

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR)
NELLORE**

Tender for Underground Diesel storage tanks for LPSS substation

Bids to be submitted online

**Tender No.: SDSC SHAR/SCF-2(CMG, TEL, MSA, EF&HD, SR, TOMD, CANTEEN,
F&AD, P&S, SCS, SCEND)/SH202500150901 dated 24-12-2025**

A. Tender Details

Tender No : **SDSC SHAR/SCF-2(CMG, TEL, MSA, EF&HD, SR, TOMD, CANTEEN, F&AD, P&S, SCS, SCEND)/SH202500150901**

Tender Date : **24-12-2025**

Tender Classification: **GOODS**

Purchase Entity : **SCF-2(CMG, TEL, MSA, EF&HD, SR, TOMD, CANTEEN, F&AD, P&S, SCS, SCEND)**

Centre : **SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR)**

Underground Diesel storage tanks for LPSS substation

Underground Diesel storage tanks for LPSS substation

GeM Availability Report and Past Transaction Summary GEM/GARPTS/01112025/G13FIL8GDRE9 dated 01.11.2025

A.1 Tender Schedule

Bid Submission Start Date : **24-12-2025 12:00**

Bid Clarification Due Date : **31-12-2025 11:00**

Bid Submission Due Date : **14-01-2026 11:00**

Bid Opening Date : **14-01-2026 11:30**

Price Bid Opening Date : **28-01-2026 11:00**

B. Tender Attachments

Technical Write-up/Drawings

[Document : Technical specifications annexure](#)

Instructions To Vendors

2. STANDARD TERMS & CONDITIONS

1. Tele No.08623-/225174/226043

Fax No.08623-225170/22-5028

e-Mail ID : hps@shar.gov.in, psoscf2@shar.gov.in

1. Instruction to Indigenous Suppliers:

a) Payment Terms shall be as specified in RFP. If not specifically mentioned Our Normal payment term is 100% within 30 days after receipt and acceptance of the item at our site. Please confirm acceptance in your quotation.

b) GST/IGST: Please specify GST percentage, if any, in your offer. Please mention HSN code in your offer.

c) Purchase / Price preference to MSEs : Purchase/Price preference will be applicable to the product reservation admissible to the Micro and Small Enterprises. Purchase/Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006. The participating MSEs in a tender, quoting price within the band of L-1 + 15% may also be allowed to supply a portion of the requirement by bringing down their price to the L-1 price, in a situation where L-1 price is from someone other than an MSE. Such MSEs may be allowed to supply up to 25% of the total tendered value. In case of more than one such eligible MSE, the supply will be shared equally. Micro & Small Enterprises which have technical capability to deliver the goods & Services as per prescribed technical & quality specifications and may not be able to meet the qualification criterion relating to prior experience-prior turnover may be relaxed as per guidelines issued by Ministry of MSMEs & as amended from time to time. Interested vendors shall specifically claim the benefit with supporting documents.

d) Purchase / Price preference to Make-in-India Products: Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid

document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs. 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in-India) order 2017 dated 04.06.2020. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

2. Instruction to Foreign Suppliers:

a) Payment Terms shall be as specified in RFP. If not specifically mentioned Our normal payment term is SIGHT DRAFT, Please confirm acceptance in your offer, if you insist for L/C, and all bank charges shall be to your account. Confirm acceptance.

b) Please specify whether any export clearance is required in case of an order on you.

c) Warranty/Guarantee applicable for the item shall be mentioned in your offer

d) Special Certification for packing Material : as per Plant Quarantine (Regulation of Control into India) Order 2003, Articles packed with packing material of plant origin viz., hay, straw, wood shavings, wood chips, saw dust, wood waste, wooden pallets, Dunn age Mats, wooden packages, coir pith, peat or sphagnum moss etc., will be allowed entry by Customs only with a Phytosanitary Certificate. In case if a Purchase Order, if you propose to us any of the above material for packing such a certificate issued by your local Plant Quarantine Authority shall be furnished.

e) Confirm whether any Export License is required and for which End User Certificate is to be provided by us, in case of an Order on you. (Enclose format for EUC, if applicable).

f) Either Indian Agent on behalf of the foreign principals or the foreign principal directly can quote against this order, but not both. In either case an Indian agent cannot represent more than one principal against the same tender.

g) In case the quote is in INR we prefer to execute the same on HSS Basis and for which Concessional Customs duty as per Notification no.50/2017 Customs dated 30.06.2017, Serial No.539(A) as amended by Notification no.05/2018 dated 25.01.2018. In case the quote is on Indian Rupee (Outside High Sea Sale), the price shall include taxes and duties if any. We shall not be able to provide any duty or IGST tax exemption/concession certificates. If the item quote is of USA make, please quote for all-inclusive price since we prefer to get the item on FOR destination basis.

h) Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with Competent Authority as specified in Office Memorandum no.F.No.6/18/2019-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23rd July 2020. All the conditions mentioned in the above OM is applicable for this tender.

Common terms to Indigenous and foreign suppliers:

3. Warranty : You shall provide applicable warranty for the items offered by you without fail. For the applicable period you shall provide necessary warranty certificate.

4. Performance Bank Guarantee : Towards the performance of the systems during the warranty period you shall submit a performance bank guarantee equivalent to 3% of the order value to cover the warranty period. This PBG shall be interest free and the same shall be returned to you on successful completion of all contractual obligations. The said PBG shall have a further claim period of 2 months.

5. Security Deposit : On acceptance of the order, you shall submit an interest free amount equivalent to 3% of the total contract/order value towards security deposit. This security deposit is collected towards the performance of the Contract. The said Security Deposit shall be submitted either in the form of Bank Guarantee/Demand Draft/FDR receipts duly endorsed in the name of the centre. The Security Deposit will be returned to you on successful completion of the Contractual obligations; failing which it shall be forfeited/adjusted.

6. Offer Validity : Your offer shall be valid for 180 days in case of 2 part / 90 days in case of single part from the date of tender opening. In case you offer validity is less than the mentioned above, the said offer is liable for rejection which may please be noted.

7. Liquidated Damages: If you fail to deliver the ordered items satisfactorily within the time specified or any extension thereof, Liquidated Damage @ 0.5%(zero point five percent) of the order value or part thereof the un-delivered items for each calendar weeks of delay shall be recovered from your bill. However total Liquidated Damage shall not exceed 10% (ten percent) of the order value.

8. FORCE MAJEURE: Should a part or whole work covered under this contract be delayed in delivery/completion of work due to reasons of Force majeure which shall include legal lockouts, strikes, riots, civil commotion, fire, accidents, quarantines, epidemic, acts of God & War, stoppage of deliveries by the Government , freight embargoes etc; the delivery period/completion of work referred to in this Contract shall be extended by a period not in excess of duration of such Force Majeure. The occurrence shall be notified by either party within reasonable time.

9. Offers received through post, courier, fax or email will not be considered.

10. Technical and commercial bid (Part-I) shall not contain any price details. Optional accessories or

other price details, if any shall be uploaded in Supporting documents related to Price Bid, to be opened along with Price Bid.

11. In respect of FIM being issued, the fabricator shall submit Bank Guarantee for equivalent sum compulsorily. In case, submission of Bank Guarantee is not possible, the reasons there for shall be clearly mentioned. However, for such cases the fabricators at their cost shall secure such FIM through Insurance Policy with Director, SDSC SHAR as beneficiary. In case of PSU and Government Organization, Indemnity Bond in lieu of Bank Guarantee is acceptable. Balance FIM/Scrap, if any shall be returned along with the supply of the items. Please confirm acceptance in your quotation.

12. SDSC SHAR shall have the right to place part order among the parties for the items for which they are the lowest.

13. Arbitration: In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only. Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.

14. As per Rule 144 (xi) to GFR any bidder from a country - for any goods/services including consultancy and non consultancy services and turnkey projects -- that shares a land border with India, will have to be registered with a competent authority.

3. Tender- Two part Instructions

1. 1. This requirement can be quoted only through online e-procurement mode using ISRO portal <https://eproc.isro.gov.in>. No manual tender will be considered.

2. The vendors have to get themselves registered in above site to download the tender details. To register in above ISRO portal (<https://eproc.isro.gov.in>) the vendors need to have digital certificate The digital certificate can be obtained from any digital certifying authority like M/s (n)Code solutions; M/s

Tata Consultancy Ltd., M/s Satyam Information System etc.

3. The parties are advised to download the tender and submit the bid on online at least two days prior to tender closing date to avoid last minute network problem. The due date shall not be extended due to network or computer related problems.

4. Tender fee is not applicable.

5. This being a two part tender i.e. Technical & Commercial Part and Price Part, the tenderer should not attach any documents containing Pricing information along with Technical & Commercial Bid. Normally we do not open PART-II (Price bid), if PART-I (Technical Offer) does not meet with our technical specification requirements. Price bid opening date mentioned in the tender document/ Schedule is tentative only. However, price bid opening will be made only after satisfactory completion of Part-I technical bid evaluation and with prior intimation to vendors.

6. Our Tender Enquiry contains technical requirements and specification. The detailed technical specification of your offer should be covered in the technical part. The Technical documents need to be attached online as a single PDF file without any prior information. The tender attachments containing Price details will be treated as unsolicited offers and rejected.

7. The quote should indicate quantity wise unit rate separately which have to be filled online. The Prices are to be mentioned both in figures as well as in words. The taxes, duties etc. are to be calculated and indicated in the column provided in online forms explicitly.

8. Bidders are expected to comply with the technical & commercial and other terms and conditions given in vendor specified terms of this tender. In case of any deviation, the reasons thereof should be clearly specified in the vendor specified terms column.

9. The vendors have to compulsorily submit the compliance statement online otherwise their offer will not be considered for further evaluation. Before entering the compliance statement, vendors are advised to refer the detailed specification provided in the Technical Write-up/ Drawings document. The specification offered by the vendors may also be indicated in the compliance statement wherever necessary.

10. The Technical Specification / Drawing / Product Catalogues / Works carried by vendor / Make offered etc. as a single PDF file without any financial details has to uploaded online mode by the vendor. This being TWO PART TENDER the PDF document uploaded should not contain any commercial/pricing details. If the attached PDF contains any pricing detail the offer will be treated as unsolicited and will be summarily rejected.

11. Original Equipment Manufacturer (OEM) or their representative can submit bid. Indian agents while quoting on behalf of their principals are requested to attach necessary authorization letter from their Principals in their bid.

12. Instructions on Indian Agent (if any):- Bidders are required to provide the following information in respect of their authorized Indian Agent, if any, alongwith technical bid as the same is mandatory as is required for consideration of the bid. Name, Address, Telephone no. , fax no., email of the Indian Agent including the contact person.

13. A letter from the OEM in the current date certifying that the said Indian Agent is their authorized Indian Agent and also indicating the responsibilities/role of the Indian Agent under the proposed purchase. Remuneration/service charges payable to the Indian Agent under the proposed purchase.

14. The offer should be valid for a minimum period of 120 days from the date of tender opening or as

specified in the tender document.

15. Due date & time: Sufficient time has been allotted for Bid submission. Vendors are requested to complete Bid submission well in advance. Last minute requests for due date extension citing server problems etc. will not be entertained. Bids will not be entertained after the due date and time.

17. The vendors may contact +91471 2565454/4574/2527/3753/3289 or eproc@vssc.gov.in for any technical assistance in bid submission.

18. Once the offer is submitted in on line mode by the vendor and bid submission period is over, vendor will not be able to provide revised offer.

19. Request for the extension of the due date will not be considered.

20. Tender which are not prepared in terms of these instructions are liable to be rejected.

21. Based on the response to the e-Public Tender Notice, SDSC SHAR reserves the right to change any milestone date of the tendering activity.

22. SDSC SHAR reserves the right to verify all claims made by the bidder.

23. Tender Opening : The Technical and Commercial Bid [Part-I] will be opened on the specified day mentioned in the schedule and in case any further clarification/ discussion are required, such clarification/discussion shall be called for before opening the Price Bid.

