAB: W:21:06:01375 A ULR - TC682021000015566F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS38_C
Sample Depth (Meter): 9.9
Latitude: 22°12'44.5740"N
Longitude: 076°12'37.6912"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.88
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	202.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01376 A ULR - TC682021000015567F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS39_A
Sample Depth (Meter): 0.5
Latitude: 22°12'51.7149"N
Longitude: 076°12'55.0521"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.89
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01377 A ULR - TC682021000015568F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS39_B
Sample Depth (Meter): 6.15
Latitude: 22°12'51.7149"N
Longitude: 076°12'55.0521"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.91
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	198.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01378 A ULR - TC682021000015569F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS39_C
Sample Depth (Meter): 11.8
Latitude: 22°12'51.7149"N
Longitude: 076°12'55.0521"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.85
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01379 A ULR - TC682021000015570F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS40_A
Sample Depth (Meter): 0.5
Latitude: 22°13'00.8356"N
Longitude: 076°13'12.1695"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.86
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.4
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01380 A ULR - TC682021000015571F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS40_B
Sample Depth (Meter): 3
Latitude: 22°13'00.8356"N
Longitude: 076°13'12.1695"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.90
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.8
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01381 A ULR - TC682021000015572F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS40_C
Sample Depth (Meter): 5.5
Latitude: 22°13'00.8356"N
Longitude: 076°13'12.1695"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.93
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01382 A ULR - TC682021000015573F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS41_A
Sample Depth (Meter): 0.5
Latitude: 22°13'00.8372"N
Longitude: 076°13'30.3724"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.96
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Reference Number : EQNX:001:LAB: W:21:06:01383 A ULR - TC682021000015574F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS41_B
Sample Depth (Meter): 3.55
Latitude: 22° 13'00.8372"N
Longitude: 076° 13'30.3724"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.99
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	198.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	29.6
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.2

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Reference Number : EQNX:001:LAB: W:21:06:01384 A ULR - TC682021000015575F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS41_C
Sample Depth (Meter): 6.6
Latitude: 22°13'00.8372"N
Longitude: 076°13'30.3724"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.02
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.4
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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Reference Number : EQNX:001:LAB: W:21:06:01385 A ULR - TC682021000015576F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS42_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0962"N
Longitude: 076°13'35.0410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.03
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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Certificate No. TC-6820

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Reference Number : EQNX:001:LAB: W:21:06:01386 A ULR - TC682021000015577F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS42_B
Sample Depth (Meter): 2.95
Latitude: 22° 13'17.0962"N
Longitude: 076° 13'35.0410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.03
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	195.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.4
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01387 A ULR - TC682021000015578F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS42_C
Sample Depth (Meter): 5.4
Latitude: 22°13'17.0962"N
Longitude: 076°13'35.0410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.03
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	33.6
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01388 A ULR - TC682021000015579F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS43_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0943"N
Longitude: 076°13'12.9833"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.03
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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Reference Number : EQNX:001:LAB: W:21:06:01389 A ULR - TC682021000015580F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS43_B
Sample Depth (Meter): 2.25
Latitude: 22°13'17.0943"N
Longitude: 076°13'12.9833"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.05
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	6.8
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	30.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01390 A ULR - TC682021000015581F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS43_C
Sample Depth (Meter): 4
Latitude: 22°13'17.0943"N
Longitude: 076°13'12.9833"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.05
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.2
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01391 A ULR - TC682021000015582F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS44_A
Sample Depth (Meter): 0.5
Latitude: 22°12'05.0336"N
Longitude: 076°11'18.0359"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.07
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	194.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01392 A ULR - TC682021000015583F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS44_B
Sample Depth (Meter): 4.15
Latitude: 22°12'05.0336"N
Longitude: 076°11'18.0359"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.98
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	196.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01393 A ULR - TC682021000015584F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS44_C
Sample Depth (Meter): 7.8
Latitude: 22°12'05.0336"N
Longitude: 076°11'18.0359"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.01
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Reference Number : EQNX:001:LAB: W:21:06:01394 A ULR - TC682021000015585F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS45_A
Sample Depth (Meter): 0.5
Latitude: 22°11'59.4657"N
Longitude: 076°11'39.5581"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.04
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	193.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.9

Authorised by

Certificate No. TC-6820

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01395 A ULR - TC682021000015586F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS45_B
Sample Depth (Meter): 8.45
Latitude: 22° 11'59.4657"N
Longitude: 076° 11'39.5581"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	8.02
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	190.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.8

