आईआरईएल (इंडिया) लिमिटेड
IREL (India) Limited
(भारत सरकार का उपक्रम)
(A Govt. of India Undertaking)
CIN : U15100MH1950GOI008187 Website : www.irel.co.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Company

TECHNOLOGIES FOR NEW INDIA @75
आज़ादी का अमृत महोत्सव

CORRIGENDUM - III 24.04.2026

Tender Number: IREL/MK/ET/34/2026 dated 17.03.2026

Tender Id: 2026_IREL_ 271726_1 dated 17.03.2026

Work Description: Request for Proposal (RFP) for selection of agency for installation of De-Sliming system at HUS (MK Unit) on Engineering Procurement Construction (EPC) Basis

With reference to the above tender, the following changes in the tender documents are proposed to be incorporated:

Description	Existing	To be read as
Date of closing of bid for submission of bids	30.04.2026, 14.00 PM	09.05.2026, 06.00 PM
Date & time of opening of cover 1	02.05.2026, 11.30 AM	11.05.2026. 11.30 AM

Modifications in the tender document along with the responses to the queries raised by the bidders are attached as enclosures.

All other terms and conditions shall remain unaltered.

24/4/26

HOD (Purchase)

24/4/2026

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Regd. Office: Plot No.1207, Veer Savarkar Marg, Near Siddhivinayak Temple, Prabhadevi, Mumbai - 400 028.

Corrigendum

Sl.No	Description	Existing	To be read as
1	Clause 2.4 Note (1)	A single bidder must be an Indian company. In case of consortium, the Lead Member must be an Indian company under the Indian Companies Act or Limited Liability Partnership Act and shall meet the entire turnover criteria. Both consortium members must meet the Net Worth Criteria individually. The Technical requirements can be jointly met by the consortium members together.	A single bidder must be an Indian company. In case of consortium, the Lead Member must be an Indian company under the Indian Companies Act or Limited Liability Partnership Act and shall meet the entire turnover criteria. Both consortium members must meet the Net Worth Criteria individually. The Technical requirements can be jointly met by the consortium members together. **The consortium member meeting the technical qualification on the support of their parent /holding company is required to remain as a consortium member till the completion of the project in entirety.**
2.	Clause 2.4 Note (2)	In case of a single bidder, the bidder may obtain the support of their parent/holding company to meet the technical qualifications. In such case, the parent/holding company shall provide a letter of authorization and irrevocable support to the bidder.	Bidder, whether single or **part of consortium**, may obtain the support of their parent/holding company to meet the technical qualifications. In such case, the parent/holding company shall provide a letter of authorization and irrevocable support to the bidder.
3.	Clause 2.4 Note (3)	In case of a single bidder, not meeting the technical criteria on its own, they are permitted to have a Licensor-Licensee arrangement with a technology provider who meets the technical qualifications which shall remain valid till the completion of the contract. In such case, the Bidder can use the credentials of their technology Licensor to meet the technical qualifications at (d) above. Such Technology Licensor shall not separately participate directly or through their subsidiary/holding	Bidder, whether single **or part of consortium**, not meeting the technical criteria on its own, are permitted to have a Licensor-Licensee arrangement with a technology provider who meets the technical qualifications which shall remain valid till the completion of the contract. In such case, the Bidder can use the credentials of their technology Licensor to meet the technical

		companies in this tender	qualifications at (d) above. Such Technology Licensor shall not separately participate directly or through their subsidiary/holding companies in this tender
4.	Cl.No.2.2 of 6.7 Special Conditions of the Contract (Page.110)	For Maintenance assistance, the bidder shall have a competent technical person at site from 9 AM to 5 PM & upon call during off time, till completion of warranty period. The technical person should be competent enough to handle the glitches as well as advise IREL staff rectifying the fault and provide training to IREL Maintenance staff	For Maintenance assistance, the bidder shall have a competent technical person at site from 9 AM to 5 PM & upon call during off time, till completion of **O & M assistance period (3 months).** The technical person should be competent enough to handle the glitches as well as advise IREL staff rectifying the fault and provide training to IREL Maintenance staff
5.	Description under Sl.No.1 Wire inserted hoses (Page. 59)	"Wire inserted rubber hose with rubber lined inbuilt metallic flanges on both ends. ID (mm) :125 mm/150mm/ 200mm Length (metres):6000 m"	"Wire inserted rubber hose with rubber lined inbuilt metallic flanges on both ends. ID (mm) :125 mm/150mm/ 200mm **Length (metres):6000 mm**"
6.	Cl.No.6.a (Page 37)	"The Bidder shall submit the construction methodology to be adopted by the bidder with respect to space management, erection sequence, testing and commissioning within 15 days of signing of the Agreement"	"The Bidder shall submit the construction methodology to be adopted by the bidder with respect to space management, erection sequence, testing and commissioning within **15 days from the approval of flowsheet**"
7.	Cl.No.11.a, (Page 44)	"Design and construction of thickener as per requirement of site for the completion of the work'	"Design and construction of **RCC tank** thickener as per requirement of site for the completion of the work'
8.	Cl.No.12.b (Page 40)	"Installation of the pumps shall be below the water level with positive suction of at least 2.0 m"	"Installation of the pumps shall be below the water level with positive suction of at least **1.50 m**"

9.	Painting (Page 61)	"Painting – After fabrication and erection of platforms, structural etc. shall be cleaned thoroughly and applied two coats of Zinc chromate primer and followed by two coats of chlorinated rubber paint smoke grey for platforms and golden yellow for handrails as per the requirement of the IREL. Epoxy primer and Epoxy black/grey paint of two coats shall be applied on the surface of wetted structural"	"Painting – All steel structural shall be abrasive blast cleaned to a standard equivalent to Sa2½ and be painted with primer, intermediate and finish coats suitable for C4 / C5 corrosion category as per ISO12944 depending on equipment location (sheltered or exposed)"
10.	Cl.No.9.a, (Page 43)	"Design and construction of RCC foundation of de-sliming equipment and supporting structure for overhead pipe line to be done as per requirement of site for the completion of the work and details of the same are to be submitted"	"Design and construction of RCC foundation **& column, shed** of de-sliming equipment and supporting structure for overhead pipe line to be done as per requirement of site for the completion of the work and details of the same are to be submitted"
11.	Cl.1.a (Page 50)	"Make and manufacture: The manufacturers of trash screen shall be from reputed one who has executed supply of trash screen of minimum 200tph capacity, mesh size range to mineral sand industry as proposed for supply. Copy of PO and completion certificate for the same towards proof has to be submitted."	"Make and manufacture: The manufacturers of trash screen shall be from reputed one who has executed supply of trash screen to **mining industry** as proposed for supply. Copy of PO and completion certificate for the same towards proof has to be submitted."

12.	Cl.11.c Page 44	"Modifications in Pond-1 to ensure process overflow from HUS circuit (Stream-II) shall not contaminate the process water available in settling pond."	"Modifications in Pond-1 to ensure process overflow from HUS circuit (Stream-II) shall not contaminate the process water available in settling pond and isolation of the equipment location by construction of RCC retaining wall."
13.	Page 08	Date of closing of bid for submission of Bids: 30.04.2026, 14.00 PM Date & time of opening of Cover 1: 02.05.2026, 11.30 AM	Date of closing of bid for submission of Bids: 09.05.2026, 06.00 PM Date & time of opening of Cover 1: 11.05.2026, 11.30 AM