24. The exact date and time of opening of price bid of successful tenderers will be intimated later.

25. Tenderers can participate in the said tender opening to know the details on for which, the representative of the firm shall be duly authorized by Competent Authority. Against proper authorization only such representatives shall be allowed to attend the tender opening. Tenderer Presence is not mandatory to consider the Quote for evaluation.

26. SDSC SHAR, SRIHARIKOTA reserves the right to accept or reject any/or all the tenders in part or full without assigning any reasons thereof.

4. General Instructions to Vendor

1. Instructions to tenderers

Tele No.08623-225174/226043

Fax No.08623-225170/22-5028

e-Mail ID : hps@shar.gov.in, psoscf2@shar.gov.in

1. Interested tenderer s may, at their option, login to <https://eproc.vssc.gov.in> and submit your offers.

2. TENDER FEE IS NOT APPLICABLE.

3. EARNEST MONEY DEPOSIT IS NOT APPLICABLE IF NOT MENTIONED IN THE RFP SPECIFICATION.

4. Indian agents while quoting on behalf of their principals are requested to attach Principals original quote, necessary authorization letter from their Principals, copy of agency agreement etc. in their bid.

5. TWO PART BIDS: In case of Two part tender, price details shall not be uploaded in the Technical & Commercial Bids (Part I), failing to which the bid will be treated as INVALID.
6. The offer should be valid for a minimum period of 180 days for 2 part / 90 days for single part from the date of opening.
7. Due date & time: Sufficient time has been allotted for Bid submission. Vendors are requested to complete Bid submission well in advance. Last minute requests for due date extension citing server problems etc. will not be entertained. Bids will not be entertained after the due date and time.
- 7 (A). Request for the extension of the due date will not be considered.
8. (a) Bid Opening for Public Tender: In case of Public Tender-Two Part Tenders: Technical and Commercial Bids will be opened on the first day specified for Tender opening. Interested vendors can attend the tender opening session to know the bidding details (Bidders presence is not mandatory to consider the quote for evaluation). Price Bid opening of the selected vendors will be scheduled later and it will be intimated to the selected Bidder (s).
- (b) For Limited Tender: Bidders participation is not allowed.
9. Prices are required to be quoted according to the units indicated.
10. Preference will be given to those tenderers offering supplies from ready stocks and on the basis of FOR destination delivery at site.
11. (a) All available technical literature, catalogues and other data in support of the specifications and detail of the items should be furnished as attachments.
- (b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to remove the samples at his own expense.
- (c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensions details are available the same should be indicated in your offer.
- (d) Specifications: Stores offered should strictly conform to our specifications. Deviations, if any, should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples wherever necessary. Test certificates wherever necessary should be attached. Whenever options are called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate response for the same.

12. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of quantity offered and the tenderers shall supply the same at the rates quoted.
13. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
14. The tenderer will be required to furnish a document containing the name of his bankers as well as the latest income-tax clearance certificate duly counter signed by the Income-tax Officer of the Circle concerned under the Seal of his office, if required by the Purchaser.
15. The Purchaser reserves the right to place order on the successful tenderers for additional quantity up to 25% of the quantity offered by them at the rates quoted.
16. Sr. Head, Purchase and Stores, SDSC SHAR SRIHARIKOTA reserves the right to accept or reject any bid in part or full without assigning any reason thereof.
17. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with Competent Authority as specified in Office Memorandum no.F.No.6/18/2019-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23rd July 2020. All the conditions mentioned in the above OM is applicable for this tender.

C. Bid Templates

C.1 Technical Bid - Underground Diesel storage tanks for LPSS substation

1. STORAGE TANK : Fabrication and Supply of 20 KL underground Diesel storage tanks along with associated accessories, fittings, flame proof motors, diesel pipelines etc., as per the detailed specifications enclosed in the annexure

Item specifications for STORAGE TANK : Fabrication and Supply of 20 KL underground Diesel storage tanks along with associated accessories, fittings, flame proof motors, diesel pipelines etc., as per the detailed specifications enclosed in the annexure

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Fabrication and Supply of 20 KL underground Diesel storage tanks along with associated accessories, fittings, flame proof motors, diesel pipelines etc.,	as per the detailed specifications enclosed in the annexure	Yes / No / Explain		

2. STORAGE TANK : Installation, Testing and Commissioning of 20 kilo litres underground Diesel storage tanks for DG sets at LPSS substation as per the specifications in the annexure.

Item specifications for STORAGE TANK : Installation, Testing and Commissioning of 20 kilo litres underground Diesel storage tanks for DG sets at LPSS substation as per the specifications in the annexure.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation , Testing and commissioning of tanks and associated auxiliary works	refer enclosed annexure for detailed specifications	Yes / No / Explain		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Fabrication and supply of 02 Nos., of underground diesel storage tanks of capacity 20 kilo litres each as per IS 10987 with latest amendments	As per the detailed specifications in the tender document	Yes / No / Explain		
2	Fabrication and supply of external structural / fittings etc.	As per the detailed specifications in the Annexure I & II of the tender document	Yes / No / Explain		
3	Supply of diesel pipelines from UG tanks to the existing day tanks and supply of required flame proof pumps with Motors, valves, digital flow meters, strainers etc.,	As per the detailed specifications in the Annexure III of the tender document	Yes / No / Explain		
4	Supply of MCC panel and associated electrical and Earthing works.	As per the detailed specifications in the tender document	Yes / No / Explain		
5	Installation : All types of civil works including site debris clearance, excavations, concrete RCC flooring for UG tanks and etc	As per the detailed specifications in the tender document	Yes / No / Explain		
6	Installation, Testing and complete commissioning of the UG tanks, filling pumps, MCC panels, Earthing and total diesel filling pipeline system till the completion of total works	As per the detailed specifications in the tender document	Yes / No / Explain		

7	Quality assurance plan &TPI	As per the detailed specifications in the tender document	Yes / No / Explain		
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Supporting Documents required from Vendor

- 1. DUly filled price bid format along with price bid (Price Bid Related)**
- 2. Qualification criteria: Party shall have experience in the similar category of installation of diesel/ fuel storage tanks in any govt. or PSUs in the last five years. Work completion certificates and WO/POs and completion certificates shall be submitted**
- 3. Furnish Latest UDYAM Certificate**
- 4. Land Border Declaration as per Rule 144(xi) of GFR**
- 5. MII Local Content Declaration**

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Quality assurance plan & Inspection, Testing and commissioning as per the tender.	Yes / No / Explain	
2	Qualification criteria: Party shall have experience in the similar category of installation of diesel/ fuel storage tanks in any govt. or PSUs in the last five years. Work completion certificates and WO/POs shall be submitted	Yes / No / Explain	
3	Delivery schedule: Five Months from the date of PO. (Four months for supply from the date of PO release and one month for installation and commissioning from the date of site clearance from department). Detailed timeline schedule as per the tender	Yes / No / Explain	
4	Payment terms : a) 90 % of supply cost will be paid within 30 days from the date of receipt and satisfactory acceptance of the material at our site. b) 10 % of the supply cost and 100% installation cost after commissioning of tanks and associated works.	Yes / No / Explain	
5	GST and Other costs if any: Percentage of applicable GST for the quoted items shall be indicated along with SAC/HSN Code.	Yes / No / Explain	
6	DELIVERY TERM: FOR Sriharikota.	Yes / No / Explain	
7	DELIVERY SCHEDULE: Detailed delivery schedule is mentioned at Point No. 24 in Scope of work document.	Yes / No / Explain	
8	LIQUIDATED DAMAGES: In case of delay in total scope of work beyond the stipulated delivery period, Liquidated Damage will be levied @ 1/2% per week or part there of subject to a maximum of 10% of total order value.	Yes / No / Explain	
9	WARRANTY: The warranty period for the Underground diesel storage tanks shall be 12 months from the date of installation or 18 months from the date of supply, whichever is earlier.	Yes / No / Explain	

10	<p>SECURITY DEPOSIT: If the Order value exceeds 5 Lakh, a Bank Guarantee for the faithful execution of the contract / PO for 3% of the order value shall be provided immediately after receipt of the order towards the performance of the contract. The Bank Guarantee should be from a Nationalised / Scheduled Bank in Rs.100 non-judicial stamp paper valid till the completion of scope of work / supply as per the order plus 60 days. This will not carry any interest and shall be returned to you after successful completion of scope of work / supply against your request. In case of non performance/poor performance the Bank Guarantee shall be forfeited. If you are not submitted the BG within the specified period, this order is liable to be cancelled.</p>	Yes / No / Explain	
11	<p>PERFORMANCE BANK GUARANTEE: A Bank Guarantee for 3% of the order value shall be provided along with supply towards the performance of the system. PBG may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a commercial bank executed on Rs.100/- non-judicial stamp paper of appropriate value or online payment in an acceptable form valid till the successful completion of warranty period plus 60 days. This will not carry any interest and shall be returned to you after successful completion of warranty period against your request. In case of non-performance/poor performance the Bank Guarantee shall be forfeited.</p>	Yes / No / Explain	

12	<p>PERFORMANCE SECURITY: In case parties are unable to provide two separate Bank Guarantees, i.e one for Security Deposit (SD) and one for Performance Bank Guarantee (PBG), they can submit a combined BG for SD & PBG for 3% (or as notified by Govt. of India/ISRO from time to time) of the value of Purchase Order as per the format issued by the purchaser. Combined Bank Guarantee may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a Commercial Bank executed on a non-judicial stamp paper of appropriate value or online payment in an acceptable form and shall be valid till the completion of total contractual obligation (i.e., supply period plus warranty period plus 60 days).</p>	Yes / No / Explain	
13	<p>INSURANCE: Being a Govt. of India Dept., Insurance is not required at our cost. Please ensure the safe delivery of the ordered items will proper transport worthy pack.</p>	Yes / No / Explain	
14	<p>VALIDITY OF OFFER: The validity of offers/tenders should be 120 days from the date of opening of tenders. Tenders shorter than offer validity mentioned above will not be considered for evaluation.</p>	Yes / No / Explain	
15	<p>ANNEXURE: SI. No. 19 (d):</p> <p>The valves used for the pipe lines shall be of AUDCO / RAPID CONTROL /EMERALD / HONEYWELL / LEHRY /L&T / CASTLE VALVES Make and shall be of ball valve type only.</p>	Yes / No / Explain	
16	<p>Compliance to technical specifications shall be mentioned.</p>	Yes / No / Explain	
17	<p>Please furnish Contact details i.e. valid E-mail id, Mobile no/ Landline no. etc. for further communication.</p>	Yes / No / Explain	

18	<p>Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 plus 15% (Selected by Buyer) of margin of purchase preference/price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total QUANTITY. Please specify whether you belong to MSE or not. If YES, supporting documents shall be uploaded.</p>	Yes / No / Explain	
19	<p>Make-In-India (MII) Clause: For this procurement, provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industries vide letter No. P-45021/2/2017-PP(BE-II) dated 16.09.2020 & directives related shall be followed. Accordingly, you are requested to indicate the percentage of local content in the material, clearly mentioning the details of location(s) at which value addition is made in line with clause 9 to O.M dated 16.09.2020 referred above. It may be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc.</p>	Yes / No / Explain	

20	The bidder shall provide compliance to Order No. F.No.6/18/2019 PPD dated 23.07.2020 and amendments thereof by Ministry of Finance, Department of Expenditure, Public Procurement Division regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order. In this regard, you shall certify that the bidder entity is not from such a country or, is from such a country, has been registered with the Competent Authority.	Yes / No / Explain	
21	DOCUMENTS SOLICITED FROM VENDOR: Qualification Criteria: Party shall have experience in similar category of installation of diesel/fuel storage tanks in any Govt. or PSU in the last five years. Work Orders/ Purchase Orders and Work Completion certificates shall be submitted.	Yes / No / Explain	
22	FORCE MAJEURE: If at any time during the continuance of the order the performance in whole or part by either party of any obligation under this order shall be prevented or delayed by reasons of any war, hostility, acts of public enemy, civil commotion, sabotage, fire, floods, lightening, epidemic, quarantine restrictions, strikes, go-slow, lockout or acts of God, notice of which is given either party to the other within 21 days from the date of occurrence thereof, neither party shall be reasons of such eventually be entitled to terminate this order nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance.	Yes / No / Explain	