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Certificate No. TC-6820

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Reference Number : EQNX:001:LAB: W:21:06:01396 A ULR - TC682021000015587F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS45_C
Sample Depth (Meter): 16.4
Latitude: 22°11'59.4657"N
Longitude: 076°11'39.5581"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.97
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.2
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.4

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Reference Number : EQNX:001:LAB: W:21:06:01397 A ULR - TC682021000015588F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS46_A
Sample Depth (Meter): 0.5
Latitude: 22°11'45.7985"N
Longitude: 076°11'30.3410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.97
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	183.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	31.3
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.4

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Reference Number : EQNX:001:LAB: W:21:06:01398 A ULR - TC682021000015589F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS46_B
Sample Depth (Meter): 6
Latitude: 22°11'45.7985"N
Longitude: 076°11'30.3410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.99
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	32.1
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.7

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Reference Number : EQNX:001:LAB: W:21:06:01399 A ULR - TC682021000015590F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS46_C
Sample Depth (Meter): 11.5
Latitude: 22°11'45.7985"N
Longitude: 076°11'30.3410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.96
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	192.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.0
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	6.8
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	5.3

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Certificate No. TC-6820

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01400 A ULR - TC682021000015591F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS47_A
Sample Depth (Meter): 0.5
Latitude: 22°11'32.2299"N
Longitude: 076°11'19.4450"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.97
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	189.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.7
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.5

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Reference Number : EQNX:001:LAB: W:21:06:01401 A ULR - TC682021000015592F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS47_B
Sample Depth (Meter): 3.8
Latitude: 22°11'32.2299"N
Longitude: 076°11'19.4450"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.98
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	198.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.5
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.0
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01402 A ULR - TC682021000015593F

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS47_C
Sample Depth (Meter): 7.1
Latitude: 22°11'32.2299"N
Longitude: 076°11'19.4450"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	pH Measurement	-	IS 3025:Part 11:1983 Reaff 2017	7.96
2	Total Dissolved Solids	mg / l	IS 3025:Part 16:1984 Reaff 2017 Amnd. 1	191.0
3	Calcium, as Ca	mg / l	IS 3025 : Part 40 : 1991 Reaff 2019	30.9
4	Nitrate	mg / l	IS 3025 : Part 34 : 1988 Reaff 2019	<1.0
5	Chloride Content	mg / l	IS 3025 : Part 32 : 1988 Reaff 2019	7.4
6	Sulphates, as SO_4	mg / l	IS 3025 Part 24:1986 Reaff 2019	6.6

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Annexure- B

Reports for

- Total Suspended Solids
- Suspended Sediments
- Organic Matter
- Salinity
- Sulphate, as SO3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01262 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS01_A
Sample Depth (Meter): 0.5
Latitude: 22°13'30.6628"N
Longitude: 076°09'42.2033"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	24.0
2	Suspended Sediment	mg / l	By Gravimetry	24.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0157
5	Sulphates, as SO_3	mg / l	By Calculation	4.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01263 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS01_B
Sample Depth (Meter): 6.8
Latitude: 22°13'30.6628"N
Longitude: 076°09'42.2033"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	19.0
2	Suspended Sediment	mg / l	By Gravimetry	19.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.5

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Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01264 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS01_C
Sample Depth (Meter): 13.1
Latitude: 22°13'30.6628"N
Longitude: 076°09'42.2033"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	30.0
2	Suspended Sediment	mg / l	By Gravimetry	30.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

Authorised by

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01265 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS02_A
Sample Depth (Meter): 0.5
Latitude: 22°13'37.6668"N
Longitude: 076°09'58.9761"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	10.0
2	Suspended Sediment	mg / l	By Gravimetry	10.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01266 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS02_B
Sample Depth (Meter): 8.8
Latitude: 22°13'37.6668"N
Longitude: 076°09'58.9761"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	14.0
2	Suspended Sediment	mg / l	By Gravimetry	14.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01267 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS02_C
Sample Depth (Meter): 17.1
Latitude: 22°13'37.6668"N
Longitude: 076°09'58.9761"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	21.0
2	Suspended Sediment	mg / l	By Gravimetry	21.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.001
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01268 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS03_A
Sample Depth (Meter): 0.5
Latitude: 22°13'29.4322"N
Longitude: 076°10'22.2925"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	15.0
2	Suspended Sediment	mg / l	By Gravimetry	15.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01269 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS03_B
Sample Depth (Meter): 6.5
Latitude: 22°13'29.4322"N
Longitude: 076°10'22.2925"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.6