Response for the queries submitted by the prospective bidders

Sl. No	Clause No.	Clause as per RFP document	Query	Clarification
1.	Note (2) & Note (3) to Clause 2.4 - Pre Qualification Criteria	In case of a single bidder, the bidder may obtain the support of their parent company or have a Licensor-Licensee arrangement for meeting the Technical qualifications	Request that all bidders (whether single or a member of consortium) be permitted to take the support of their parent company and/or technology licensor for meeting the technical qualifications. This modification will also align with Note (b) to QBS-Bidder Evaluation Matrix (Clause 2.4.1) wherein all bidders are permitted to use the credentials of their parent company and/or technology licensor to meet the technical qualifications	Refer Corrigendum-III
2.	Clause 2.2 Pg. 110	For Maintenance assistance, the bidder shall have a competent technical person at site from 9 AM to 5 PM & upon call during off time, till completion of warranty period.	Competent technical assistance will be provided by the contractor during warranty period. But it will not be possible to post technical persons at site throughout the warranty period.	Refer Corrigendum-III
3.	Draft of Agreement - Article 4.4.2	Obtaining of all necessary Governmental Approvals and clearances for commencement of the Works as may be required under Applicable Law	What are the government approvals required to be taken by the contractor? This is important because as per Article 4.5, if these approvals are not taken within 7 days of Effective Date, the Agreement can be terminated and SD forfeited	RFP Conditions would prevail.
4.	Draft of Agreement - Article 5.1	This Agreement shall take effect from the Effective Date of the Agreement and shall remain in force till completion of operation & maintenance assistance subsequent to commissioning (for a period of fifteen (15) months).	Considering the Scope of Work, the duration of the Agreement has to be minimum 24 months, including 3 months O&M assistance	RFP Conditions would prevail.
5.		Article 6: Security Deposit and Article 7: Performance Bank Guarantee	The contractor may be permitted the option to submit a single Security Deposit cum Performance Bank Guarantee valid throughout the contract execution period till completion of the Defect Liability Period	RFP Conditions would prevail.
6.		Article 27.3.2. IREL will not pay the Agency for any work, which is performed during such an interval of suspension, and IREL shall not be liable to the Agency for any damages or loss caused by such suspension of work	In case of temporary suspension of project for IREL's convenience, costs incurred by the Agency during such temporary suspension shall be paid by IREL.	RFP Conditions would prevail.

7.	9	Shutdown of HUS operation required for erection of Screen and Mixing chamber shall be notified by the bidder to IREL, accordingly a total of 5 days shutdown shall be provided for erection and commissioning of Screen and Mixing chamber, subsequent to which the Screen shall be integrated with HUS operation.	Dismantling of existing mixing chamber and screen followed by structural modifications, erection and commissioning of new equipment is not feasible in 5 days. Kindly consider 14 days for this work. Are these 5 days in addition to the 14 days of plant shutdown mentioned in the RFP. Also, whether 5 days of PG test will be considered after the erection and commissioning of the screen also?	Total of 14 days shutdown will be available for integration of the project as provided in the RFP. Therefore, the bidder shall execute the work concurrently during the aforesaid period.
8.	5.g	The make-up water for the process water shall be provided from existing settling pond.	Water available in the existing settling pond the only source of water for meeting the make-up water requirement or any other identified source. Kindly clarify	Water from the settling pond is the only source for operation.
9.	6.1.4.b	The Selected Bidder shall submit 1 (One) set of drawings and documents for approval of IREL and the approved drawings shall be submitted in 6 (six) sets as follows but not limited to:	Please clarify the time limit for approval of drawings by IREL and category of drawings to be approved by IREL as it has bearing a overall schedule	On receipt of the drawings, IREL will issue approval within 14 days.
10.	4.g	Obtaining statutory clearances from Government bodies wherever necessary.	Please indicate the list of statutory clearances required for the project by IREL as it has a bearing on schedule and cost	Obtaining approval from DGMS for Electrical installations comes under the bidders' scope.
11.	I.1 Pg. 36	The scope of work shall cover engineering, fabrication, , procurement, assembly, inspection & testing at manufacturer's works, painting, packing, transportation, supply, unloading, storage & unpacking at site, erection, testing, trial run, commissioning and demonstration of performance guarantee parameters of technological/ mechanical/process equipment facilities and equipment as envisaged for installation of screen for trash removal, slime removal system for feed to HUS, slime removal system for HUS output, de-watering, de-sliming of tailing stream, pumping station for process water, slime thickening, dewatering and water recovery system. The performance parameters shall be verified by IREL lab.	Please confirm whether IREL will provide a storage area for equipment supplied including tools and tackles.	IREL will provide open area and the bidder shall make the required arrangement for storage and security of equipment, tools and tackles, etc., on their own.

12.	8.e	Supply of all required material including steel, towards installation and commissioning of the screen as per technical specification, with all accessories for satisfactory performance. Design of screen is in the scope of Agency and Agency shall consider mixing chamber outlet chute, dimension of RCC tank (Tank 1) in operation for collection of screen undersize fraction and oversize collection pit.	Based on the site visit, the officials indicated that IREL would share the tank and mixing chamber drawings. Kindly provide the drawings along with all related details.	Existing RCC tank schematic drawings is enclosed as Annexure-I
13.	Time Period	The Selected Bidder shall complete the commissioning of all proposed installations/ circuits and associated facilities in this ToR within a period of Fifteen (15) months from the effective date.	We would like to request IREL to consider a time period of 21 months (exclusive of O&M assistance period) to complete the project. Please confirm.	RFP Conditions would prevail.
14.	Wire Inserted Hoses Page 59	The scope of work involves supply of 6000m of wire inserted rubber hose.	Supply of wired inserted rubber hose for sea sand minerals does not lie under the battery limits mentioned under clause 6.1.2 (page no. 29).	Refer Corrigendum-III
15.	Construction Methodology and Sequence of Erection Point no. 6, Page 37	The Bidder shall submit the construction methodology to be adopted by the bidder with respect to space management, erection sequence, testing and commissioning within 15 days of signing of the Agreement	Since, the accurate construction plan can only be prepared post the test work and finalization of flow sheet with equipment, it is requested to rephrase the clause as follows: "The Bidder shall submit the construction methodology to be adopted by the bidder with respect to space management, erection sequence, testing and commissioning within 15 days of approval of flow sheet by IREL."	Refer Corrigendum-III
16.		Filter Press	Kindly clarify the number of filter press required. Also, kindly indicate the availability of compressed air	The number of filter press would be as per the bidder's design. The Compressed air required for operation shall be made available by the bidder.
17.	1.7.1 (Annexure-2)	The scope of work includes design, supply, installation and commissioning of thickener as per the following duty conditions: i. Feed rate to thickener: 1500-1700 m3/hr. of slurry	Based on preliminary calculation it seems that thickener would need to process 2000 cu.m per hour of slurry from hydrocylones cluster-I & II, stage 3, tailings, attrition scrubber feed and CPD overflow. Kindly confirm the design feed rate for thickener.	The RFP specifies that the feed rate to Thickener shall be as per the bidder's design. The thickener shall however have the facility to operate on varying load (low, medium & high) depending on the slime content in the feed.

18.	Air compressor		During the site visit, we understood that an air compressor and room is required. Kindly provide the detailed requirements, including any preferred make/brand. Also, please confirm the location of the compressor room. Kindly clarify whether the construction of compressor room shall be under the scope of bidder or owner.	Equipment selection and provision of suitable enclosure/shelter falls under the scope of the bidder.
19.	Cl. 6.1.7 Civil Works, Note item (viii); Soil Report Ref. 55ACSMT/2024-25 — GWT depth not recorded in report; Cl. 3.3(x) GCC — dewatering during excavation		The soil investigation report does not record groundwater table (GWT) depth at any of the three bore holes. Since the site is coastal beach sand (Silty Sand SP/SM), GWT is expected at a shallow depth. Please confirm: (a) Measured GWT depth at BH-1, BH-2, and BH-3 locations. (b) Seasonal variation in GWT — minimum in summer and maximum during monsoon (June to October). (c) Any earlier GWT data from wellsor borings at the HUS site. This is essential for pile construction methodology (casing, tremie concreting) and all foundation excavation planning.	The soil investigation shall be within the scope of the bidder as design is under the bidder's scope.
20.	Soil Report — End Bearing Pile recommended, in. M30; Cl. 6.1.7(d) Civil Works — foundation shall not harm existing foundations; IS:2911 applicable for pile design		The soil report recommends End Bearing Pile foundation. For accurate pile cost estimation and construction methodology, please clarify: (a) Preferred pile construction method — Bored Cast-in-Situ (BCIS) or Driven Precast. (b) Whether full-length temporary steel casing is required to prevent borehole collapse in coastal silty sand during BCIS boring. (c) Whether bentonite slurry stabilization is required during boring. (d) Whether initial or routine load tests are mandatory as per IS:2911 or IREL requirement — if yes, how many and what type (static or dynamic). (e) Plan showing BH-1, BH-2, BH-3 locations relative to proposed structures, since BH-3 shows Sandy Clay at 0 to 3m depth which differs from BH-1 and BH-2.	