23	<p>ARBITRATION CLAUSE: The Contract shall be interpreted, construed and governed by the Laws in India. In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Work Package Order(s), such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Office of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre - Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only.</p>	Yes / No / Explain	
24	<p>Do you have Unique GeM Seller ID? If YES, provide details. If NO, As per Office Memorandum No 6/9/2020-PPD dated 24/08/2020 of Department of Expenditure, it is mandatory for sellers providing Goods and Services to Central Government Organizations to be registered on GeM and obtain a Unique GeM Seller ID, at the time of Placement of Order/acceptance of contract. Tenderers shall ensure the same.</p>	Yes / No / Explain	
25	Remarks, if any:	Yes / No / Explain	
26	Acceptance of all terms & conditions as per Scope or work.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	STORAGE TANK : Fabrication and Supply of 20 KL underground Diesel storage tanks along with associated accessories, fittings, flame proof motors, diesel pipelines etc., as per the detailed specifications enclosed in the annexure	2.00 Nos.		-		
2	STORAGE TANK : Installation, Testing and Commissioning of 20 kilo litres underground Diesel storage tanks for DG sets at LPSS substation as per the specifications in the annexure.	2.00 Nos.		-		

Common charges (Applicable for all items)

Additional Charges, if any (P&F, Freight etc.)	
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Fabrication, Supply, Installation, Testing and Commissioning of 02 Nos., of 20 kilo litres Under Ground (UG) Diesel storage tanks for DG sets at LPSS substation SDSC SHAR

1. Scope of the work:

The scope of work shall include the following but not limited to

Supply of items:

- a) Fabrication and supply of **02 Nos.**, of underground diesel storage tanks of capacity **20 kilo litres** each as per IS 10987 with latest amendments.
- b) Fabrication and supply of external structural / fittings etc. as required and as per the specifications and drawings indicated in **Annexure I & II.**
- c) Supply of diesel pipelines from UG tanks to the existing day tanks and supply of required flame proof pumps with Motors, valves, analog flow meters, strainers etc., (refer **Annexure III** for the details)
- d) Supply of MCC panel and associated electrical and Earthing works as required and as per the specifications.

Installation works

- e) All types of civil works including site debris clearance, excavations, concrete RCC flooring for UG tanks, sand level filling to required height, providing RCC concrete pedestals for motors, pipelines and Fencing with dwarf wall for UG tanks area as required towards completion of the works.
- f) Installation, Testing and complete commissioning of the UG tanks, filling pumps, MCC panels, Earthing and pipeline systems till the first diesel filling by the department including site preparatory works like levelling, vegetation removal etc., is included in the scope of this work.
- g) Any other minor works required at day tanks of DG sets towards connecting with the UG tanks.

Third Party Inspection Agency TPIA

- h) The party should hire third party inspection agency (TPIA) like TPL / MECCON / TUV / BVQI, which are accredited under "NABL accredited bodies as per requirement of ISO/IEC 17020 as Type "A" in QCI's NABL website.

2. Tentative drawing of **20 kilo litres tank** is enclosed in **Annexure I(a)**. The Supplier shall design the Tanks as per IS 10987 and prepare detailed Fabrication Drawings. Drawings shall be sent to the Purchaser & Third Party Inspection Agency (TPIA) for approval. Fabrication shall be taken up only after the final approval from the purchaser & TPIA.

3. QAP is furnished in **Annexure-I** for reference. However, detailed quality assurance plan to be followed during fabrication and testing, shall be submitted to the Purchaser and TPIA for approval prior to the commencement of fabrication.

4. **Fabrication:** Steel Plates required for Shell, End Plates, Reinforcement Pads, Manhole Cover/ Necks etc.

- a) Steel plates for the fabrication of UG tanks shall conform to IS 2062, and of tested quality. (Minimum Thickness of plate shall be **6mm for Shell & 10mm for Dish end**).
- b) The steel plates are to be procured from manufactures or their authorized dealers of **SAIL / TISCO / ESSAR / LLOYDS / ISPAT / JINDAL SALEM STEEL**. The party shall furnish the invoices & test certificates confirming to Indian standards from the manufacturer / dealer for steel plates procured.

5. **Fittings:** Required fittings shall be supplied by the party as per drawing.

- a) All Pipes & nozzles shall conform to IS 1239, Forged Quality heavy class.

- b) Forged SORF Flanges used for nozzle connections will be of plate type IS 2062, Gr.B suitable for class 150 pound per Sq. Inch with serration and dimensions as per ANSI B 16.5
 - c) All other fittings and accessories as per drawing shall conform to relevant spec mentioned in the drawings.
 - d) The vendor will be asked to furnish the invoices & test certificates for purchase of Fittings for confirming to Indian standards/ANSI.
 - e) Following fittings to be supplied along with each Tank:
 - i. Suction pipe, Purported pipe and fill pipe as per drawings
 - ii. Aluminum Dip Cap with stopper
 - iii. Aluminum Fill cap
 - iv. Aluminum Dip rod
 - v. 02x 200g of diesel level finding paste and water finding paste.
6. All components of the U/G Tanks including outer surface of Tanks, shall be cleaned with wire brush and two coats of red oxide zinc chromate primer shall be applied on all components outside of tank and outer surface of tank before dispatch from the shop. Paint shall be of reputed make viz., CDC Carboline/Berger/Asian paints/Nerolac.
 7. The approximate coating capacity of the primer is about 11 to 13 m²/l of coat or 160micron DFT whichever is highest.
 8. **Doping:** After the application of primer coat, two coats of hot 30/40 Grade bitumen shall be applied resulting in overall coating thickness of 3.2mm.
 9. The 30/40 Grade bitumen shall be heated to the required temperature as recommended by the manufacturer and application of bitumen shall be done in such a way as to give the appearance of a rough cast plaster and this can be obtained by dabbing only.
 10. Doping shall be taken only after testing of tank and after all the DM water is emptied
 11. However, doping can be carried out on the outside surface of tanks which comes in contact with the RCC or foundation excluding weld joints which can be completed after testing.
 12. All the interior surfaces of the tank shall be cleaned to remove all rust and foreign matter like dirt, grease, oil etc.
 13. The internal surface shall be pickled and passivated as per the procedure given in **Annexure-IV**
 14. **Plate cutting, forming and assembling:**
 - a) Plates are to be cut to sizes and shaped by machine flame cutting and/or machining. All the plate edges after cutting and before carrying out further work upon them shall be machined or ground to proper shape whenever necessary to remove the effect of previous shearing, chipping or flame cutting. When flame cutting is carried out, the cut edge shall be ground properly. Single wedge should be made for plate thickness 8mm and above before welding.
 - b) A gap of 1.5 mm to 3 mm shall be kept as per IS 10987 for all butt weld joints.
 - c) Plates for shell section are to be formed to the required shape by any process that will not impair the quality of the material. Forming by hammering with or without local heating is not to be carried out.
 - d) Care is to be taken to ensure that the weld preparation is correctly profiled. After edges of the plates have been prepared for welding, they are to be carefully examined for flaws, cracks, laminations, slag inclusions or other defects.
 - e) Nozzles shall be flush and ground smooth with internal surfaces. Nozzles to shell attachment design shall be according to code requirements.
 - f) The angle iron ring welded on Manhole nozzle should be made of single piece.
 - g) Chipping, unless followed by grinding is not permitted except where the entire chipped surface will be fused during subsequent welding.

- h) In order to prevent damage to the surface of the construction material, care shall be taken while removing the temporary cleats etc. After removal of such items, any remaining weld metal etc. shall be ground flush with the surface of the parent metal. In case of any depression and pits on the surface due to cleats removal, surface is required to be filled up with weld metal and grind the surface to flush with parent metal.
- i) Each section / Shell ring of the tank should contain only one longitudinal weld. End plates with more than one weld joint are not acceptable.
- j) Only one no. horizontal joint is allowed in the end plates and no vertical joints will be allowed in the end plates.
- k) Manhole pad plate to be made out of single plate as per drawing.
- l) Longitudinal Joints in Shell Plates shall not appear below central line of Tanks.
- m) Two nos of earth bosses of appropriate sizes shall be provided for the end plates.

15. **Welding**

- a) All welding including temporary attachments welding shall be done in accordance with good engineering practice and as guided by Third Party Inspection Agency (TPIA).
- b) ISI marked electrode of required size confirming to IS 814 to be used for all fabrication & welding works.
- c) The coated electrodes shall be pre-heated to remove the moisture in the coating before commencement of welding.
- d) The plates are to be assembled and retained in position for welding by some suitable methods.
- e) Tack welds, where used, are to be removed so that they do not become part of the main seam.
- f) Corrections of irregularities are not to be carried out by hammering.
- g) All welding shall be done by metal arc process (SMAW) by using electrodes of ISI mark confirming to IS-814. All surfaces for welding are to be thoroughly cleaned of scale, rust, oil or other foreign matter down to a clean surface for a distance of at least 12.5 mm from welding edge.
- h) All shell welds shall be butt welds with full penetration and minimum of double inside and outside beads. The end plate will be welded to the shell with two runs of fillet weld both from inside and outside (as shown in the drawing). However, one extra run of welding should be provided from outside, along the periphery of end plates, in addition to the said fillet weld.
- i) Single pass welds are not permitted. Undercutting, overlapping at the toe or bad profile shall be avoided. While welding the metal at the bottom of the first side is to be removed by grinding, chipping, machining or other approved methods so as to provide clean sound metal to deposit the subsequent welds.
- j) Each run of weld metal is to be thoroughly cleaned and all slag removed before the next run is deposited.
- k) If welding has been stopped for any reason, care is to be taken in restarting to ensure that the previously deposited weld metal is thoroughly cleaned and free from slag and that there is proper penetration into the plates and the previously deposited weld metal.
- l) Fillet welds of thickness as mentioned in the drawings are to be made so as to ensure proper fusion and penetration of the weld metal.
- m) The welding will be full-run-welds at all joints, both internally and externally. All slag shall be cleared with wire brushes. Before the final assembly of tank, all dust, welding rod ends, slag, scales shall be removed from inside as well as outside the tank.

- n) In multi-layer welding, each layer of weld metal shall be thoroughly cleaned of slag and other deposits before the next layer run is applied. All completed welds shall be de-slugged, brushed and thoroughly cleaned before offering the tanks for Grey Inspection. The reverse side of double welded butt joint shall be back chipped ground before the application of the first run of welding to this side, in a manner which will leave the exposed surface accessible and satisfactory for the fusion of the weld metal to be added.
- o) Joints shall be staggered to ensure no + joints formed on the shell.
- p) There shall be no undercutting of the base metal.
- q) The welding procedure qualification and welder performance qualification shall be carried out prior to fabrication of tank. Only qualified welders as specified in IS-9595 and IS-817 shall be employed for the fabrication of tank.
- r) The fabricator at the beginning of the first tank shall qualify the welder pre-qualification procedure and consumables to be used for fabrication of UG tank by TPIA.