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Reference Number : EQNX:001:LAB: W:21:06:01270 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS03_C
Sample Depth (Meter): 12.5
Latitude: 22°13'29.4322"N
Longitude: 076°10'22.2925"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	20.0
2	Suspended Sediment	mg / l	By Gravimetry	20.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0092
5	Sulphates, as SO_3	mg / l	By Calculation	4.7

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Reference Number : EQNX:001:LAB: W:21:06:01271 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS04_A
Sample Depth (Meter): 0.5
Latitude: 22°13'33.1439"N
Longitude: 076°10'35.3412"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0070
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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Reference Number : EQNX:001:LAB: W:21:06:01272 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS04_B
Sample Depth (Meter): 8.6
Latitude: 22°13'33.1439"N
Longitude: 076°10'35.3412"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01273 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS04_C
Sample Depth (Meter): 16.7
Latitude: 22°13'33.1439"N
Longitude: 076°10'35.3412"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.6

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Reference Number : EQNX:001:LAB: W:21:06:01274 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS05_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0795"N
Longitude: 076°10'17.9752"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01275 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS05_B
Sample Depth (Meter): 4.6
Latitude: 22°13'17.0795"N
Longitude: 076°10'17.9752"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01276 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS05_C
Sample Depth (Meter): 8.7
Latitude: 22°13'17.0795"N
Longitude: 076°10'17.9752"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	15.0
2	Suspended Sediment	mg / l	By Gravimetry	15.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	9.0
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01277 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS06_A
Sample Depth (Meter): 0.5
Latitude: 22°13'14.2027"N
Longitude: 076°10'34.6276"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01278 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS06_B
Sample Depth (Meter): 10.4
Latitude: 22°13'14.2027"N
Longitude: 076°10'34.6276"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	21.0
2	Suspended Sediment	mg / l	By Gravimetry	21.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01279 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS06_C
Sample Depth (Meter): 20.3
Latitude: 22°13'14.2027"N
Longitude: 076°10'34.6276"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	22.0
2	Suspended Sediment	mg / l	By Gravimetry	22.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0113
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01280 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS07_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0824"N
Longitude: 076°10'52.3079"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0116
5	Sulphates, as SO_3	mg / l	By Calculation	5.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01281 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS07_B
Sample Depth (Meter): 13.6
Latitude: 22°13'17.0824"N
Longitude: 076°10'52.3079"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01282 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS07_C
Sample Depth (Meter): 26.7
Latitude: 22°13'17.0824"N
Longitude: 076°10'52.3079"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01283 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS08_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0839"N
Longitude: 076°11'09.9883"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	3.0
2	Suspended Sediment	mg / l	By Gravimetry	3.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0011
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01284 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS08_B
Sample Depth (Meter): 7.4
Latitude: 22°13'17.0839"N
Longitude: 076°11'09.9883"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01285 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS08_C
Sample Depth (Meter): 14.3
Latitude: 22°13'17.0839"N
Longitude: 076°11'09.9883"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	14.0
2	Suspended Sediment	mg / l	By Gravimetry	14.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.6

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Reference Number : EQNX:001:LAB: W:21:06:01286 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS09_A
Sample Depth (Meter): 0.5
Latitude: 22°13'00.4560"N
Longitude: 076°10'52.8184"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	18.0
2	Suspended Sediment	mg / l	By Gravimetry	18.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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Reference Number : EQNX:001:LAB: W:21:06:01287 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS09_B
Sample Depth (Meter): 13
Latitude: 22°13'00.4560"N
Longitude: 076°10'52.8184"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.001
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01288 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS09_C
Sample Depth (Meter): 25.5
Latitude: 22°13'00.4560"N
Longitude: 076°10'52.8184"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01289 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS10_A
Sample Depth (Meter): 0.5
Latitude: 22°13'01.0984"N
Longitude: 076°11'10.2799"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0112
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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Reference Number : EQNX:001:LAB: W:21:06:01290 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS10_B
Sample Depth (Meter): 5.4
Latitude: 22°13'01.0984"N
Longitude: 076°11'10.2799"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	15.0
2	Suspended Sediment	mg / l	By Gravimetry	15.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0108
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01291 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS10_C
Sample Depth (Meter): 10.3
Latitude: 22°13'01.0984"N
Longitude: 076°11'10.2799"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01292 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS11_A
Sample Depth (Meter): 0.5
Latitude: 22°12'44.5664"N
Longitude: 076°11'10.1853"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01293 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS11_B
Sample Depth (Meter): 8.3
Latitude: 22°12'44.5664"N
Longitude: 076°11'10.1853"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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Reference Number : EQNX:001:LAB: W:21:06:01294 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS11_C
Sample Depth (Meter): 16.1
Latitude: 22°12'44.5664"N
Longitude: 076°11'10.1853"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01295 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS12_A
Sample Depth (Meter): 0.5
Latitude: 22°12'44.5679"N
Longitude: 076°11'28.1740"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0116
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01296 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS12_B
Sample Depth (Meter): 5.9
Latitude: 22°12'44.5679"N
Longitude: 076°11'28.1740"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

