



TRAVANCORE TITANIUM PRODUCTS LIMITED

Kochuveli, Thiruvananthapuram 695 021

Phone : 0471 2502163 FAX: 0471 2501533

www.travancoretitanium.com

e mail: contract@ttpltd.in

TTP/CD/CN/KV- 71 /Constrn_SAP Tank/22-23

29.12.2022

Tender Notice

Sealed tenders are invited from experienced Contractors/firms in prescribed format for the work of **“Erection and commissioning of Sulphuric Acid tank no-3 of Size 6.7 meter ID X 5 meter height at TTPL site”**. Tenders are invited in two bid system (Part- A Technical & Commercial Part, Part-B Price Part) Part-A of the tender should contain the technical aspects such as previous experience in Steel Storage tank constructions. Part B should contain the price part .

The duly filled tender (both Part A and Part B) shall be enclosed in a single envelope, sealed and super scribed with Tender No., Date and due date and description as Commissioning of “Erection and commissioning of Sulphuric Acid tank no-3 of Size 6.7 meter ID X 5 meter height at TTPL site” The same shall then be forwarded to **“HOD (Commercial), Travancore Titanium Products Limited, Kochuveli, Thiruvananthapuram, Kerala Pin 695 021.**

The tender form can be obtained from the office of the under signed between 9.00a.m and 3.00 p.m on all working days except Saturdays, after remitting the tender form cost. **Cost of tender form is Rs.900/- + GST @ 18% (Total Rs. 1065 /-).** Tender document can also be downloaded from our website (www.travancoretitanium.com) and shall submit the Tender along with a DD against the tender form cost & EMD in favour of Travancore Titanium Products Limited payable at Thiruvananthapuram.

EMD: Rs. 11,250 /- (by cash /DD) (refundable)

Sealed Tenders will be received at our office on all working days and the last date for submitting the same is **on 20.01. 2023** at 12 Noon. Tenders received after the due date & time will not be accepted. Fax/email offers also will not be accepted.

The bids will be opened on 2 pm on **20.01.2023** in the presence of the tenderers present at that time.

for TRAVANCORE TITANIUM PRODUCTS LIMITED

Head of Department (Commercial)

Encl: Proforma& tender document

Signature of the bidder:

Page 1 of 1



TRAVANCORE TITANIUM PRODUCTS LIMITED

Kochuveli, Thiruvananthapuram 695 021

Phone : 0471 2502163 email: contract@ttpltd.in

Tender Notice

TTP/CD/CN/KV -71 /Constrn_SAP Tank/22-23

28.12.2022

Name of work:- “Erection and commissioning of Sulphuric Acid tank no-3 of Size 6.7 meter ID X 5 meter height at TTPL site”.

Due date: 20.01.2023 up to 12 noon (date of submission of tenders)

Tenders are invited in two bid system (Part- A Technical & Commercial Part, Part- B Price Part) from experienced contractors/firms in prescribed format for erection and commissioning of Sulphuric Acid tank storage tank no-3 of Size 6.7 meter ID X 5 meter height. Part-A of the tender should contain the technical aspects such as previous experience in Steel Storage tank constructions. Part B should contain the price part .

1.0.0 INTENT OF SPECIFICATION

This Specification is intended to cover the erection , testing, commissioning of Acid storage tank at TTPL site, inclusive of unloading of fabricated material at TTPL site , storage at site, in plant transportation, complete services of erection, testing and commissioning of sulphuric acid tank complete with all accessories as specified herein after and as required for safe and trouble free operation and maintenance for TTPL Sulphuric Acid Plant.