16. **Inspection and Testing**

- a) The party should hire third party inspection agency (TPIA) like TPL / MECCON / TUV / BVQI etc., which are accredited under "NABL accredited bodies as per requirement of ISO/IEC 17020 as Type "A" in QCI's NABL website.
- b) TPIA shall verify the drawings and QAPs which are meeting
- c) TPIA shall verify/review the Raw material test certificates, fabrication of tanks, testing of tanks & installation as per IS 10987.
- d) The price quoted shall be **inclusive** of TPIA charges. Department may also depute their representatives for inspection along with TPIA agency.
- e) All the weld joints (both root and final pass) shall be qualified with Dye Penetrant Test.
- f) The DP Test material is in the scope of the supplier.
- g) Radiography shall be carried out for 10% weld joints using X-ray/Gamma ray with 2-2T sensitivity. The radiography films shall be submitted to the purchaser during inspection.
- h) Retake and repairs of weld joints wherever called for shall be at the cost of supplier.
- i) All the necessary tools, gauges and instruments required for the inspection shall be provided by the manufacturer during inspection.
- j) The tanks shall be subjected to hydraulic pressure test at 0.5 bar(g) using DM water and checked for any leaks for a duration of 30 minutes hold. No pressure drop is acceptable for the duration of 30 minutes.
- k) Potable water is not allowed for the test and the test report of the DM water shall be submitted to the TPI and purchaser during the hydraulic test.
- l) All the pressure gauges required for the test shall be provided by the manufacturer and calibration certificates of the gauges shall be provided for review.
- m) The tank shall be calibrated with DM water mathematically accordance with IS-2009. The calibration table shall show the product volume for every 5mm of filling height and shall be certified by the TPI. The report will be reviewed by the purchaser during inspection.
- n) The tank shall be dried with moisture free air after the water calibration and till the dew point of the tank reaches -40°C.
- o) The dew point shall be measured two times with a time interval of minimum 2 hrs between the measurement.
- p) The second measurement of dew point shall be taken by rotating the tank after the first measurement.

17. **Transportation**

- a) All items of the fabricated UG tank fitting shall be carefully packed so as not to be damaged in anyway during transit. All items such as dip cap, fill cap, aluminum dip rod shall be packed separately.

- b) Each Bag shall be provided with metal tag, Bags shall be packed in strong wooden crates reinforced and bound with steel strips.
- c) Manholes and nozzles shall be packed carefully. Manhole covers shall be bolted in place. Nozzle flanges shall be suitably protected to prevent damage during transport. Machined face of the flanges shall be coated with varnish.
- d) All items shall be marked as indicated in the above. The identification no. of the tank and items shall be shown while delivering at site in form of Packing Slip.
- e) Flanges at manhole cover should be suitably matched marked so that the dip pipe orientation directly over the pad plate at the tank bottom.
- f) Necessary Road Permits required for transporting UG tank and accessories etc. shall be in the scope of the party only.
- g) Safe transportation of Tank from fabrication facility to SDSC SHAR and Unloading of tanks at our site is in the scope of party. Whereas necessary material handling for **unloading will be supported by department on chargeable basis subjected to availability**. Necessary man power required for unloading shall be arranged by party only. Rates quoted shall be inclusive of all above.

18. **Civil Works**

- a) All associated civil works and installation of tanks at specified location as per the drawings and as per IS 10987 shall be carried out. Typical layout is enclosed in **Annexure II**.
- b) Jungle clearance, Earth excavation for foundation of plinth in all kind of soils including dressing of sides, providing and laying of cement concrete using 20mm nominal sizing graded hard granite stones aggregate including compaction, finishing top surface level curing and complete as required.
- c) Foundation and construction of plinth / sub base to floors with RCC as specified in the annexure drawings and as required and as per IOCL standards shall be made at site.
- d) Foundation, footing, bases of columns mass concreting and plinth beams flooring as required.
- e) Location of the tanks is falling near water staggered area. Hence level filling shall also be carried out with hard soil at site to a maximum height of 1m to 1.5m above the approach road level.
- f) Supply and providing GI chain link of size 50x50x10gx10g and fencing tied to post 6mm MS rod using GI bonding wire including providing 10G GI wire horizontally at top and bottom above the skirt level.
- g) supply and providing approach Gate of apprx. 3m width (ie to move IOCL tanker through gates) with associated all fabrication, welding, locking provision and installation works as required.
- h) Providing and filling of top portion with hard grade stones obtained from approved quarry and filled in surround the plinth to avoid water logging at the panel areas.
- i) Kerb wall surrounding the tanks area other than fencing shall also be constructed at site as per installation schematics.
- j) Required approach pathway from nearest road to tank inlet pipeline shall also be carried out towards unloading the diesel to the new tanks as required.
- k) Approach steps for MCC panel entry shall also be constructed at site with brick and concrete as required and directed by site in charge.
- l) Danger boards, paddle locks and warning symbols shall be provided at yards towards operational safety as decided by department during installation works.
- m) Typical layout of the fencing requirements is shown below. However actual dimensions shall be considered based on the size of the panels and transformer.

19. **Supply and installation of motors and associated pipeline works at site**

- a) Supply and installation and commissioning of 02 Nos., of flame proof motors with pumps as per the specifications below.
 - i. Motor details : **5HP, 415V, 50HZ,3 phase, Flame proof& IP55 class**
 - ii. Pump details : **1440 rpm, 110 LPM, 10m discharge head** or better as required for lifting and moving diesel to 100m distance.
 - iii. **25x25**diacast iron body and external gear type or better.
 - iv. Suitable for pumping diesel
- b) Flame proof certificates of motors shall be submitted.
- c) Necessary 01 inch (25mm) heavy gauge MS pipes shall be laid from UG tanks to already available DG set day tanks as per the schematics given in **Annexure III**.(day tanks are not included in scope – day tanks are already available in the site).
- d) The valves used for the pipe lines shall be **of AUDCO make / Equivalent approved make and shall be of ball valve type** only.
- e) Analog type flow meters with mechanical counter of reputed make (Kent) as decided by the department shall be supplied and installed in the pipe lines as shown in the Annexure III. The minimum specifications for the flow meter are
 - i. Flow rate : 110 LPM
 - ii. Nominal bore size of diesel pipe : 25 mm / suitable
 - iii. Application : HSD (High Speed Diesel)
 - iv. Pressure : 2.0 bar.
 - v. Temperature withstand up to : 150 Degree Centigrade
 - vi. Accuracy of : +/- 5 %
 - vii. Output : Totalization of flow
 - viii. Make : Kent oil Meters
- f) Necessary hydro tests & other tests towards complete commissioning shall be carried out at site as per IS 10987.**Hydro test shall be carried out for UG tanks including Pipelines.**
- g) After hydro tests, removal of water from UG tanks, cleaning and drying of tanks internal surface as per IS 10987 and as required shall also be carried out.
- h) Total commissioning of the tanks scope ends with diesel filling by dept to the UG tanks & further filling of diesel to day tanks after complete acceptance of the systems by department.

20. **Qualification criteria:**

Party shall have experience in the similar category of work ie., installing and commissioning of diesel/ fuel storage tanks in any govt. organization or PSUs in the last five years. Necessary work experience certificates and WO/POs and satisfactory completion certificates shall be submitted. Offers from the parties not satisfying these criteria will be summarily rejected.

21. **Payment terms:**

- a) **90 %** of supply cost will be paid within 30 days from the date of receipt and satisfactory acceptance of the material at our site.
- b) **10 %** of the supply cost and 100% installation cost after commissioning of tanks and associated works.

22. **Other terms and conditions**

- a) All the fabrication, supply and installation shall be carried out as per the relevant Indian standards and specifications of this tender document. Where ever conflict occurs between standards and this tender specifications, superior/ stringent specifications will apply.

- b) The QAP given in the annexure I is indicative and party shall prepare detailed QAP meeting all the requirements of this Tender meeting relevant IS standards and QAP shall be approved by department and TPIA.
- c) Party shall submit the two sets of hard copies of handing over dossier all drawings, material certificates, inspection documents, TPIA approvals, calibration certificates, tanks blue prints, etc. as required.
- d) Party shall sign in each page of this document along with seal and upload along with technical bid as a token of acceptance to all technical specifications of the tender. Otherwise their offer will be rejected.
- e) The drawings are mentioned in the Annexures are indicative However, the party shall submit the detailed drawings for approval to TPIA agency as well as from the department.
- f) Party shall submit duly filled price bid format as per the **Annexure V** along with the price bid. The prices enormously mentioned in the technical bid will be rejected

23. **Sequence of Activities:**

- a) Identification of raw material.
- b) Cutting of plates to the required dimensions.
- c) Bending of plates.
- d) Fabrication of tank along with man hole, nozzles and other accessories.
- e) DP test of all the weld joints.
- f) Radiography of 10% of butt weld joints
- g) Hydrotest of tanks at **0.5 bar** Factory.
- h) Water calibration for level vs volume.
- i) Pickling & passivation of tank, Drying and internal cleanliness of tanks.
- j) External painting of tank with primer.
- k) Bitumen coating for the tank.
- l) Transportation to SDSC SHAR and erection at site.
- m) Civil works at site as per specifications.
- n) Second Bitumen coating for the tank if required at site.
- o) Pipelines & installations of tanks as per schematic
- p) Providing Fencing with dwarf wall & Stone granite filling where ever required
- q) Hydro test to total pipe lines & Tanks (Integrated) after complete installation works.
- r) Removal of water after hydro test from UG tanks as required
- s) Diesel filling by dept to the UG tanks & further filling of diesel within one week.

24. **Delivery schedule: Five Months from the date of PO. (Four months for supply from the date of PO release and one month for installation and commissioning from the date of site clearance from department).** Detailed timeline schedule is as follows

#	Item Description	Delivery schedule
	Placement of PO	T
	Submission of drawings as per the PO specifications	T+2 weeks --- (a)
	Approval from department & TPIA Department and TPIA shall approve the drawings within 02 weeks from the date of receipt of drawings. This duration includes compliance to modifications / suggestions offered by the Dept., if any.	02 weeks from (a) T+4 weeks --- (b)

#	Item Description	Delivery schedule
	Fabrication of the tanks, fittings etc., as per the approved drawings at factory.	09 weeks from (b) T+13 weeks --- (c)
	Pre-delivery inspection by department CLIP Members & TPI agency within a week from the date of inspection call from party. At least two weeks prior intimation shall be given to department towards FAT inspection.	02 weeks from (c) T+15 weeks --- (d)
	Transit of tanks and other fittings: tanks shall be delivered within 01 week from the date of dispatch clearance accorded by the department after inspection call and completion of required modifications suggested during inspection call.	01 weeks from (d) T+16 weeks
	Supply of total items as per the PO specifications	16 weeks
	Date of site clearance by the department	T ₁
	Installation testing and complete commissioning of the total system	T ₁ + 4 weeks
	Completion of total PO	20 Weeks (Five Months)

Quality Assurance Plan (QAP)

#	Characteristics / type of check	Ref. Document	Method of check	Quantum of check		
				Manufacturer QC	Third party	Purchaser
1.	Identification of plate material with Mill test certificates	As per PO	Review	100% H	100% R	R
2.	Review of fabrication drawings and Design as per IS 10987	As per PO/ drawing	as per code	100% H	100% R	R
3.	Review of welding procedure & Qualification	AWS	Review	100% H	100% R	R
4.	Checking of root run & final weld by dye Penetrant test (butt welds)	As per PO	Visual	100% W	100% R	R
5.	Marking of nozzle orientation	As per drawing	Location of nozzle	100% W	100% W	R
6.	Dye Penetrant test on all fillet welds.	As per PO	Visual	100% W	100% R/W	R
7.	Visual & Dimensional inspection	As per approved drawing	Dimension	100% W	100% W	R
8.	Shell rolling, weld fit up	As per std	Visual	100% W	100% W	R
9.	Circularity of shells after rolling	As per std	Visual	100% W	100% W	R
10.	Fit up of nozzles, saddles and supports and welding	As per std	Visual	100% W	100% W	R
11.	Evaluation of radiography films of 10% of butt welds	As per PO	Film evaluation	100% W	100% R	R
12.	Mechanical cleaning and buffing	As per PO	Visual	100% W	100% R	W/R
13.	Hydraulic test of total vessel with DM water	As per PO	Pressure hold method	100% W	100% W	W
14.	Mechanical calibration of the tank with DM water	As per PO	Water filling	100% W	100% W	R/W
15.	Pickling and passivation of tank internal & external surfaces.	As per PO	Visual	100% W	100% W	R
16.	Cleaning and drying of the tank before dispatch	As per PO	Visual	100% W	100% W	R
17.	Stamping of name plate and issue of certificates	As per PO	Visual	100% R	100% W	R
18.	Painting of all external surfaces	As per PO	Measurement of DFT	100% H	100% R	R
19.	Production master file	As per PO	Document	100% R	--	R
20.	Integrated Hydro test (Tanks with pipelines)	As per PO	Pressure hold test	100% W	100% W	W