Authorised by

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01297 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS12_C
Sample Depth (Meter): 11.3
Latitude: 22°12'44.5679"N
Longitude: 076°11'28.1740"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 23-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01298 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS13_A
Sample Depth (Meter): 0.5
Latitude: 22°12'30.2485"N
Longitude: 076°11'12.0282"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01299 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS13_B
Sample Depth (Meter): 3.4
Latitude: 22°12'30.2485"N
Longitude: 076°11'12.0282"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	16.0
2	Suspended Sediment	mg / l	By Gravimetry	16.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0120
5	Sulphates, as SO_3	mg / l	By Calculation	4.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01300 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS13_C
Sample Depth (Meter): 6.3
Latitude: 22°12'30.2485"N
Longitude: 076°11'12.0282"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0092
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01301 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS14_A
Sample Depth (Meter): 0.5
Latitude: 22°12'28.7614"N
Longitude: 076°11'27.7536"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0120
5	Sulphates, as SO_3	mg / l	By Calculation	4.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01302 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS14_B
Sample Depth (Meter): 7.7
Latitude: 22°12'28.7614"N
Longitude: 076°11'27.7536"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	10.0
2	Suspended Sediment	mg / l	By Gravimetry	10.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0102
5	Sulphates, as SO_3	mg / l	By Calculation	4.4

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Reference Number : EQNX:001:LAB: W:21:06:01303 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS14_C
Sample Depth (Meter): 14.9
Latitude: 22°12'28.7614"N
Longitude: 076°11'27.7536"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01304 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS15_A
Sample Depth (Meter): 0.5
Latitude: 22°12'28.3107"N
Longitude: 076°11'45.0492"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01305 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS15_B
Sample Depth (Meter): 2.9
Latitude: 22°12'28.3107"N
Longitude: 076°11'45.0492"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01306 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS15_C
Sample Depth (Meter): 5.3
Latitude: 22°12'28.3107"N
Longitude: 076°11'45.0492"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01307 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS16_A
Sample Depth (Meter): 0.5
Latitude: 22°12'14.1173"N
Longitude: 076°11'27.5734"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01308 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS16_B
Sample Depth (Meter): 6.7
Latitude: 22°12'14.1173"N
Longitude: 076°11'27.5734"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01309 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS16_C
Sample Depth (Meter): 12.9
Latitude: 22°12'14.1173"N
Longitude: 076°11'27.5734"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01310 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS17_A
Sample Depth (Meter): 0.5
Latitude: 22°12'12.0520"N
Longitude: 076°11'45.6916"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01311 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS17_B
Sample Depth (Meter): 4.9
Latitude: 22°12'12.0520"N
Longitude: 076°11'45.6916"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	16.0
2	Suspended Sediment	mg / l	By Gravimetry	16.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01312 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS17_C
Sample Depth (Meter): 9.3
Latitude: 22°12'12.0520"N
Longitude: 076°11'45.6916"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01313 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS18_A
Sample Depth (Meter): 0.5
Latitude: 22°12'12.7002"N
Longitude: 076°12'02.6797"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01314 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS18_B
Sample Depth (Meter): 4.8
Latitude: 22°12'12.7002"N
Longitude: 076°12'02.6797"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01315 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS18_C
Sample Depth (Meter): 9.1
Latitude: 22°12'12.7002"N
Longitude: 076°12'02.6797"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	16.0
2	Suspended Sediment	mg / l	By Gravimetry	16.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	4.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01316 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS19_A
Sample Depth (Meter): 0.5
Latitude: 22°12'11.5865"N
Longitude: 076°12'20.1400"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01317 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS19_B
Sample Depth (Meter): 2.3
Latitude: 22°12'11.5865"N
Longitude: 076°12'20.1400"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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Reference Number : EQNX:001:LAB: W:21:06:01318 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS19_C
Sample Depth (Meter): 4.1
Latitude: 22°12'11.5865"N
Longitude: 076°12'20.1400"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	4.7