21.	Cl. 6.1.10 Item 11(b) — Pumping Station: positive suction minimum 2.0m below water level; Cl. 3.3(x) GCC — dewatering during excavation; Cl. 7.4 GCC — contractor to inform himself fully		The process water pumping station requires pumps installed with a positive suction of minimum 2.0m below the settling pond water level. This means the pump pit will be constructed well below natural ground and likely below GWT. Please confirm: (a) Current water surface level in the settling pond relative to existing ground level at the proposed pump station location. (b) Approximate required excavation depth for the pump pit below existing ground level. (c) Whether sheet piling or cofferdam construction will be required for safe pump pit excavation. (d) Whether the cost of such temporary works including sheet piles, dewatering pumps, and well points is included within the EPC Lump Sum scope or will be separately compensated by IREL.	a) The level difference of current water surface level in the settling pond and existing ground level is approximately 0.5 m. b) Excavation depth shall be decided by the bidder based on the site conditions to meet the requirement. c) Bidder shall follow appropriate methodology based on site condition. d) the lumpsum amount to be quoted should be inclusive of all such cost and no extra cost over and above the lumpsum amount will be considered. RFP conditions would prevail
22.	Cl. 3.3 Note (viii) — excavation measured strictly as per foundation size only, no allowance for working space or side slope; Cl. 58.0 — Mode of Measurement IS:1200; Cl. 6.1.7 Civil Works — all works within EPC Lump Sum		For pile foundation construction in coastal Silty Sand, the following scope clarifications are needed: (a) Is pile cap excavation, PCC bed below pile cap, and backfilling after pile cap concreting within the EPC Lump Sum scope? (b) Who bears the cost of cut-off lengths of piles — waste pile concrete above cut-off level? (c) Is mobilization of boring rig, supply and removal of temporary casing, and boring accessories cost within EPC scope? (d) If obstructions such as old foundation remnants or boulders are encountered during pile boring, how will extra cost and time be treated under the Lump Sum contract?	The foundation design methodology falls under bidder's scope and the lumpsum amount to be quoted should be inclusive of all such cost and no extra cost over and above the lumpsum amount will be considered.
23.	Cl. 6.1.4 Engineering — bidder to develop layout within available space; Cl. 6.1.7(a) — submit GA/layout/design drawings for IREL approval; Cl. 6.1.3(a) — site visit to understand site condition and assess scope		Will IREL provide any of the following reference documents to enable accurate Lump Sum estimation: (a) Existing HUS area layout or plot plan, even a rough schematic, showing the available construction space for new structures — screen, slime removal system, pump station, thickener, and MCC rooms. (b) As-built civil drawings of existing HUS structures such as tank P1, existing sumps, column locations, and floor elevations. (c) Any concept block layout developed internally by IREL for this project. Without at least a schematic plan, all structural and civil quantities carry plus or minus 35 to 40 percent estimation uncertainty which directly affects the Lump Sum bid price.	Existing HUS operational area layout is enclosed as Annexure-I. As the flowsheet design, equipment selection & design etc falls under the scope of the bidder, the bidder shall develop the schematic based on the above provided information. Since the flowsheet design, equipment selection & design etc falls under the scope of the bidder, the tentative concept layout developed by IREL have no relevance. The bidders who visited the site and obtained certificate from IREL may visit the site again to assess the site conditions for their estimation.

24.	Cl. 6.1.10 Items 13 and 14 — thickener/clarifier dimension must be limited to site condition; Cl. 6.1.7(d) Civil Works — slime thickener and filter press foundation and structure to be approved before start of work		No dimension or equipment load data has been provided for the thickener/clarifier or the filter press system. These are the largest single foundation items in the entire civil scope. Please provide: (a) Available area in metres (L x W) for thickener installation at the pond area. (b) Indicative thickener diameter being considered. (c) Total operating weight of thickener including dead load, liquid load, and rake mechanism load for foundation design. (d) Filter press system overall dimensions and total weight or foundation load. Even indicative parameters with plus or minus 20 percent tolerance will significantly reduce estimation uncertainty.	a) The area available for establishing the desliming system is provided in the HUS operational area layout (Annexure-I). b) c) & d) - As the flowsheet design and equipment selection falls under the scope of the bidder, the bidder shall design the equipment load etc.,
25.	Cl. 6.1.7 Civil Works — Screen scope item (c): foundation to be done without causing damage to existing nearby structure; Cl. 6.1.7(d) — screen foundation and structure to be approved before start		The vibrating screen (250 TPH) is a dynamic load machine whose foundation is to be built on the periphery of the existing RCC circular tank P1. Please provide: (a) As-built drawings of existing RCC tank P1 including plan, cross-section, foundation type and depth. (b) Minimum safe construction clearance from the P1 tank foundation as required by IREL. (c) Whether structural monitoring such as settlement gauges or tilt meters is mandatory on P1 during piling, construction, and screen operation. (d) Whether P1 tank is operational during construction and if so, whether there are any vibration or impact restrictions near it. (e) Who is liable if P1 is damaged during construction despite following approved design?	The bidder shall assess the present site condition vis-à-vis their proposed equipment design so as to protect the integrity of the existing RCC P1 tank. The foundation for the equipment proposed by the bidder shall be designed taking into account the site condition and the bidder shall ensure the structural stability of the existing structures by taking adequate precautionary measures while executing the work. P1 tank will be operational during the construction. Bidder shall ensure that no damage is caused to any of the existing structures during the execution of work.
26.	Cl. 6.1.10 Item 10(h) and (i) — overhead pipeline GI/MSRL for slime process water; Item 12(e) — header line to be elevated to distributor level with proper foundation support; Civil Scope II item 9(a) — overhead pipeline supporting structure	Total overhead pipeline length; maximum height above ground; number and locations of road crossings; maximum pipe diameter; approximate trestle spacing	The scope includes overhead GI/MSRL pipelines for slime process water and an elevated water distribution header. For estimating pipe trestle foundations and structural steel supports, please provide: (a) Approximate total length of all overhead pipeline sections. (b) Maximum height above ground level required. (c) Number and locations of road or process area crossings where underground Hume pipe ducting is required. (d) Maximum pipe diameter to be supported on overhead trestles. (e) Approximate trestle spacing envisaged by IREL.	The bidder shall select the parameters depending upon their process design considering the site conditions and good engineering practice.