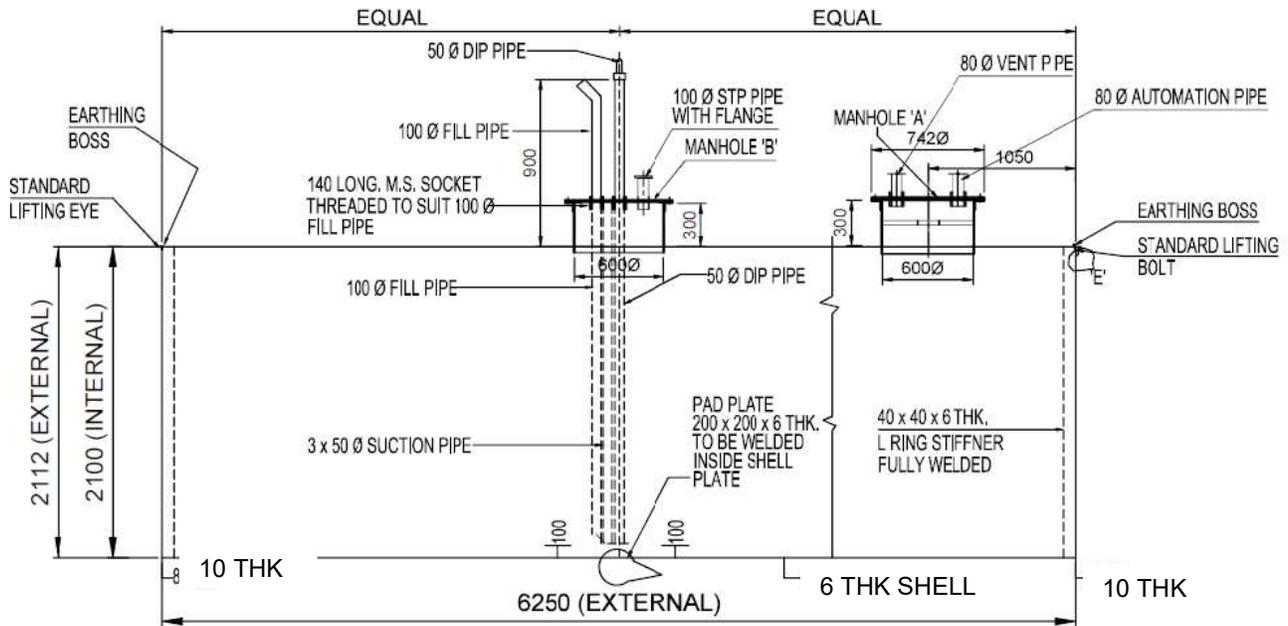
Legend: R – Review, W – Witness, H – Hold.

Note: The purchaser has rights to participate in the Inspection at any stage of fabrication & the bidder shall intimate the work progress periodically.

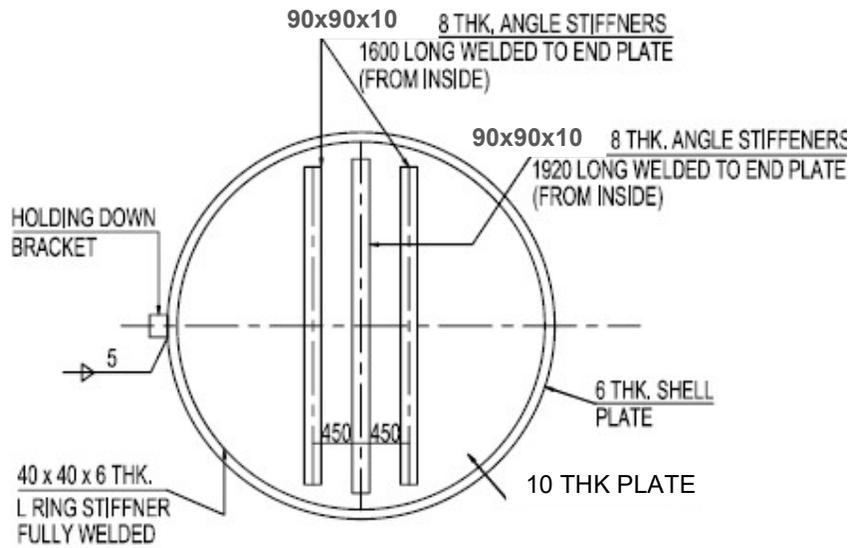
10% Evaluation of radiography films shall be carried out by third party inspection agency.

The above is only indicative and any other QAP as per Indian Standards shall also be carried out.

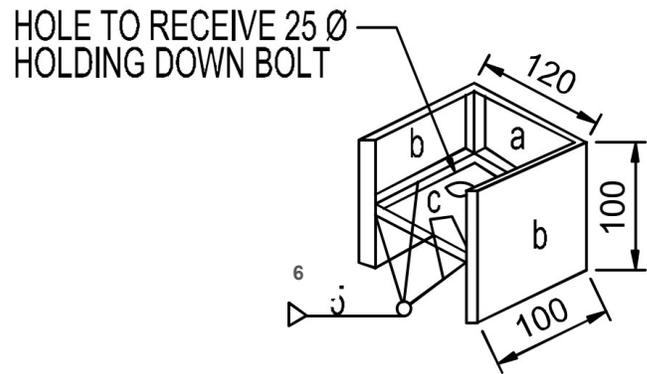
Drawings of 20 kilo litres fabrication with two man holes and associated fitting works



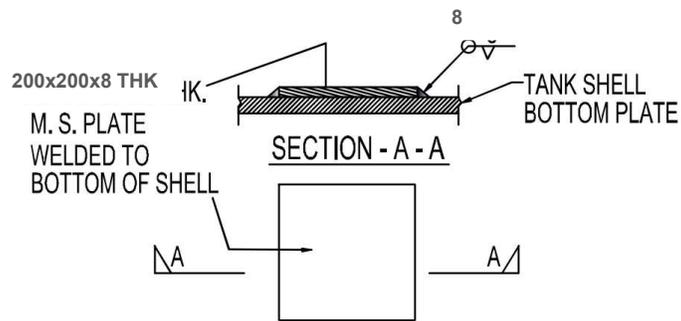
LONGITUDINAL PART & ELEVATION PART SECTION