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Reference Number : EQNX:001:LAB: W:21:06:01319 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS20_A
Sample Depth (Meter): 0.5
Latitude: 22°11'55.7948"N
Longitude: 076°12'02.7809"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01320 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS20_B
Sample Depth (Meter): 5.1
Latitude: 22°11'55.7948"N
Longitude: 076°12'02.7809"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01321 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS20_C
Sample Depth (Meter): 9.7
Latitude: 22°11'55.7948"N
Longitude: 076°12'02.7809"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01322 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS21_A
Sample Depth (Meter): 0.5
Latitude: 22°11'56.1677"N
Longitude: 076°12'20.1441"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01323 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS21_B
Sample Depth (Meter): 11.3
Latitude: 22°11'56.1677"N
Longitude: 076°12'20.1441"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	19.0
2	Suspended Sediment	mg / l	By Gravimetry	19.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01324 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS21_C
Sample Depth (Meter): 22.1
Latitude: 22°11'56.1677"N
Longitude: 076°12'20.1441"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01325 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS22_A
Sample Depth (Meter): 0.5
Latitude: 22°11'39.8922"N
Longitude: 076°12'20.1484"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01326 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS22_B
Sample Depth (Meter): 0.9
Latitude: 22°11'39.8922"N
Longitude: 076°12'20.1484"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01327 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS22_C
Sample Depth (Meter): 1.3
Latitude: 22°11'39.8922"N
Longitude: 076°12'20.1484"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01328 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS23_A
Sample Depth (Meter): 0.5
Latitude: 22°11'39.8921"N
Longitude: 076°12'37.6073"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01329 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS23_B
Sample Depth (Meter): 2.9
Latitude: 22°11'39.8921"N
Longitude: 076°12'37.6073"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0112
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01330 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS23_C
Sample Depth (Meter): 5.3
Latitude: 22°11'39.8921"N
Longitude: 076°12'37.6073"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.009
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01331 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS24_A
Sample Depth (Meter): 0.5
Latitude: 22°11'38.6071"N
Longitude: 076°12'55.0664"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0112
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01332 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS24_B
Sample Depth (Meter): 7.3
Latitude: 22°11'38.6071"N
Longitude: 076°12'55.0664"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	10.0
2	Suspended Sediment	mg / l	By Gravimetry	10.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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Reference Number : EQNX:001:LAB: W:21:06:01333 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS24_C
Sample Depth (Meter): 14.1
Latitude: 22°11'38.6071"N
Longitude: 076°12'55.0664"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	22.0
2	Suspended Sediment	mg / l	By Gravimetry	22.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01334 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS25_A
Sample Depth (Meter): 0.5
Latitude: 22°11'22.9741"N
Longitude: 076°12'37.6112"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	15.0
2	Suspended Sediment	mg / l	By Gravimetry	15.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01335 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS25_B
Sample Depth (Meter): 9.6
Latitude: 22°11'22.9741"N
Longitude: 076°12'37.6112"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	21.0
2	Suspended Sediment	mg / l	By Gravimetry	21.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01336 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS25_C
Sample Depth (Meter): 18.7
Latitude: 22°11'22.9741"N
Longitude: 076°12'37.6112"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	19.0
2	Suspended Sediment	mg / l	By Gravimetry	19.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0112
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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Reference Number : EQNX:001:LAB: W:21:06:01337 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS26_A
Sample Depth (Meter): 0.5
Latitude: 22°11'22.7600"N
Longitude: 076°12'20.1529"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01338 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS26_B
Sample Depth (Meter): 3.2
Latitude: 22°11'22.7600"N
Longitude: 076°12'20.1529"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01339 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS26_C
Sample Depth (Meter): 5.9
Latitude: 22°11'22.7600"N
Longitude: 076°12'20.1529"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	26.0
2	Suspended Sediment	mg / l	By Gravimetry	26.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0112
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01340 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS27_A
Sample Depth (Meter): 0.5
Latitude: 22°11'23.1883"N
Longitude: 076°12'55.0694"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 24-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01341 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS27_B
Sample Depth (Meter): 4.1
Latitude: 22°11'23.1883"N
Longitude: 076°12'55.0694"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0116
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01342 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS27_C
Sample Depth (Meter): 7.7
Latitude: 22°11'23.1883"N
Longitude: 076°12'55.0694"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01343 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS28_A
Sample Depth (Meter): 0.5
Latitude: 22°11'22.9741"N
Longitude: 076°13'12.5277"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	3.0
2	Suspended Sediment	mg / l	By Gravimetry	3.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