27.	Cl. 6.1.7	The following are to be approved before start of work:Structures of screen, de sliming equipment, scrubber, overhead pipe conduit, sump/pit for water pumps, electrical MCC rooms, standalone structures, slime thickener & filter press foundation & structure.	The RFP lists standalone structures as one of the items requiring IREL approval before start of work but does not define what they are. Please clarify: (a) What are standalone structures in this project — process equipment support platforms, walkway bridges, elevated pipe supports, access towers, or other? (b) How many standalone structures are envisaged? (c) Approximate dimensions and load bearing requirements. (d) Material — RCC, structural steel, or composite. This information is needed to ensure all such structures are included in the Lump Sum bid.	a) Standalone structures includes all process equipment structures and its connected approach & platforms structures etc., b) The number of structures would depend on the bidder's design. c) Dimension and load bearing parameters would depend on the bidder's equipment selection which falls under the bidder's scope. d) Thickener tank and overhead pipeline supports shall be of RCC structures.
28.	Civil Scope II Item 11(c) — modifications in Pond-1 to ensure Stream-II process overflow does not contaminate settling pond; Cl. 6.1.10 Item 14(b) — two fractions of overflow to be accommodated in thickener feed; Civil Scope II Item 10(c) — modifications in existing culvert and channel		The Pond-1 modification is listed in civil scope but the type and nature of modification is not defined anywhere in the RFP. The cost varies 5 to 10 times depending on the solution type. Please clarify: (a) Is it an RCC bund or dividing wall within the pond? (b) Is it a sheet pile cutoff wall? (c) Is it a new earthen embankment? (d) Is it a bypass or diversion channel? (e) Or a combination of these? Please also confirm the existing culvert or channel cross-section size, current flow capacity, and the design flow rate for which modification is needed. Please provide at minimum a concept sketch or description of the intended solution. This is the highest-uncertainty cost item in the entire civil scope.	a) b) c) & d) – RCC retaining wall shall be constructed within Pond-1 as modification. e) Flow in the existing channel is 300-400 cu.m per hour. Flow beyond the above quantity requires modification.
29.	Civil Scope II Item 11(c) — Pond- 1 modification; Cl. 6.1.10 Item 11(a) — pump station positive suction minimum 2.0m below water level; Civil Scope II Item 10(a) — pump station RCC structure design		Normal operating water level in metres from existing ground level. Maximum water level during peak monsoon June to October. Minimum water level during dry season. Bed condition — compacted, silty, or loose fill. Whether Pond-1 is ever drained or dewatered for maintenance and if so, the frequency.	The floor of Pond-1 is made of RCC and the floors of Pond – 2 & 3 is of soil bed. The operating water level in the pond is the same as the existing ground level while the depth of the pond is 1.5 m. The bed condition in the pond area is silty. Pond 1 will be drained for facilitating the execution of modification.

30.	54.1	MATERIALS OBTAINED FROM DISMANTLEMENT &EXCAVATION ETC: Contractors in the course of their works should understand that all material (e.g.store and other materials obtained in the work of dismantling, excavation, etc. will be considered Employer's property) and issued to the Contractor (if they require the same for their own use) at rates approved by him. If these materials are not required by them they will be disposed off to the best advantage of Employer.	All dismantled materials are the property of IREL. Please clarify: (a) Will IREL arrange for storage or removal of all dismantled materials — structural steel scrap, demolished RCC, and old process equipment — from the construction area? If not, how far must the EPC contractor haul and stack them beyond the 500m mentioned in Cl. 3.3? (b) Please confirm the designated stacking or disposal area location. (c) Can the EPC contractor adjust any salvage value of recovered steel or equipment against the Lump Sum bid price?	a) & b) - The bidder shall remove, transport and stack the dismantled materials at the designated place located within a radius of 500 m. b) Items will not be allowed for salvage.
31.	Cl. 6.1.7(c) Civil Works — structural design criteria to be approved by Authorized Structural/Civil Engineering Expert before submission to IREL;	The Selected Bidder shall prepare all GA/layout/construction/ design drawings and shall obtain IREL's approval on them (after incorporating IREL's comments / observations if any). Design drawings shall be submitted for approval while design calculation shall be under reference category. Quantity of structural work involved shall be indicated in design drawings.	Design approval process clarification is needed for construction programme planning: What is the definition of Authorized Structural/Civil Engineering Expert as per IREL — a Government-licensed Structural Engineer, a Chartered Engineer registered with IEI, or an IREL nominated expert? Who appoints the Authorized Expert — the EPC contractor or IREL? These parameters are needed to build a realistic construction programme and price the engineering phase.	The structural design criteria should be carried out by the bidder in accordance with the relevant Indian Standard Codes and all the design calculations and drawings shall be approved by the institutes like IIT/NIT/SERC/WAPCOS.
32.	Cl. 3.3 Design Note (b) — IS:875 Part III, cyclonic prone area; Cl. 3.3 Design Note (d) — IS:1893 Part IV; Appendix 10 — Site Particulars at Manavalakurichi		For accurate structural steel section sizing and cost estimation, the following wind and seismic design parameters are needed and are not stated in the RFP: (a) Basic Wind Speed Vb in m/s for Manavalakurichi as per IS:875 Part III wind zone map — the RFP describes the site as cyclonic prone but the Vb value is not given. (b) Terrain Category applicable for the HUS plant site as per IS:875 Part III. (c) For IS:1893 Part IV seismic design, are any structures in this project classified as Essential Facilities requiring an Importance Factor I greater than 1.0? (d) Please confirm the IS:1893 soil type for seismic design — the soil report shows Silty Sand SP/SM which is typically Type II, confirm if this is the applicable soil type for design.	The soil investigation shall be within the scope of the bidder as design is under the bidder's scope

33.	I.12.h	Supply, installation and commissioning of 2ton EOT/Monorail crane above the water pumps to handle the maintenance of pumps, motors and valves in the pumping station along with load testing by the competent Engineer as per Factories Act 1948	For the 2T EOT/Monorail crane to be installed in the pump station, who is responsible for obtaining the Factories Act statutory inspection certificate — IREL or the EPC contractor — and will IREL facilitate the Tamil Nadu Factory Inspector visit to site?	Bidder shall arrange for obtaining load testing by the Competent Engineer as required under the statute.
34.	9	Shutdown of HUS operation required for erection of Screen and Mixing chamber shall be notified by the bidder to IREL, accordingly a total of 5 days shutdown shall be provided for erection and commissioning of Screen and Mixing chamber, subsequent to which the Screen shall be integrated with HUS operation.	Only a 5-day shutdown is mentioned in the RFP for the screen and mixing chamber. For civil construction planning of all other areas: (a) Will the pump station, thickener area, MCC rooms, sump, and Pond-1 modification areas be under active HUS plant operation during civil construction? (b) Are there noise or vibration restrictions near active process equipment during piling operations since pile boring and driving creates significant ground vibration? (c) Are there any restrictions on night-shift concrete casting, Sunday work, or use of noisy machinery within IREL factory premises? (d) Is use of explosive or hydraulic impact demolition permitted for breaking existing RCC foundations or are only mechanical and manual demolition methods allowed?	a) Activities viz., Pond-1 modification, construction of Pumping station, thickener, Filter Press etc., shall be carried out outside the active HUS operational area. b) Bidder shall ensure adherence to all applicable norms. c) Bidder is permitted to work as per requirement with prior approval. d) Bidders shall use mechanical or manual demolition methods only.
35.	Civil Scope II Item 6 — construction water and power to be provided by IREL at single point at battery limit boundary; Cl. 7.5(b) GCC — access roads at contractor cost; Cl. 6.1.9 —construction equipment list to be furnished	Available lay-down area size; crane height restrictions; construction power supply location and kVA; construction water supply location and flow rate; billing basis for utilities; plant road load-bearing capacity	Site logistics and utility supply clarifications needed for Preliminary and General cost estimation: (a) Total area available as lay-down space for EPC contractor including material storage, steel fabrication bay, site office, piling rig staging area, and concrete batching if required. (b) Any crane height restrictions near the settling pond, overhead power lines, or active process areas. (c) Location of IREL's single-point construction power supply and available capacity in kVA. (d) Location of single-point construction water supply and available flow rate in m3 per hour. (e) Whether cost of construction power and water consumed is chargeable to EPC contractor at actuals or provided free of cost within EPC scope. (f) Load-bearing capacity of existing IREL plant roads for heavy vehicles such as 100T mobile crane and 40T low-bed trailer.	a) & b) - The bidders who visited the site and obtained certificate from IREL may visit the site again to assess the site conditions for their estimation c) & d) - Three phase , 415V , AC supply and water will be made available near pond area. (e) Cost of power and water is not chargeable. (f) RCC roads 2.5 tons/m^2 and Bitumen roads 2.2 – 2.5 tons/ m^2.
36.	As per Head – VII (Technical Specification of Electrical Part), Clause No.- 1.1.4,		MCC – 6H (Slime Removal System) current rating has been kept only 630 Amps. But due to increase in Number of Pumps & higher Pump Capacity requirement, 630 Amps. rating MCC will not be sufficient to feed all pump & other Electrical Loads of Slime Removal System. So,	The Bidder shall design the process flowsheet within the specified capacity of MCC-6H for Slime removal system.