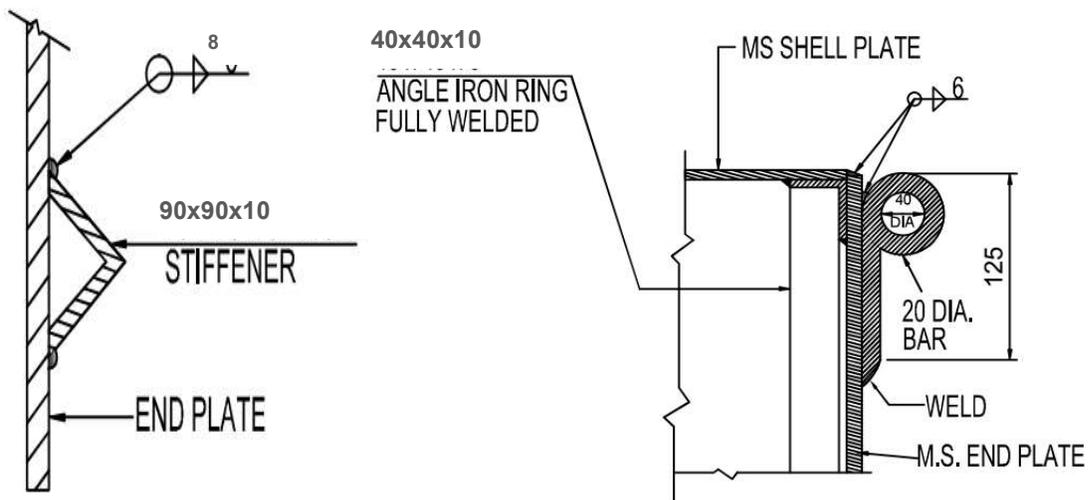
PART END ELEVATION & PART CROSS SECTION



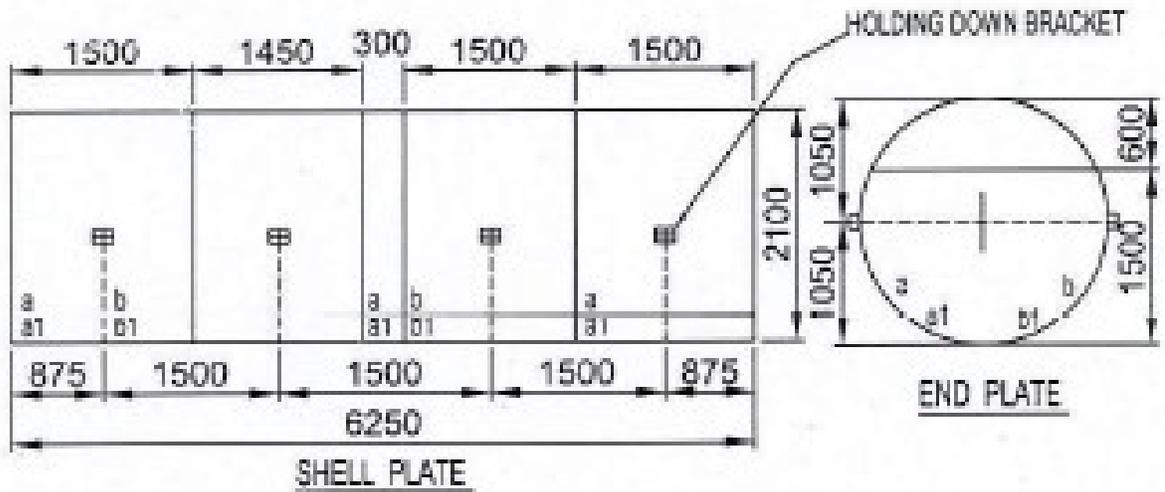
ISOMETRIC VIEW of HOLDING DOWN BRACKET



PLAN DETAILS AT "X" POINT



DETAILS OF STIFFNERS FOR END PLATE and LIFTING EYE AT "E" & ANGLE RING

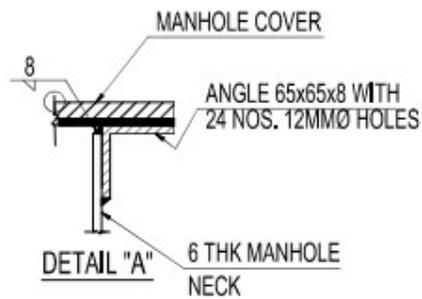
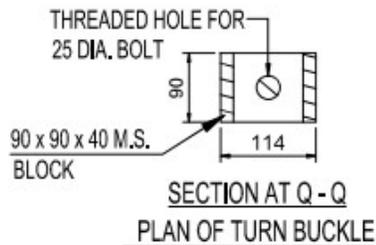
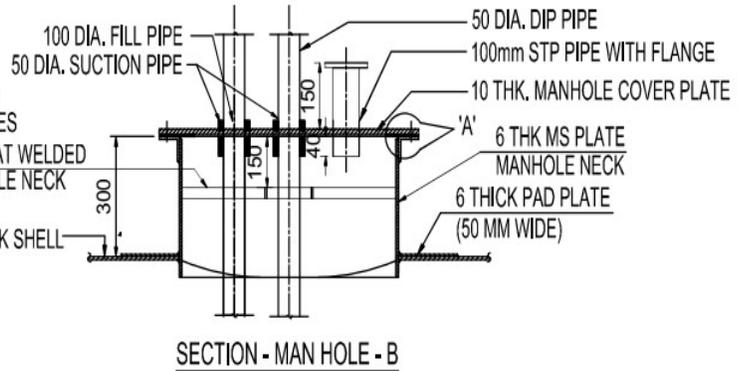
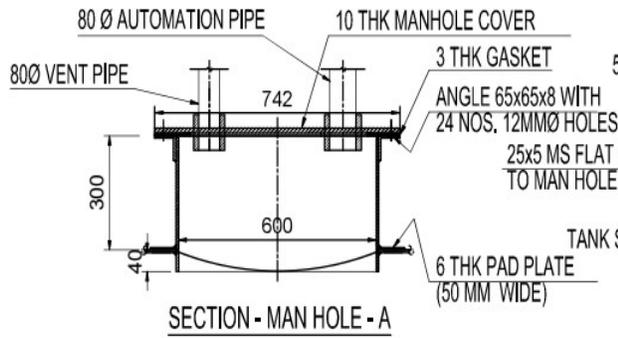
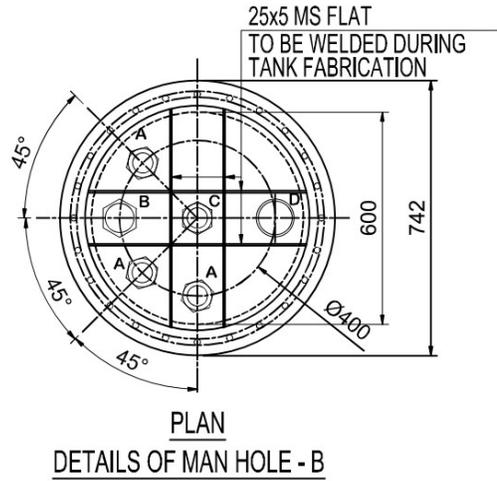
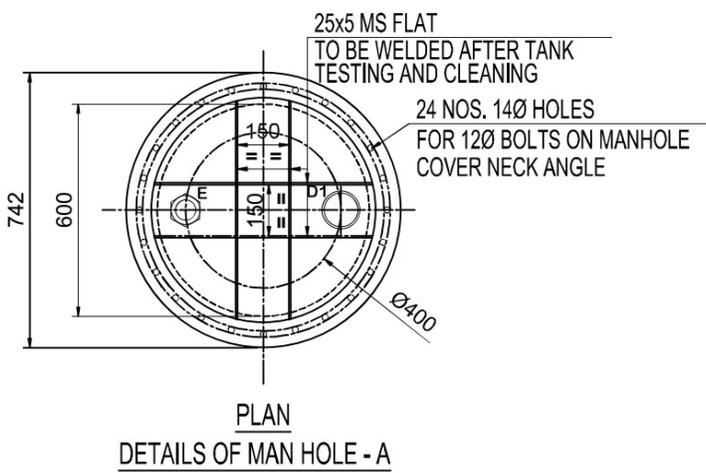


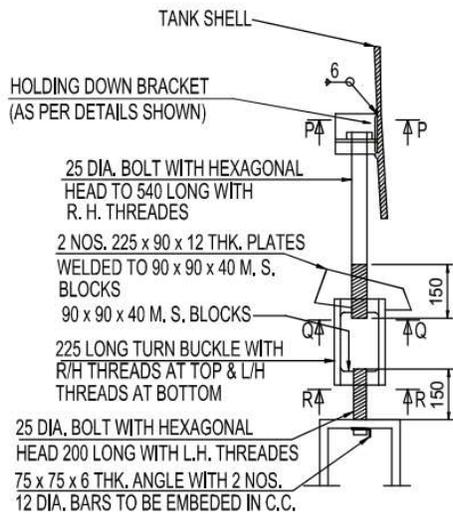
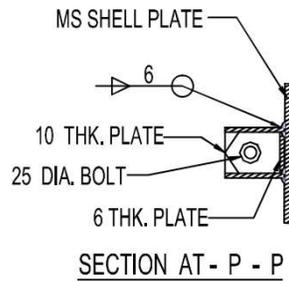
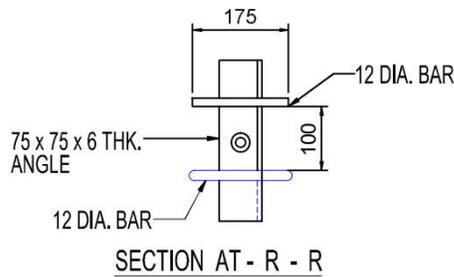
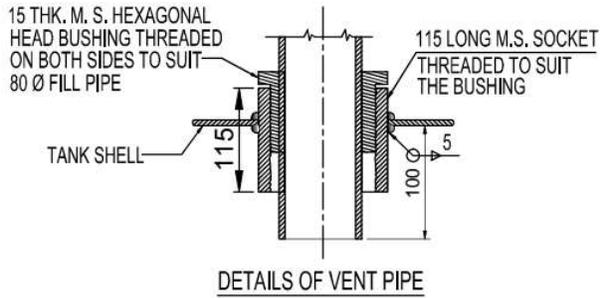
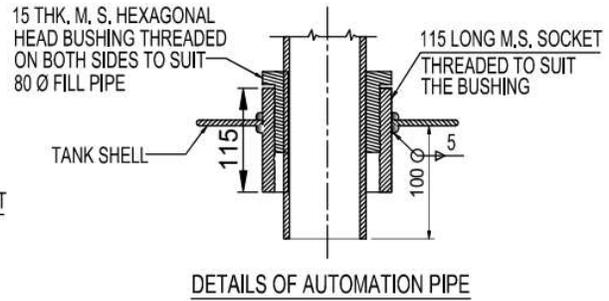
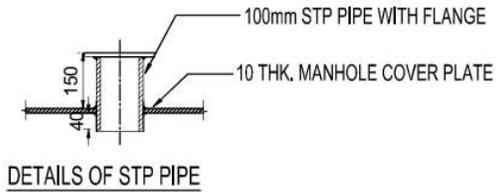
ARRANGEMENTS OF SHELL & END PLATES

Note:

- i. All dimensions are in mm unless otherwise specified.
- ii. All weld joints shall be of continuous welding until unless specified.
- iii. Fabrication of the tank shall be carried out confirming to IS 10987.
- iv. Tentative bill of material and fittings are indicated in Annexure II.

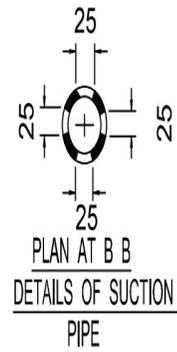
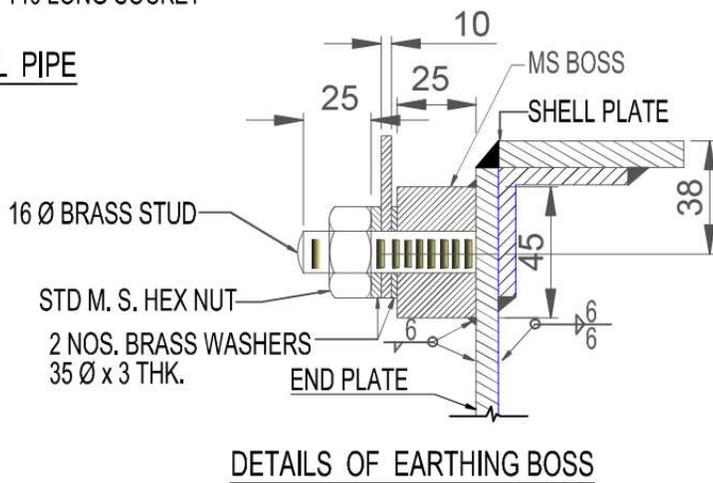
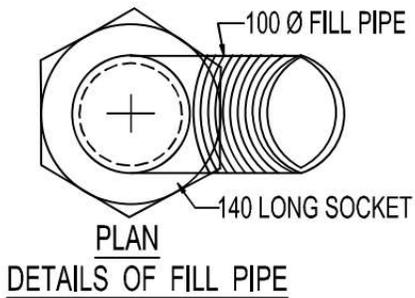
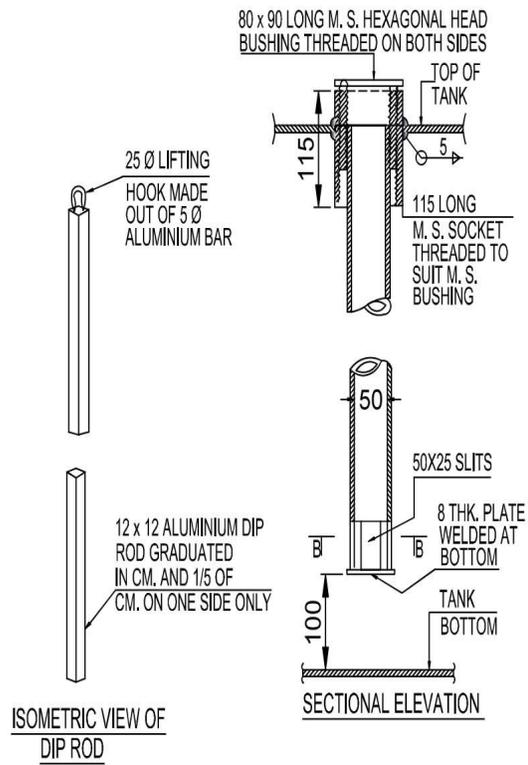
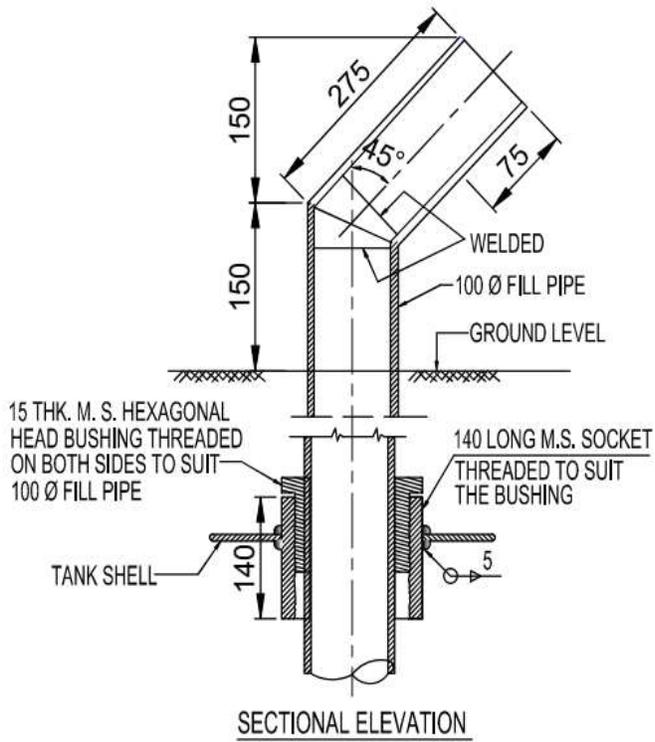
Fittings and accessories for 20 kilo litres tank with two man holes:

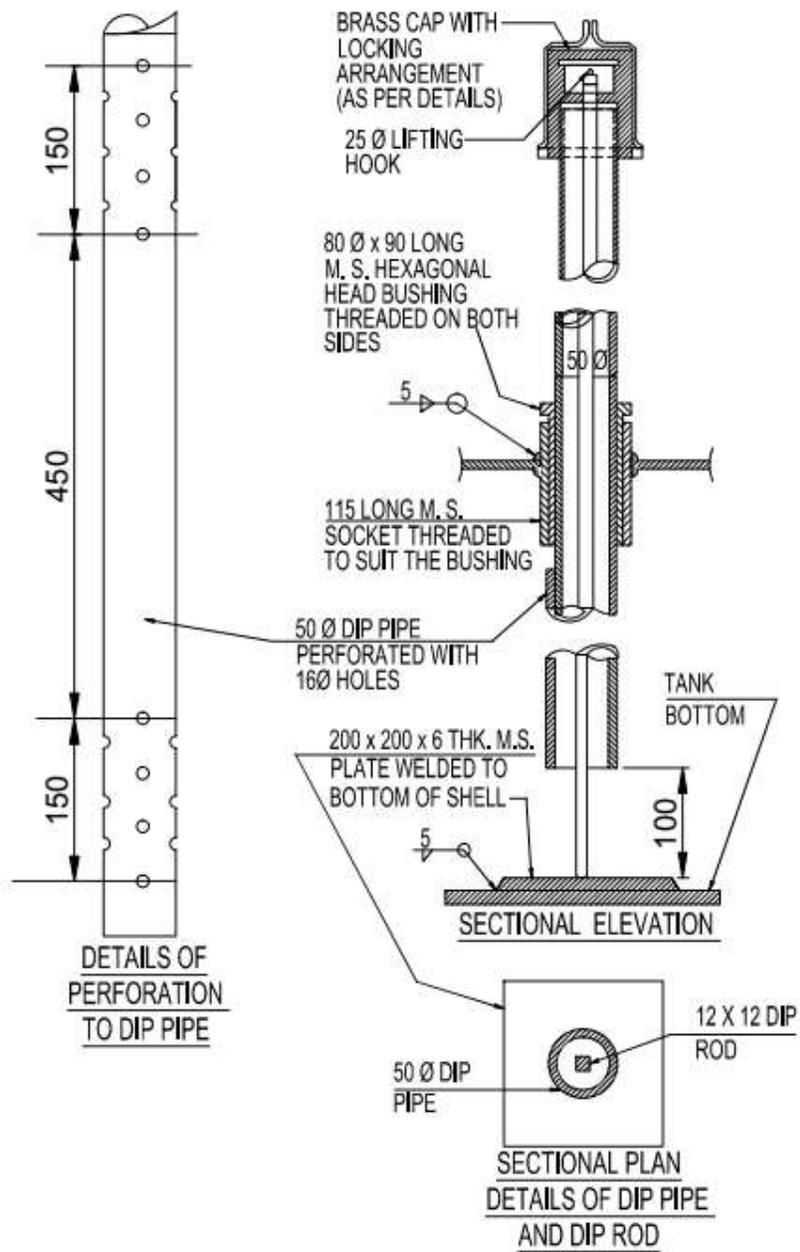


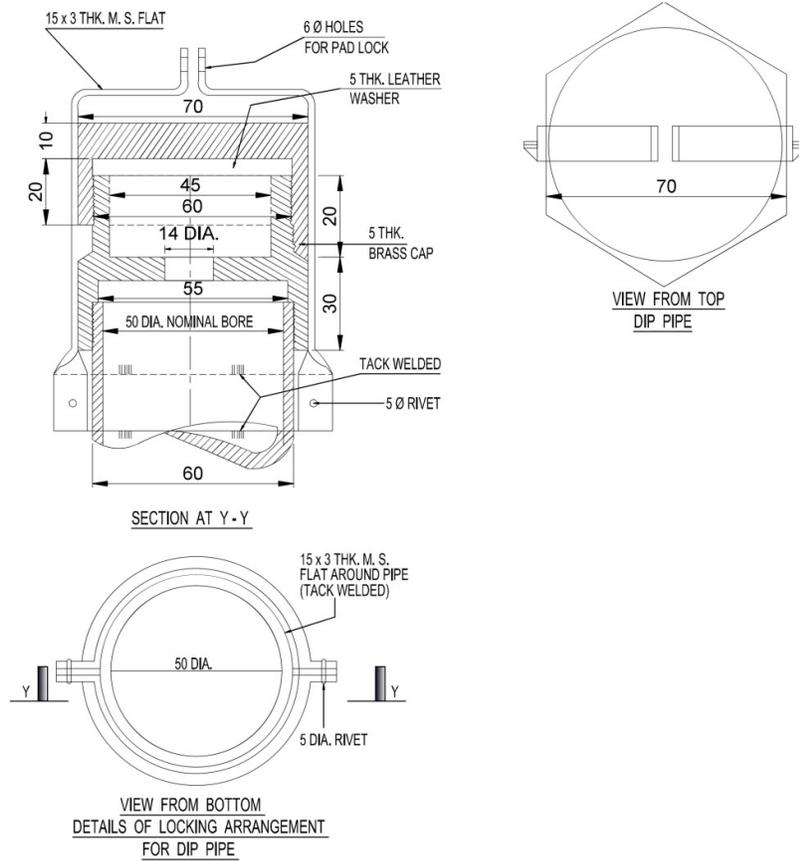


Legend :	A : 50mm suction pipe
	B : 100mm fill point
	C : 50mm DIP point
	D : 100mm STP pipe
	D1 : 80mm automation point
	E : 80mm Vent pipe

DETAILS OF HOLDING DOWN ARRANGEMENT AND TURN BUCKIL



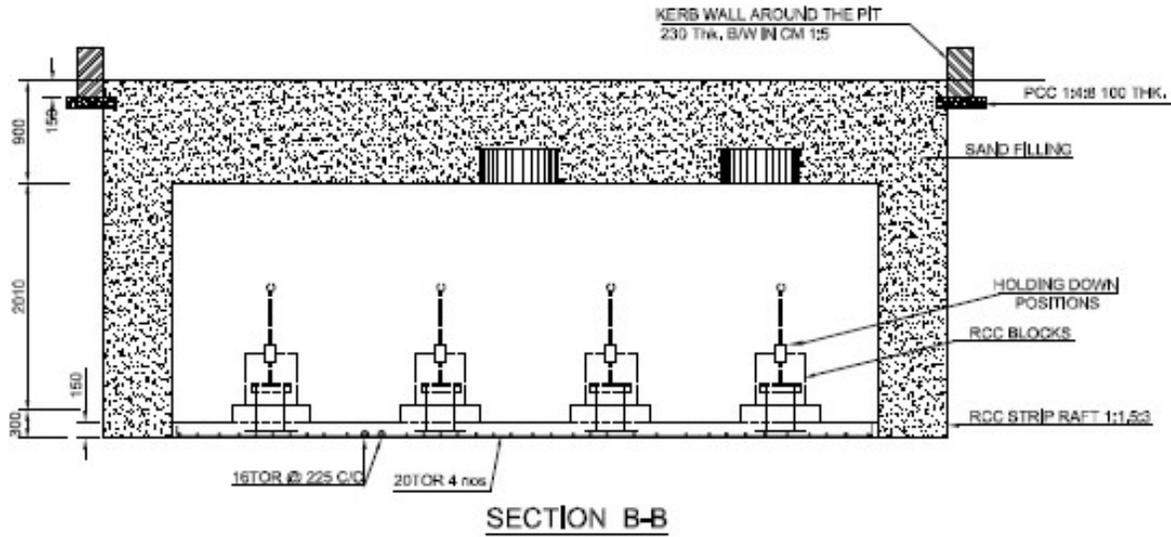
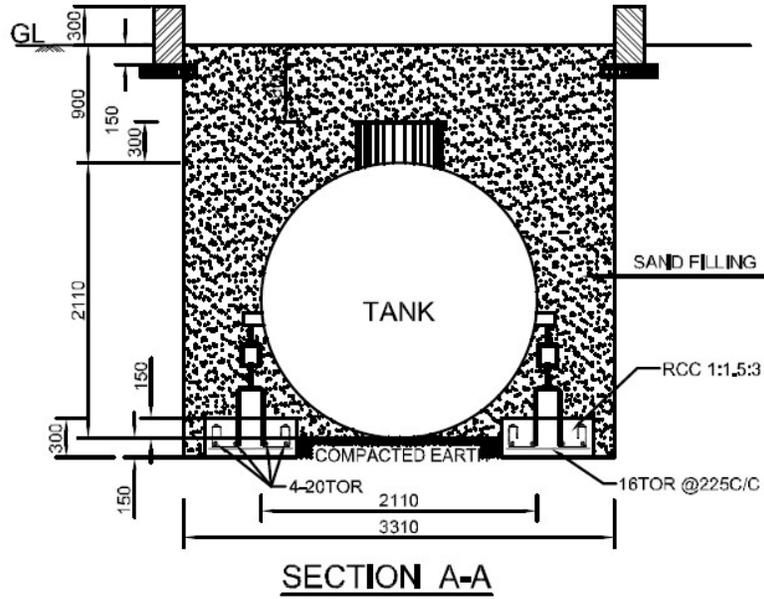


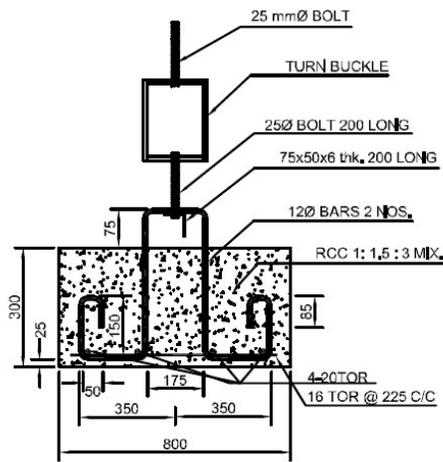
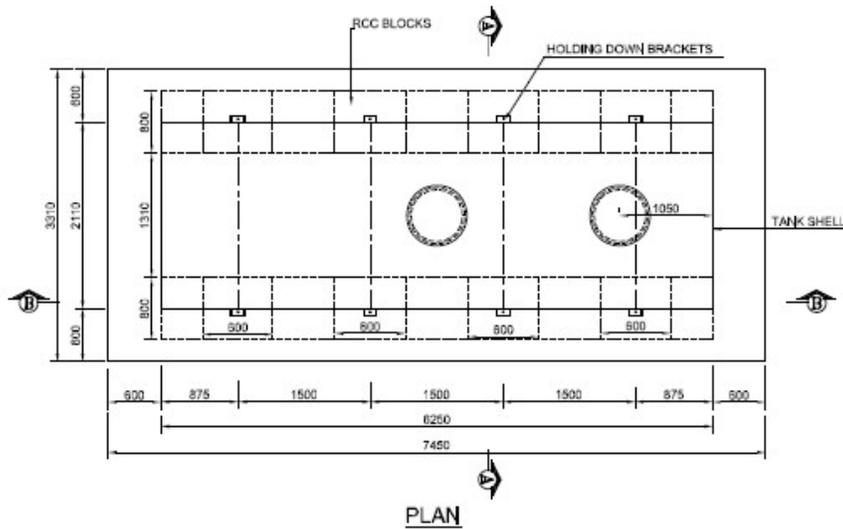


Note:

1. All dimensions are in mm unless otherwise specified.
2. All weld joints shall be of continuous welding until unless specified.
3. Fabrication of the tank shall be carried out confirming to IS 10987.