Authorised by

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01344 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS28_B
Sample Depth (Meter): 4.5
Latitude: 22°11'22.9741"N
Longitude: 076°13'12.5277"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01345 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS28_C
Sample Depth (Meter): 8.5
Latitude: 22°11'22.9741"N
Longitude: 076°13'12.5277"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	20.0
2	Suspended Sediment	mg / l	By Gravimetry	20.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01346 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS29_A
Sample Depth (Meter): 0.5
Latitude: 22°11'23.2856"N
Longitude: 076°13'30.1975"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01347 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS29_B
Sample Depth (Meter): 7.45
Latitude: 22°11'23.2856"N
Longitude: 076°13'30.1975"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01348 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS29_C
Sample Depth (Meter): 14.4
Latitude: 22°11'23.2856"N
Longitude: 076°13'30.1975"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	25.0
2	Suspended Sediment	mg / l	By Gravimetry	25.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0103
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01349 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS30_A
Sample Depth (Meter): 0.5
Latitude: 22°11'06.8699"N
Longitude: 076°12'37.6149"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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Reference Number : EQNX:001:LAB: W:21:06:01350 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS30_B
Sample Depth (Meter): 6.35
Latitude: 22°11'06.8699"N
Longitude: 076°12'37.6149"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.010
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01351 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS30_C
Sample Depth (Meter): 12.2
Latitude: 22°11'06.8699"N
Longitude: 076°12'37.6149"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	28.0
2	Suspended Sediment	mg / l	By Gravimetry	28.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01352 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS31_A
Sample Depth (Meter): 0.5
Latitude: 22°11'07.0236"N
Longitude: 076°12'55.2908"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01353 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS31_B
Sample Depth (Meter): 5.4
Latitude: 22°11'07.0236"N
Longitude: 076°12'55.2908"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01354 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS31_C
Sample Depth (Meter): 10.3
Latitude: 22°11'07.0236"N
Longitude: 076°12'55.2908"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	21.0
2	Suspended Sediment	mg / l	By Gravimetry	21.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.1

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01355 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS32_A
Sample Depth (Meter): 0.5
Latitude: 22°11'07.2982"N
Longitude: 076°13'12.5303"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.018
5	Sulphates, as SO_3	mg / l	By Calculation	4.6

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01356 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS32_B
Sample Depth (Meter): 3.2
Latitude: 22°11'07.2982"N
Longitude: 076°13'12.5303"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0214
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01357 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS32_C
Sample Depth (Meter): 5.9
Latitude: 22°11'07.2982"N
Longitude: 076°13'12.5303"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.018
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01358 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS33_A
Sample Depth (Meter): 0.5
Latitude: 2° 11'07.0269"N
Longitude: 076° 13'30.1975"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.025
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01359 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS33_B
Sample Depth (Meter): 4.95
Latitude: 2° 11'07.0269"N
Longitude: 076° 13'30.1975"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0122
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01360 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS33_C
Sample Depth (Meter): 9.4
Latitude: 2° 11'07.0269"N
Longitude: 076° 13'30.1975"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01361 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS34_A
Sample Depth (Meter): 0.5
Latitude: 22°10'51.2369"N
Longitude: 076°12'37.6185"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	14.0
2	Suspended Sediment	mg / l	By Gravimetry	14.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01362 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS34_B
Sample Depth (Meter): 3.4
Latitude: 22°10'51.2369"N
Longitude: 076°12'37.6185"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	20.0
2	Suspended Sediment	mg / l	By Gravimetry	20.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01363 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS34_C
Sample Depth (Meter): 6.3
Latitude: 22°10'51.2369"N
Longitude: 076°12'37.6185"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	28.0
2	Suspended Sediment	mg / l	By Gravimetry	28.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01364 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS35_A
Sample Depth (Meter): 0.5
Latitude: 22°10'50.4847"N
Longitude: 076°13'50.8560"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.7

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Reference Number : EQNX:001:LAB: W:21:06:01365 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS35_B
Sample Depth (Meter): 3.8
Latitude: 22°10'50.4847"N
Longitude: 076°13'50.8560"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0191
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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Reference Number : EQNX:001:LAB: W:21:06:01366 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS35_C
Sample Depth (Meter): 7.1
Latitude: 22°10'50.4847"N
Longitude: 076°13'50.8560"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.021
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01367 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS36_A
Sample Depth (Meter): 0.5
Latitude: 22°11'02.9467"N
Longitude: 076°13'44.1578"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01368 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS36_B
Sample Depth (Meter): 3.15
Latitude: 22°11'02.9467"N
Longitude: 076°13'44.1578"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	15.0
2	Suspended Sediment	mg / l	By Gravimetry	15.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.011
5	Sulphates, as SO_3	mg / l	By Calculation	4.7