			MCC – 6H Incomer air Circuit Breaker & Bus - Bar ratings may be required at higher side up to 1250 Amps. Please check the availability of 1250 Amps. Outgoing Feeder in Existing MCC – 5H or any nearby 415 V A.C. MCC or L.T. Substation (LCSS) for feeding to higher rating 1250 Amps. MCC-6H.	
37.	As per Head – VII (Technical Specification of Electrical Part), Clause No.- 1.1.4,		MCC – 7H (Pumping Station Thickener & Filter Press) Rating has been kept 800 Amps. but its Incoming Supply feeding from nearby MCC or L.T. Substation (LCSS) has not been mentioned in Tender TS. Get the confirmation for feasibility of connecting 1.1 kV Rating Aluminium Conductor Power Cable – 3 Runs X 3.5 Cores X 400 mm2 in nearby 415 V A.C. MCC or L.T. Substation (LCSS) Outgoing Feeder.	MCC-7H incoming supply feeding shall be LT ACB panel at substation and it is feasible to connect the specified cable.
38.			Soil Resistivity of new installation site in Ohm-Metre, which is required for calculation of Number of Earthing Pits along with Fault Current, has not been mentioned in Tender Technical Specification. Please provide the same.	Indicative value of Soil resistivity is 85-125 Ω.m. Bidder shall measure and design the earthing system as per the site conditions.
39.			Whether Electrical Inspectorate / DGMS clearance of all Electrical Installations shall be under the scope of Contractor?	Obtaining Statutory clearances from concerned authorities including DGMS falls under the bidders' scope.
40.	As per Head – VIII (Technical Specification of Instrumentation Part), Clause No.- 1.1.2 (ii), Page No.- 102	Development of PLC Program, Development of SCADA/HMI, Integration of Existing PLC to New PLC hardware. The Ladder Logic of PLC and HMIto be followed as per existing PC Based control system.	Contractor Scope shall be Integration of existing PLC with new PLC Hardware. So, please specify the Communication Protocol & Model No. of Existing PLC (Make – Phoenix Contact).	Communication Protocol: OPC-UA Model Number: AXC F1152
41.			Whether any Hot Redundancy is required in new PLC System?	Bidder to decide.

42.	6.4	Payment Terms	1. Request consideration of stage-wise payment as below: 5% – After approval of flow sheet 5% – After submission of detailed design & engineering 75% – Progressive payment for supply of plant & equipment 5% – On completion of erection 5% - On commissioning & PG test with O&M spares 5% - Against Final Acceptance Certificate.	RFP Conditions would prevail.
43.	6.4	Payment of sixty percent (60%) of Price Schedule shall be released towards progressive payments for Supply of Plant & Equipment and building steel. Invoicing for progress payments will be made in RA Bills with minimum value of each bill to be INR 2 Crore or as per the billing schedule to be submitted by the Successful Bidder against milestones to be mutually discussed and approved by IREL	Minimum cap of 2 crores on each bill will seriously jeopardize the contractor's cash flows and hence may be deleted.	RFP Conditions would prevail
44.	Article-20	Liquidated Damages	Request clarification on LD percentage and maximum cap. Request maximum cap limited to 5% of contract value.	RFP Conditions would prevail
45.	47.1	EMPLOYER may deduct the amount so payable by CONTRACTOR, from any amount falling due to the CONTRACTOR or by recovery against the Performance Guarantee. Both CONTRACTOR and EMPLOYER agree that the above percentages of price reduction are genuine pre-estimates of the loss/damage which the EMPLOYER would have suffered on account of delay/breach on the part of the CONTRACTOR and the said amount will be payable on demand without there being any proof of the actual loss/ordamage caused by such breach/delay. A decision of the EMPLOYER in the matter of applicability of price reduction shall be final and binding.	We request that any LD for delay shall be deducted only from the final bill payable to the contractor (as mentioned in Article 6.7, 7.1.4 & 13.4 of the Draft of Agreement), not in the intervening milestone payments as this will affect the contractor's cash flows and can delay the project	RFP conditions would prevail
46.	Section - 1.2.2, Page No. 6 of 261	The Teri sand shall be fed at HUS @180 to 220 tons per hour(tph) and a quantity of 37,500 tons of Teri sand is expected to be fed at HUS per month. The quantity of HUS outputs, i.e. HM concentrate and slime cake, shall vary depending on the content in Teri sand.	From the monthly throughput figures and plant rated feed rate, it appears that Teri sand will not be continuously fed to Plant. On an average, plant shall run 190 hours per month with Teri sand having high slimes content. Please confirm .	RFP conditions would prevail

47.	Section - 1.2.5 Page No.6 of 261	The bidder shall develop flowsheet for the Project and should have a tie-up with an internationally reputed test-work facility having prior expertise in characterization of Titaniferous Minerals along with associated slimes. On award of contract, the Selected Bidder shall carry out test work for the proposed flow sheet to meet the deliverables and get it validated by test work facility. IREL reserves the right to witness their test work.	With reference to S. No. 2 and 3, Flowsheet development and the associated validation test-work will be carried out through a suitably qualified international laboratory having prior expertise in characterization of Titaniferous minerals along with associated slimes. At the pre-bid stage, Bidder will provide names of internationally reputed laboratories with demonstrated expertise in characterization of titaniferous minerals and associated slimes. Upon award of contract, Bidder will engage one of the notified laboratories to perform the required test-work for flowsheet validation.	RFP conditions would prevail.
48.	Page no 11 of 261	The Bidder should have backup letter from an internationally reputed test facility with proven prior expertise in the characterization of Titaniferous Minerals / Mineral Sands, including associated slimes. The successful bidder shall carry out test work after award of contract and get it validated at the said test facility.		
49.	Section - 2.1.3, Page No. 9 of 261	The Bidder shall include in the Bid details of all major items of supply or services that it proposes to sub-contract while the Selected Bidder may sub-contract part of works after approval from IREL.	All major items of supply or services shall be as per preferred makes given in tender	RFP conditions would prevail
50.	Section - 2.4, Sl. D, Page No. 11 of 261	The Bidder should have completed at least 1(One) EPC Project (engineering, procurement/supply, construction, erection and commissioning) on lump-sum turnkey basis in the field of Heavy Mineral sand Industry in India (plant shall be operational as on NIT issue date), involving heavy mineral processing & separation.	In case Bidder take support from a technology provider who meets the technical qualifications which shall remain valid till the completion of the contract. In such case we request you to accept the clause as "The Bidder should have completed at least 1(One) EPC Project (engineering, procurement/supply, construction, erection and commissioning) on lump-sum turnkey basis in the field of Heavy Mineral sand Industry ". This will facilitate to engage a technology provider with similar installation overseas. Please confirm.	RFP conditions would prevail.
51.	Section - 80.5, Page No. 156 of 261	EMD shall be exempted to MSEs and Start-ups as per prevailing guidelines in this regard.	Please confirm whether EMD is exempted for MSE's and Start-ups.	EMD will be relaxed for Startup's as per prevailing guidelines in this regard.