Installation Requirements for UG tanks at our site:

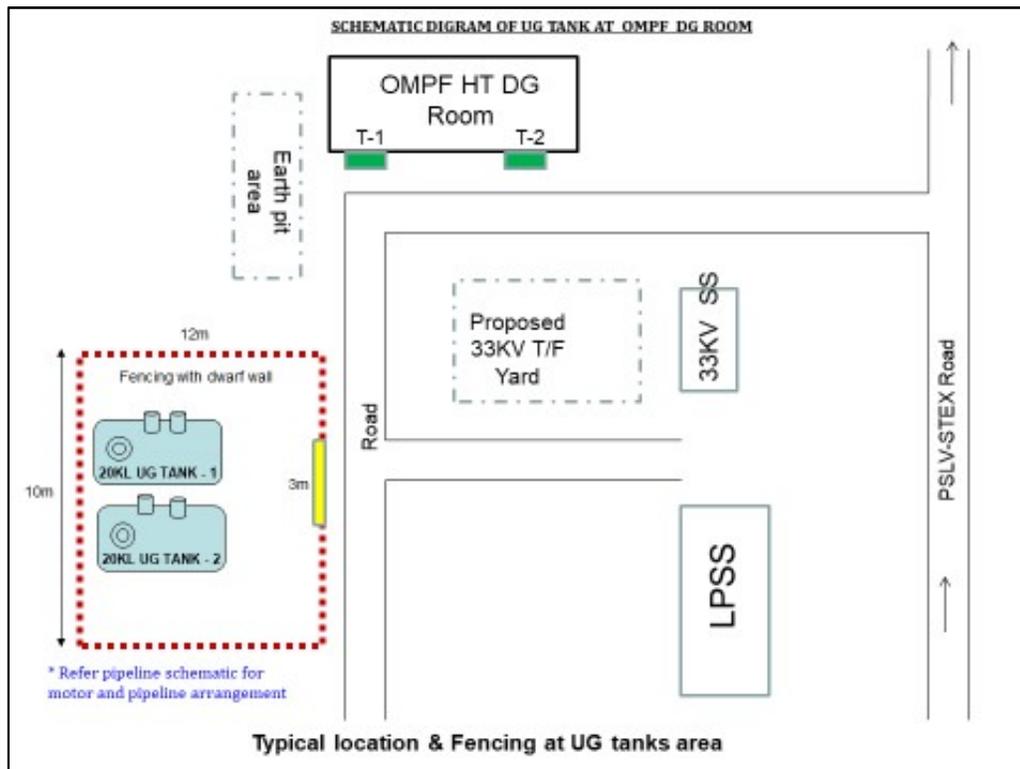
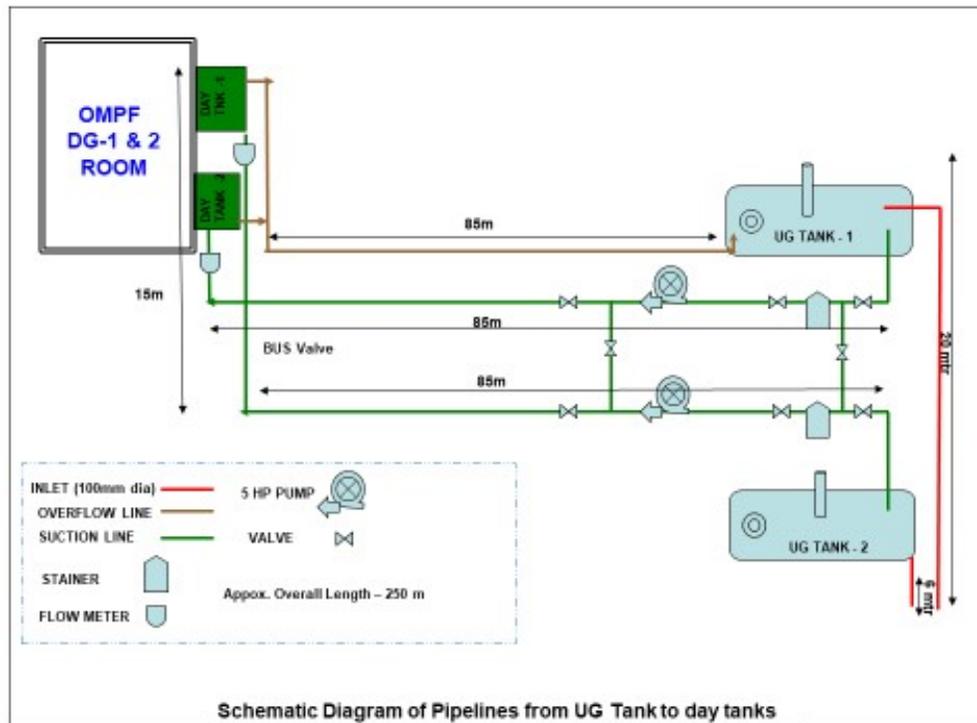




DETAILS OF HOLDING DOWN ARRANGEMENT

Note :

4. All dimensions are in mm unless otherwise specified
5. Doping of the under surface tank shall be done before positioning in pit
6. Filling shall be done as per specification
7. The exposed ends of the pipe fittings shall be covered to prevent ingress of backfill till the pipeline connections are made.
8. In brick masonry 340mm wide or stone masonry 400mm
9. The tanks installed and but not commissioned should be kept with full of water as required.



Specification for Cleaning, Surface Treatment of Carbon Steel Tanks

1. Scope

This specification describes pickling and passivation of Carbon Steel Tanks. The scope includes supply of all chemicals, opening of all nozzles & man holes of Tanks and carrying out pickling & passivation.

2. Salient Features of the Process

- a) Flushing with potable water.
- b) Soaking/ circulation of alkali solution for 1-2 hours to remove oil and grease.
- c) Washing with potable water to remove alkali.
- d) Soaking/ circulation of acid cleaning solution for 2-6 hours to remove scale, rust & dirt.
- e) Washing with potable water to remove acid which eliminates exposure of highly acidic surface to hydrogen atmosphere and formation of black deposits.
- f) Citric rinsing.
- g) Passivation treatment with phosphate nitrite combination for neutralisation of acid and Passivation in one operation.

3. Specification for Degreasing, Pickling and Passivation of Carbon Steel Tanks.

- a) **Flushing:** Water flushing to remove loose dirt, scales, etc.
- b) **Degreasing:** Composition of degreasing solution shall be as follows:

Tri-sodium phosphate	:	0.5% to 1.0% by water
Sodium hydroxide	:	0.3% to 0.6% by water
Teepol (detergent)	:	0.5% to 1.0% by water
Water	:	Balance
Duration	:	1-2 hours
- c) Proprietary compositions (Lissopol/ equivalent) available in the market for degreasing operation at ambient temperature can be used instead of above composition.
- d) **Rinsing:** Rinsing with water till pH of the inlet and outlet is same.
- e) **Pickling:** Composition of pickling solution shall be as follows:

Hydrochloric acid	:	5-15%
Inhibitor (Rodine 213 special)	:	0.5-1% by volume on strong acid
Non-ionic wetting agent	:	0.05% by volume
Water	:	Balance
Duration	:	2-6 hours
Temperature	:	Ambient
- f) The acid concentrations shall be checked before the treatment and shall be changed if the level of iron in the bath reaches 8 g/l.
- g) **Rinsing:** Rinsing with water till pH of the inlet and outlet is same.
- h) **Citric Rinsing:** Composition: 3 Kgs of citric acid in 1000 litres of potable water. PH Value: 3.5, Duration: 1- 2 Hours
- i) **Passivation:** Composition of Passivation solution shall be Sodium Nitrate: 2-4%, Di-Sodium hydrogen phosphate: 1-2% and Water: Balance, Duration: 4-6 Hours
- j) **Drying:** After draining Passivation solution, air receivers shall be dried with compressed air till dew point -40 °C achieved.

Price Bid Format

1. Fill up separately and upload as price bid format. Never indicate the cost in the technical bid. If indicated the bid will be summarily rejected.

2. Fill up indicating as "quoted" and the % of Taxes applicable along with technical bid.

#	Description	Qty	UoM	Rate	Sub Total
A	Supply of 20kL U.G. Diesel including all accessories				
A.1	Fabrication and supply of 20KL underground diesel storage tank as per IS 10987 and the specifications in the annexure (6mm for shell and 10mm for end plates).	2	Nos.,		
A.2	Supply of all associated accessories like end plates, fittings, Manhole covers, flanges, 80mm / 100mm dia. fill pipe, heavy duty class B MS extended to the road side and fitted with fill cap and locking arrangement, vertical vent pipe of size 25 mm for an height of 3.0 mtr height above ground level fitted with mesh screen at the mouth including all materials etc as per the specifications and drawings in the annexure and as required for complete commissioning.	2	Set		
A.3	Third party inspection charges as per the specifications in the annexure document.	1	lot		
A.4	Transportation charges for safe transportation of tanks and associated fittings and required material from fabrication facility to SDSC SHAR with necessary permits.	1	Lot		
A.5	Supply of Safety items: 1. Supply of 02 Nos., of standard set of three Fire Buckets inside painted white and outside red with 'FIRE' painted on it in Black along with closing lids. The bucket hanging frame work is made of MS angles with MS sheet top canopy, duly cutting, welding and two coating of anticorrosive paints and shall be fully painted with red colour enamel paint and with all materials required for making frame for hanging Fire buckets and as per the requirements of local electricity authorities. The angle frame shall be provided with extra handle as bottom. 2. Supply of 02 Nos of Portable Fire Extinguisher DCP type of 6kg capacity complete with hose, nozzle and mounting brackets including fixing on wall with necessary fixing materials and civil works as required and as directed by EIC. The extinguisher cylindrical shape body is fabricated of MS sheet as per IS: 513 grade and welded construction, anticorrosive body type, extinguisher filled with best quality DCP conforming IS: 4308 certified ISI marked as required. 3. Supply of Danger boards, Diesel storage zone board and etc as required.	1	lot		
B	Supply of Diesel filling Items				

B.1	<p>Supply of the following:</p> <ol style="list-style-type: none"> 1. 02 Nos., of Flameproof motor pumps as per the technical specifications 2. Supply of 32 mm dia. (for UG tank fuel pump) and 25 mm dia. (between fuel pumps and day fuel tank) class 'C' MS pipes including supply of all the materials as per the specifications and the drawings. 3. Associated diesel grade foot valves in both the tanks 4. Associated Non return valves prior to the pumps as required 5. Associated ball valves as per the schematic. 6. Any other minor accessories towards completion of the project shall be supplied along with the tanks. 	1	Set		
B.2	<p>Supply of Indoor type front operated cubicle type free standing panel, suitable for operation on 415V, 3 phase, 4 wire, 50 Hz, AC supply system. The panel shall be fabricated out of CRCA sheet steel with necessary anti-corrosive treatment and shall be dust and vermin proof construction and panel fabrication shall be as per relevant IS/IEC 61439 and it shall be suitable for Auto/manual control operation.</p> <p>Incomer:- 63A FP MCCB (25kA) with Earth leakage module : 1 No. Bus Bar: 63A FP Aluminium Bus bar: 1 set</p> <p>Outgoing:- TP MPCB Suitable for 5.5kW Motor : 3 Nos. with selector switch for Local/ remote, auto/manual/ OFF operation. Phase indicators, ON-OFF & START/STOP Push Buttons with indications, TRIP /RESET indication lamps & Pump status indication lamp with MCB control etc : 3 sets. Supply shall also cover the required 25x3 GI earth strip, end terminations etc. (Exclude earth pipes, 2.5 sqmm Cables which will be given by dept during installation works)</p>	1	lot		
C.	Installation of the Tanks & Associated Works				
C.1	<p>Earth work for installation of tank, pipelines, motors and etc including handling & installation of the tank in open earth pit of suitable size with earth cushion at the base and earth packing on all sides and sand filling up to the top 75mm, anchoring the tank with GI belts to clearing the existing site of debris earth work and carting away the same to designated areas. Including necessary material and labour complete as required.</p>	1	lot		
C.2	<p>All types of civil works including site debris clearance, excavations, concrete RCC flooring for UG tanks, sand level filling to required height, providing RCC concrete pedestals for motors & pipelines and Fencing with dwarf wall for UG tanks area etc and complete all the works as required at site and specified in the annexure specifications.</p>	1	lot		

C.3	Installation of Electrical panels, Cable laying and Earthing: 1. laying of 2.5 sqmm CU cable from OMPF DG room to UG tanks yard in ground soft soil including Transportation of cable to site, excavation, refilling with sand and baked bricks of class designation 4.5N/mm ² on sides and 225 x 450 x 40 mm size RCC slabs on top, providing cable route / joint markers at every 20m interval of route. (required 2.5 sqmm cable will be given by department) 2. Boring and providing 12m depth GI pipe earth station (03Nos) for UG tanks and Motors as required. (6m pipes will be given by department). Welding painting and associated works are shall be carried out. 3. Supply and installation of 2.5 Sqmm CU End terminations, associated earth strip supply and laying with 25x3 strip including supply and fixing using MS/Aluminium spacers ,saddles ,welding with all fixing materials required when laid inside the building and inclusive of excavation & refilling of earth, when laid outside the building and tinning of all the joints & terminations interconnections with earth pit and equipment, terminations / interconnections in an approved manner as per IS 3043(with latest amendments) inclusive of supply of all hardware complete as required. And complete as required at site.	1	lot		
C.4	Documentation: A final handing over dossier as required	1	Job		
D	Any other cost (if any)				
				Sub total	
				GST @18%	
				Grand total	

*** The lowest offer will be decided on grand total.**