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01369 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS36_C
Sample Depth (Meter): 5.8
Latitude: 22°11'02.9467"N
Longitude: 076°13'44.1578"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	13.0
2	Suspended Sediment	mg / l	By Gravimetry	13.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01370 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS37_A
Sample Depth (Meter): 0.5
Latitude: 22°10'50.8086"N
Longitude: 076°13'12.5329"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	10.0
2	Suspended Sediment	mg / l	By Gravimetry	10.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.015
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01371 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS37_B
Sample Depth (Meter): 2.6
Latitude: 22°10'50.8086"N
Longitude: 076°13'12.5329"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.122
5	Sulphates, as SO_3	mg / l	By Calculation	5.0

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01372 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS37_C
Sample Depth (Meter): 4.7
Latitude: 22°10'50.8086"N
Longitude: 076°13'12.5329"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0123
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01373 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS38_A
Sample Depth (Meter): 0.5
Latitude: 22°12'44.5740"N
Longitude: 076°12'37.6912"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0122
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01374 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS38_B
Sample Depth (Meter): 5.2
Latitude: 22°12'44.5740"N
Longitude: 076°12'37.6912"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0130
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01375 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS38_C
Sample Depth (Meter): 9.9
Latitude: 22°12'44.5740"N
Longitude: 076°12'37.6912"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0123
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01376 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS39_A
Sample Depth (Meter): 0.5
Latitude: 22°12'51.7149"N
Longitude: 076°12'55.0521"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	19.0
2	Suspended Sediment	mg / l	By Gravimetry	19.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01377 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS39_B
Sample Depth (Meter): 6.15
Latitude: 22°12'51.7149"N
Longitude: 076°12'55.0521"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0123
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01378 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS39_C
Sample Depth (Meter): 11.8
Latitude: 22°12'51.7149"N
Longitude: 076°12'55.0521"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	15.0
2	Suspended Sediment	mg / l	By Gravimetry	15.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0130
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01379 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS40_A
Sample Depth (Meter): 0.5
Latitude: 22°13'00.8356"N
Longitude: 076°13'12.1695"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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Reference Number : EQNX:001:LAB: W:21:06:01380 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS40_B
Sample Depth (Meter): 3
Latitude: 22°13'00.8356"N
Longitude: 076°13'12.1695"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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Reference Number : EQNX:001:LAB: W:21:06:01381 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS40_C
Sample Depth (Meter): 5.5
Latitude: 22°13'00.8356"N
Longitude: 076°13'12.1695"E

Date of End of Analysis : 24-Jun-21

Sample Drawn By : Client

Date of Report : 25-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	12.0
2	Suspended Sediment	mg / l	By Gravimetry	12.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01382 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS41_A
Sample Depth (Meter): 0.5
Latitude: 22°13'00.8372"N
Longitude: 076°13'30.3724"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	48.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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Reference Number : EQNX:001:LAB: W:21:06:01383 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS41_B
Sample Depth (Meter): 3.55
Latitude: 22°13'00.8372"N
Longitude: 076°13'30.3724"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	17.0
2	Suspended Sediment	mg / l	By Gravimetry	17.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01384 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS41_C
Sample Depth (Meter): 6.6
Latitude: 22°13'00.8372"N
Longitude: 076°13'30.3724"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	14.0
2	Suspended Sediment	mg / l	By Gravimetry	14.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.0130
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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Reference Number : EQNX:001:LAB: W:21:06:01385 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS42_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0962"N
Longitude: 076°13'35.0410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01386 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS42_B
Sample Depth (Meter): 2.95
Latitude: 22°13'17.0962"N
Longitude: 076°13'35.0410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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Reference Number : EQNX:001:LAB: W:21:06:01387 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS42_C
Sample Depth (Meter): 5.4
Latitude: 22°13'17.0962"N
Longitude: 076°13'35.0410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	16.0
2	Suspended Sediment	mg / l	By Gravimetry	16.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.2

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01388 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS43_A
Sample Depth (Meter): 0.5
Latitude: 22°13'17.0943"N
Longitude: 076°13'12.9833"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	3.0
2	Suspended Sediment	mg / l	By Gravimetry	3.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01389 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS43_B
Sample Depth (Meter): 2.25
Latitude: 22°13'17.0943"N
Longitude: 076°13'12.9833"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	18.0
2	Suspended Sediment	mg / l	By Gravimetry	18.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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Reference Number : EQNX:001:LAB: W:21:06:01390 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS43_C
Sample Depth (Meter): 4
Latitude: 22°13'17.0943"N
Longitude: 076°13'12.9833"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