52.	Section - 80.10, Page No. 156 of 261	Traders/ distributors/ sole agent/ Works Contract are excluded from the purview of the Procurement Policy for Micro and small Enterprises, 2012 (as amended time to time).	This clause contradicts the clause 80.5 of the NIT where IREL has mentioned that the EMD shall be exempted. Please provide clarification on the same with reference to both Start-ups and MSE's.	No exemption of EMD for MSE's.
53.	Section 6.2, clause 1.2 , Page No.110 of 261	The bidder shall include in his tender the specifications including equivalent brand names, and quantities and itemized prices for all consumable materials like chemicals, oil, grease required during start-up, commissioning, first fill and consumables required for 1 year. This shall be deemed to be part of the scope.	With reference to S. No. 6 and 7, We understand that Supply of First fill, commissioning spares are only in bidder's scope of supply. Itemized price of 1 years operation and maint spares, consumables like oil, grease, flocculant for thickener operation shall be provided by bidder in tender and supply of the same shall be in scope of IREL.	As specified in section 6.7 in page 110 of 261 and Sl.No 14(e) in page 41 of 261, the O & M spares and supply of flocculant for a period of 1 year falls under the scope of the bidder. The details & specification of all other consumables like oil, grease etc., shall be submitted by the bidder to IREL at the time of commissioning.
54.	S. No. 14 (e), page 41 of 261	Supply of Bio-degradable, environmental friendly Flocculant for 12-months of thickener operation as per technical specification		
55.	Section 6.2,clause 2, , Page No.104 of 261	Performance Guarantee Test (PGT) shall be carried out by the Selected Bidder on completion of integration of the de-sliming system with HUS. Selected Bidder shall demonstrate the performance of de-sliming system at a throughput of 180-220 tph in HUS, through meeting the following process deliverablesi. Free slime content in HUS concentrate should be less than 0.5%ii. Free slime content in HUS Tails should be less than 1.0%	Since spiral concentrators are not within the bidder's scope of supply, the bidder cannot guarantee their performance. Moreover it is important to control the slime content in feed to spiral concentrator because this slime shall affect the spiral concentrator performance. Therefore, we request that the slimes content in the underflow of the final stage desliming cyclone—which falls within the bidder's scope—be finalized as a performance guarantee (PG) parameter and existing PG parameter defined for spiral product needs to be deleted.	RFP Conditions would prevail.
56.	Section 6.7, clause 2.1, Page No.110 of 261	During the 3 months period after commissioning, the bidder shall give training to Engineers, Operators and Technicians on the Operation & Maintenance aspects. In the performance establishment period, the bidder shall depute competent technical person round the clock for Operational assistance (at least one person in every shift).		

57.	Section 6.3, page no. 105 of 261	The Selected Bidder shall complete the commissioning of all proposed installations/circuits & associated facilities in this ToR including 3 months of operation and maintenance assistance within a period of fifteen (15) months from the effective date. Level-II Network shall be updated monthly by the Selected Bidder and detail status/delay analysis reports shall be submitted to IREL along with the Monthly Progress Report	With reference to S. No. 9,10,and 11, Please clarify Whether the 3-month O&M assistance period is intended to commence after completion of PGT, or whether PGT is to be conducted within the 3-month O&M assistance period.	The O&M assistance for a period of 3 months shall commence after completion of PGT.
58.	Article 11, Page 212 of 261	As soon as all works in respect of trial runs are completed and IREL is satisfied that the defects and / or deficiencies, indicated by IREL to the Agency have been rectified, the Agency shall notify to IREL that De-sliming system is fit for Commissioning and performance test.		
59.	Draft Contract, Clause 7.1.1, Page No.208 of 261	The Agency shall, for the performance of its obligations hereunder, provide to IREL, within 15 (fifteen) days of the date of receipt of Final Acceptance Certificate, an irrevocable and unconditional guarantee, for an amount equal to 10% (ten per cent) of the Agreement Value, from a Scheduled Bank in the form set forth in Annexure-II (the "Performance Bank Guarantee"). The Performance Bank Guarantee shall be valid for a period of one year, i.e. until the expiry of the Defects Liability Period specified in Article 22, with an additional claim period of 6 (six) months beyond the validity of Performance Bank Guarantee.	Please consider amount equal to 5% of the agreement value as Performance Bank Guarantee	RFP Conditions would prevail.

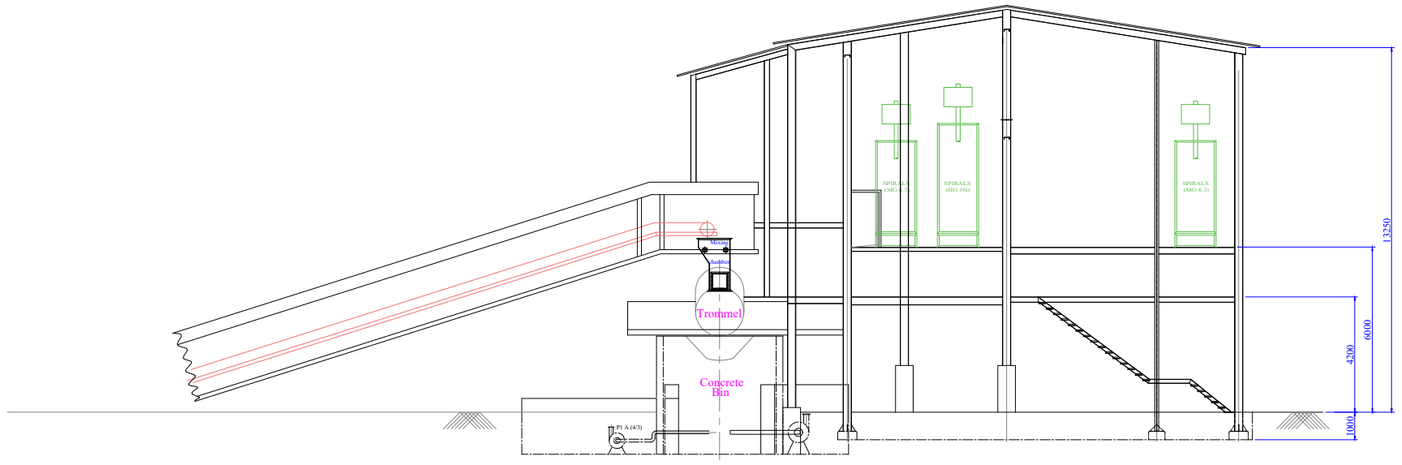
60.	Draft Contract, Clause 6.2, Page No.104 of 261	The filter cake generated shall have moisture content of 30% maximum.	We understand that an automated PLC-based filter press system has been envisaged for dewatering of thickened slimes. However, no laboratory test-work data has been provided in the tender to confirm achievable filtration rates, cycle times, cake moisture, or equipment sizing at this stage. In the absence of such data, we request the following clarifications: 1. **Filteration Test Report** Please share the relevant test work data for the same. Without this, the equipment supplier will not be able to carry out proper equipment selection, and we will be unable to provide any performance guarantee regarding the maximum moisture content of the filtered slime cake. In case you are unable to share test-work data during tender stage, the moisture content of filter cake shall be confirmed on receipt of test result and OEM confirmation after award of contract. 2. **Flexibility in Equipment Selection:** Considering the absence of test-work results and the need to optimize footprint, ancillary load, and operational efficiency, we request confirmation that the bidder may propose a more efficient dewatering technology (other than plate-and-frame filter press) that meets the monthly throughput and performance requirements. 3. **Trommel** type trash screen in place of the linear motion screen specified in the tender	As the design is under the scope of the bidder, they shall decide the flowsheet and equipment after carrying out the test work and its validation by an agency of international repute.
61.	Draft Contract, Clause I. Page No.41 of 261 . S. No. (g)	Automated PLC based Filter press system of suitable capacity for handling the sludge output of thickener, complete with all accessories such as transfer pumps, belt conveyors to transfer the cake to designated area, cleaning system etc as per site conditions.		
62.	Draft Contract, Clause I. Page No.39 of 261	Supply of slurry pumps of required capacity for handling sand slurry at designedpulp density (PD) and a static head as per site condition.	Please confirm whether a standby pump is to be considered for all slurry pumps in the flowsheet.	Standby slurry pumps are not envisaged for slime removal system whereas *standby slurry pumps are required for slime handling system.*
63.	page 56 of 261	Online turbidity meter installed at the discharge of peripheral launder to measure &display clarity of overflow liquor in ppm/NTU with digital display	with required thickener overlfow clarity of <1000 ppm of Slime particles, Do you still need online turbidity meter. Please review this requirement	RFP Conditions would prevail.

64.	page 56 of 261	Make of Thickener/ clarifier and Filter Press: Metso/ FLSMidth/ equivalent	The use of the term "equivalent make" is debatable. It is requested to specify the names of acceptable manufacturers instead of using the word "equivalent."	Refer Corrigendum-III
65.		General	Confirm availability of emergency power for thickener rake operation and agitator operation during power tripping for extended period.	Emergency backup power supply for operation of thickener rake and agitator will be provided by IREL.
66.		General	As the particle size of the slime is very fine (74% of particles below 37 microns), settling test results of the slime tailings are required for the selection of a suitable flocculant and its dosing rate. Please arrange the test result. In case you are unable to share test-work data during tender stage, the overflow clarity of thickener shall be confirmed on receipt of test result and OEM confirmation after award of contract.	Test work, design of flowsheet and selection of equipment falls under the bidder's scope. RFP conditions would prevail.
67.		General	Dismantling/ shifting of any existing structure for installation of filteration system, if required, shall be carried out by IREL. Please confirm	Dismantling/Shifting of any of the existing structures shall fall under the bidder's scope.
68.		General	It is understood that raw water as make-up water shall be provided by Client in pond-2. However, provision of the same is not mentioned in the revised NIT. Please confirm.	It is clarified that water for make-up purpose will be provided at HUS settling pond by IREL. However, the requirement of make-up water shall not exceed 4000m^3/day.
69.		General	Please share proposed Plot Plan, existing Flow Sheet and Plant layout etc for estimation purpose.	Flowsheet, plan and HUS existing layout is enclosed as Annexure-I
70.	Pg 11, Clause 2.4, Sr. No. (b)	Average turnover of the bidder should not be less than INR 13.40 Crores during the last three financial years (2022–23, 2023–24, 2024–25).	Since the proposed project execution and contractual obligations fall in FY 2026–27, we request inclusion of the latest provisional financial statement for FY 2025–26 for financial evaluation. We shall submit provisional financials for FY 2025–26 along with audited balance sheets for FY 2022–23, 2023–24 & 2024–25. Kindly consider average turnover of these four financial years for meeting the eligibility criteria.	RFP Conditions would prevail.

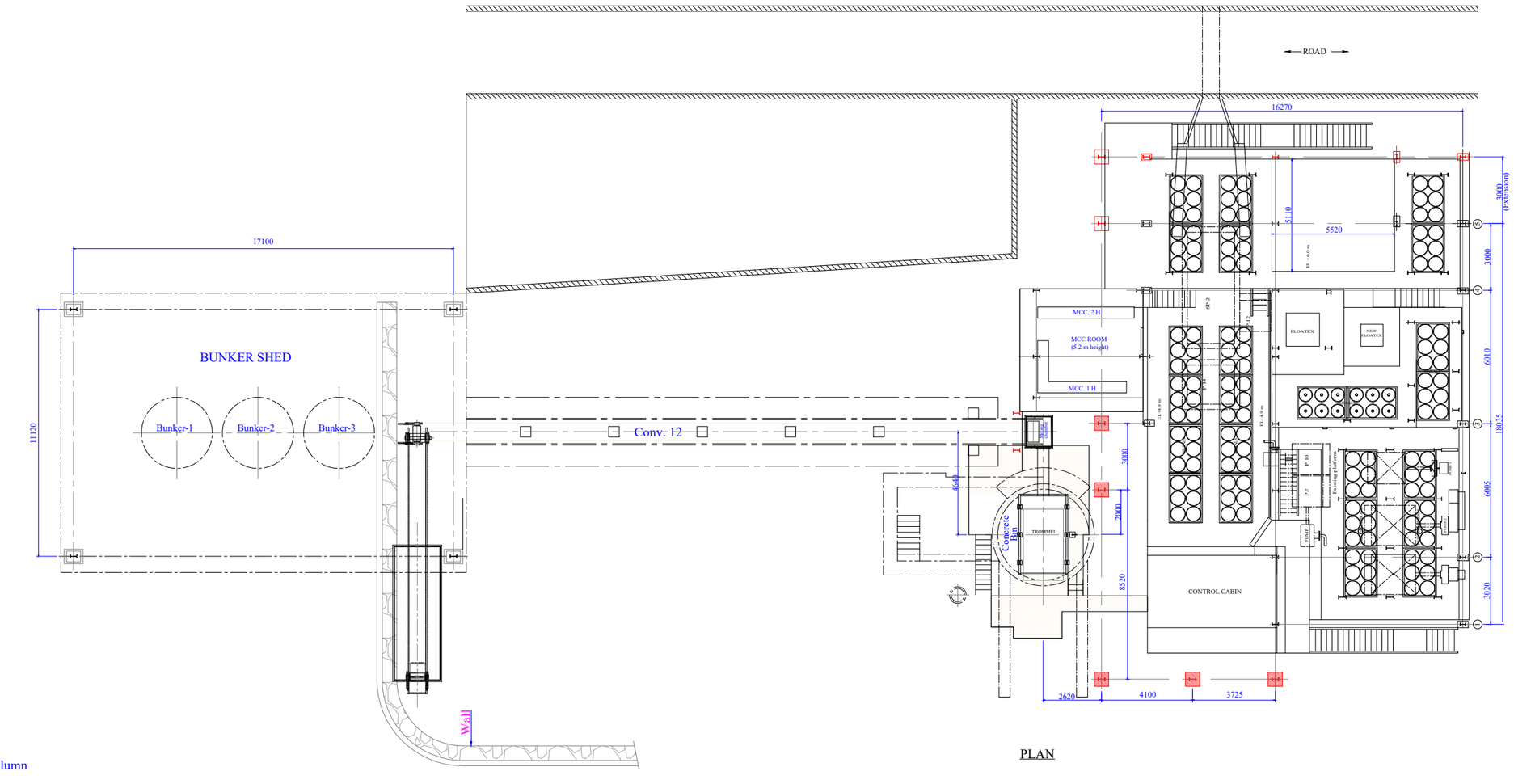
71.	Page 32, Clause 6.1.4, Sr. No. (c)(ii) – Engineering	Submission of OEM spares detailed drawings.	As the equipment is patented and proprietary in nature, OEM suppliers generally provide only part numbers and material of construction (MOC), not detailed engineering drawings. Hence, we request you to kindly consider submission of part numbers and MOC in lieu of detailed drawings.	RFP Conditions would prevail.
72.	Page 12, Clause 2.4.1, Sr. No. 1 – Bidder Evaluation Parameter	The Bidder must have successfully completed EPC Projects in the Heavy mineral sand industry	We have successfully executed two separate EPC Projects from IREL, OSCOM for SMP III & SMP IV at different locations & different product lines to MSP for design, procurement, fabrication, supply, erection, and commissioning, testing & trial run of 200 TPH Trommel systems with skid-based surge bin superstructure. Therefore, we request you to consider the above for meeting the Bid evaluation parameter under Clause 2.4.1 (Sr. No. 1) Both are independent installations and are successfully operating.	RFP conditions would prevail.
73.	Page 12, Clause 2.4.1, Sr. No. 2 – Bidder Evaluation Parameter	The Bidder must have successfully completed Projects in the Heavy mineral sand industry involving Desliming	We have successfully executed projects in the Heavy mineral sands industry involving Desliming operation to IREL, Chavara, MK & OSCOM units for design, fabrication & supply of Hydro Sizers as well as Indian Bureau of Mines, Bangalore & Nagpur for supply of two (2) sets Lab model Hydro Sizers. Therefore, we request you to consider the above for meeting the Bid evaluation parameter under Clause 2.4.1 (Sr. No. 2).	RFP conditions would prevail.
74.	Page 12, clause 2.4.1	The Bidder must score a minimum of 60 marks to be qualified for price bid opening, as per the criteria of QBS-Bidder Evaluation Matrix.	We request you to consider 50 marks as minimum for the Technical qualification, as IREL being the only Heavy mineral sand processing company in India which is in operation.	RFP conditions would prevail.