Authorised by

Note:

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01391 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS44_A
Sample Depth (Meter): 0.5
Latitude: 22°12'05.0336"N
Longitude: 076°11'18.0359"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01392 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS44_B
Sample Depth (Meter): 4.15
Latitude: 22°12'05.0336"N
Longitude: 076°11'18.0359"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01393 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS44_C
Sample Depth (Meter): 7.8
Latitude: 22°12'05.0336"N
Longitude: 076°11'18.0359"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	5.3

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01394 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS45_A
Sample Depth (Meter): 0.5
Latitude: 22°11'59.4657"N
Longitude: 076°11'39.5581"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	5.0
2	Suspended Sediment	mg / l	By Gravimetry	5.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.9

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01395 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS45_B
Sample Depth (Meter): 8.45
Latitude: 22°11'59.4657"N
Longitude: 076°11'39.5581"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	10.0
2	Suspended Sediment	mg / l	By Gravimetry	10.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	8.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01396 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS45_C
Sample Depth (Meter): 16.4
Latitude: 22°11'59.4657"N
Longitude: 076°11'39.5581"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	11.0
2	Suspended Sediment	mg / l	By Gravimetry	11.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.4

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01397 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS46_A
Sample Depth (Meter): 0.5
Latitude: 22°11'45.7985"N
Longitude: 076°11'30.3410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	7.0
2	Suspended Sediment	mg / l	By Gravimetry	7.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01398 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS46_B
Sample Depth (Meter): 6
Latitude: 22°11'45.7985"N
Longitude: 076°11'30.3410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	6.0
2	Suspended Sediment	mg / l	By Gravimetry	6.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	4.8

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01399 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 17-Jun-21

Sample Description : Sample ID: WS46_C
Sample Depth (Meter): 11.5
Latitude: 22°11'45.7985"N
Longitude: 076°11'30.3410"E

Date of End of Analysis : 25-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	17.0
2	Suspended Sediment	mg / l	By Gravimetry	17.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	9.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.012
5	Sulphates, as SO_3	mg / l	By Calculation	4.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01400 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS47_A
Sample Depth (Meter): 0.5
Latitude: 22°11'32.2299"N
Longitude: 076°11'19.4450"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	9.0
2	Suspended Sediment	mg / l	By Gravimetry	9.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	7.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.014
5	Sulphates, as SO_3	mg / l	By Calculation	5.41

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01401 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 15-Jun-21

Sample Description : Sample ID: WS47_B
Sample Depth (Meter): 3.8
Latitude: 22°11'32.2299"N
Longitude: 076°11'19.4450"E

Date of End of Analysis : 22-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	4.0
2	Suspended Sediment	mg / l	By Gravimetry	4.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	5.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.013
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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EQUINOX TEST CERTIFICATE

Reference Number : EQNX:001:LAB: W:21:06:01402 B

PARTICULARS OF SAMPLE ANALYSED

Client Name : Zenith Surveys (I) Pvt. Ltd.

Address : Unit No. 202, Raheja Tesla Industrial, Edison Building No.1, Plot No Gen2/1/C(Part), MIDC Juinagar, Dist. Thane, Navi Mumbai, City: Mumbai, State: Maharashtra, Zip Code: 400705.

Contact Person : Mr. Snehal

Date of Receipt : 15-Jun-21

Sampling Location : -

Date of Start of Analysis : 16-Jun-21

Sample Description : Sample ID: WS47_C
Sample Depth (Meter): 7.1
Latitude: 22°11'32.2299"N
Longitude: 076°11'19.4450"E

Date of End of Analysis : 23-Jun-21

Sample Drawn By : Client

Date of Report : 26-Jun-21

Sample Quantity & Condition : 1 Ltr. water in a white HDPE bottle is intact without any leaks.

RESULTS OF ANALYSIS

Sr.No.	Chemical Parameters	Units	Methods	Results of Analysis
1	Total Suspended Solids	mg / l	IS 3025 : Part 17 : 1984 Reaff 2017 Amnd. 1	8.0
2	Suspended Sediment	mg / l	By Gravimetry	8.0
3	Organic Matter	mg / l	IS 3025 : Part 18 : 1984 Reaff 2017 Amnd. 1	6.0
4	Salinity	ppt	APHA 2520B 23rd Edition 2017	0.133
5	Sulphates, as SO_3	mg / l	By Calculation	5.5

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