Annexure-I

Plan and existing equipment Layout

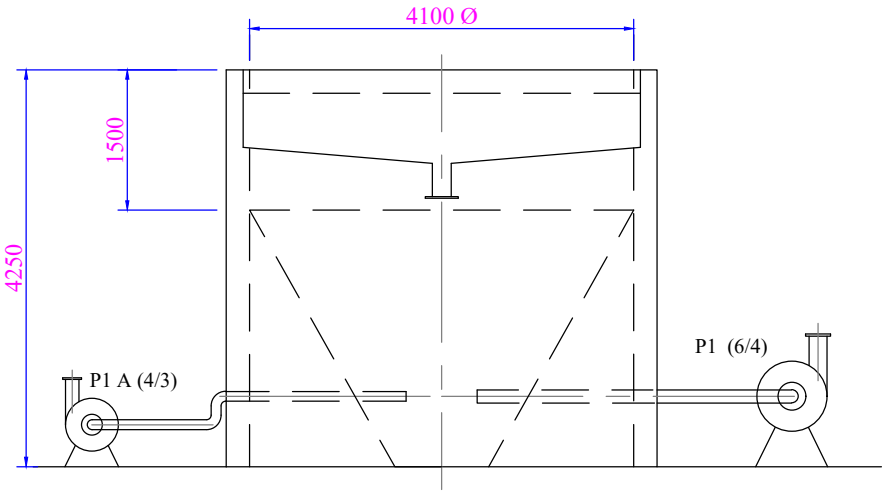


ELEVATION

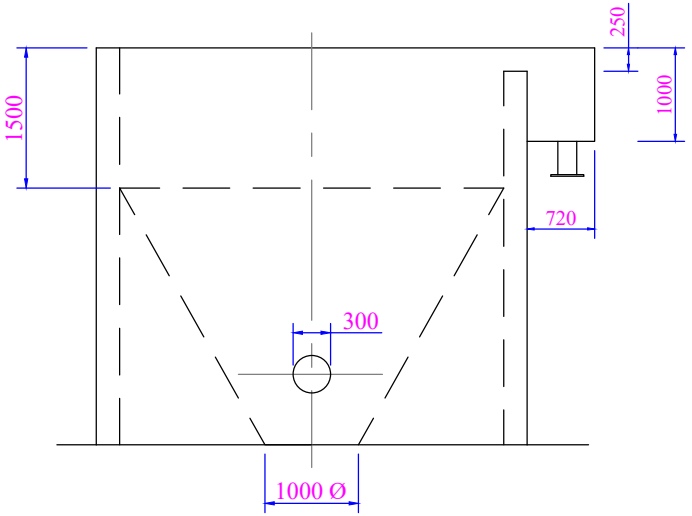


PLAN

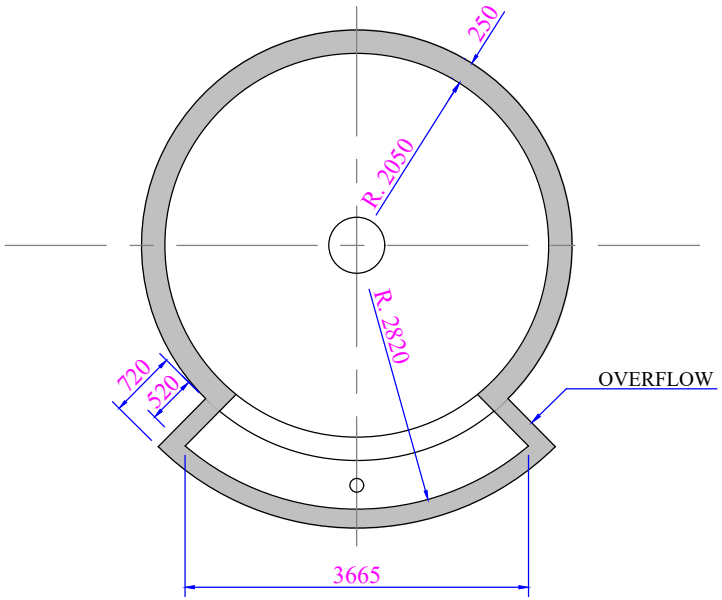
New Column



ELEVATION



SIDE VIEW

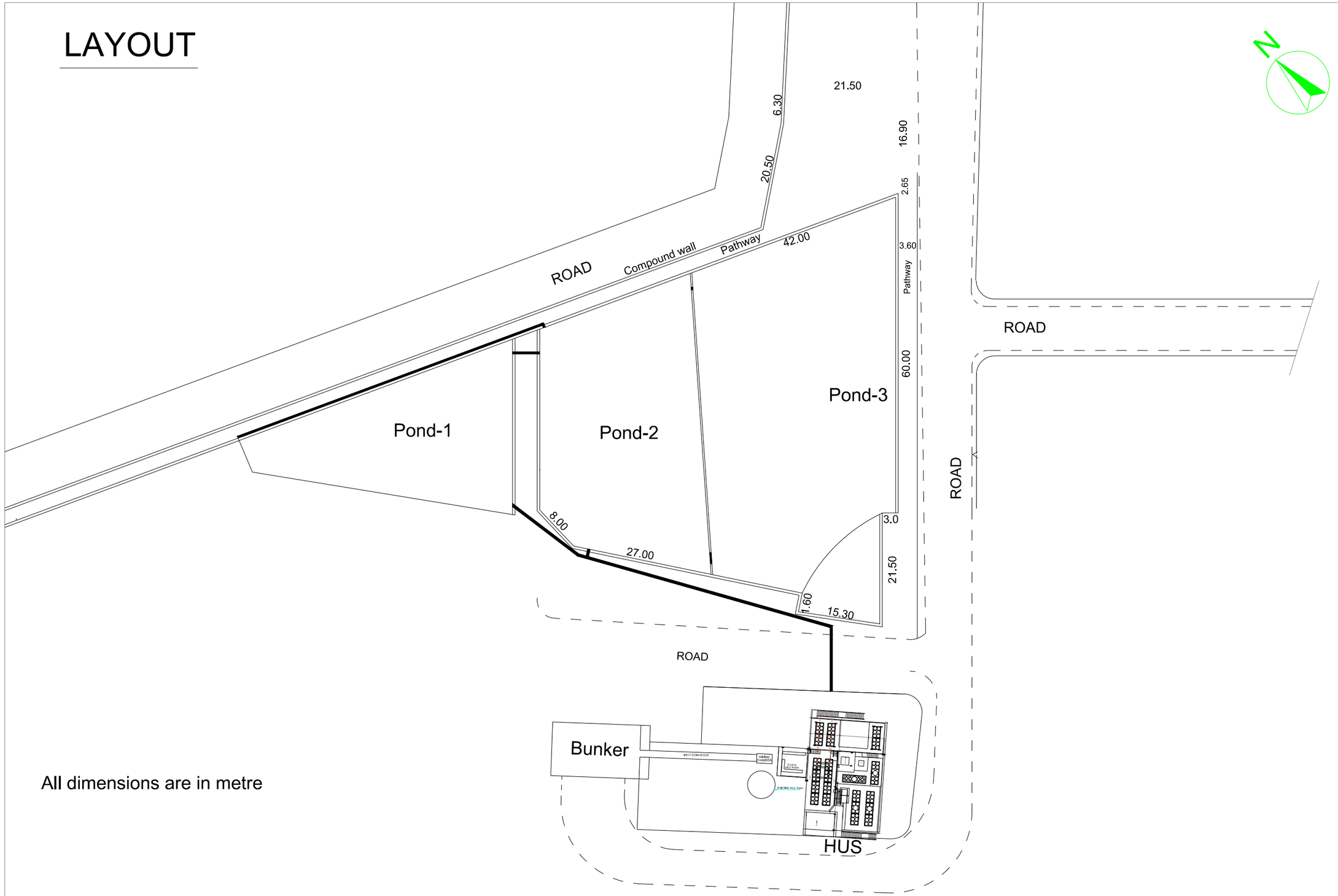


PLAN

RCC Tank

ALL DIMENSIONS ARE IN mm

LAYOUT



All dimensions are in metre

HUS Flow sheet