2.0.0 SCOPE OF WORK

a.) Contractor’s Scope :

- 1.) Unloading of the rolled plates /structural items at TTPL site supplied from the fabrication unit ,erection ,testing and commissioning of Sulphuric Acid tank of Size 6.7 meter ID X 5 meter height as per drawing No. TTP/EP/C-1726/2 at TTPL site . Tank should be installed and commissioned in the foundation specified by TTPL as per IS 803 standard ,with all accessories as specified in the drawing .All the rolled plate shell –both horizontal/ vertical and bottom plate shall be edge prepared (v-grooves) as per IS803 standard prior to start of erection work .
- 2.) Inspection of the materials at the fabrication unit (outside TTPL) to confirm the suitability of the rolled plates for the tank construction .TTPL has invited tender for the fabrication of storage tank materials .The contractor has to visit the respective fabrication unit, for the inspection of rolled plates/structural items for the storage tank construction).

- 3.) All the test required for successful commissioning of the storage tank viz. dye penetration test, vacuum box test , verticality and ovality test , radiographic testing ,hydro-test etc .
- 4.) Interconnection of the newly constructed storage tank to the production line . Required interconnection line shall be fabricated by the bidder.
- 5.) Painting of the storage tank – 1 coat redoxide primer and 2 coat rubber based paint on the shell , roof and bottom plate.The work inclusive of supply of paint .
- 6.) All items except storage tank materials viz. Welding electrode , Cutting gas,cutting disc, oxy –acetylene gas ,welding set , safety equipments are under the scope of the contractor
- 7.) Clearance of the waste material and conveyance to the storage yard.

b.) TTPL's scope of work :

- 1.) Supply of rolled plates ,structural materials, valves ,nut& bolt for MS tank construction .
- 2.) Foundation repair work –civil work

3.0.0 Welding

Welding Manual Metal arc welding IS 823/ Electrode AWS-E6013. Esab 28 Electrode shall only be used for welding of the Tank. In cases were E-6013 welding electrode found to form cracks ,the contractor shall use Esab make E-7018 electrode ,especially for bottom plate welding ,if required ,as instructed by the TTPL officials .

3.1..0 Workmanship:

All work of fabrication shall be done in accordance with good engineering practice. The workmanship and finish shall be first class in every respect subject to the closest inspection by the manufacturer's inspector, and as directly by the Purchaser's Inspector.

3.1.1 Straightening:

Straightening/bending of material shall be done by pressing before being worked on it in any way. Heating or hammering is not permissible unless the material is heated to a forging temperature.

3.1..2 Cutting:

Plate shall be cut to size and shape by machining, chipping, grinding, shearing and flame-cutting which includes plasma arc, oxy-gas with or without flux injection or equivalent fusion cutting process

3.1.3Welding:

Tanks and their structural attachments shall be welded by the qualified welders.

3.2WORK COMPLETION PERIOD

The bidder shall be responsible for complete erection ,testing, and final check-up & commissioning of the Sulphuric Acid storage tank within 3 months from the date of supply of materials by TTPL to the contractor .

3.3.0 PERFORMANCE GUARANTEE

The Tenderer shall guarantee that the material of construction and workmanship of the tanks shall be in conformity with that mentioned in this document and wherever there is nothing specifically mentioned in the specification, the quality shall correspond to the best available grade and quality. The Tenderer shall also guarantee that the workmanship shall be of highest quality and the tanks shall provide satisfactory operation under conditions as stipulated in the specification for a period of 6 months from the date of commissioning.

3.4.0 Other Terms and conditions

1. Lumpsum rate should be quoted for the above scope of work which includes cost of installation, testing, painting, commissioning, consumables, labour charges, unloading charges, scaffolding, providing fire screen to isolate the workplace from other storage tanks and fire hydrant spray pipe and other expenses/charges for carrying out the entire work.
2. Contactor should adhere to a safety rules and regulations specified by the Company Safety Department. Company is not responsible for any mishap during the execution of the work. Safety permit should be obtained from the Safety Department before commencement of the work..
3. All the equipments including tools, tackles, chain blocks, scaffolding material, welding set , electrodes, gas cutting set, oxy acetylene gas, grinding machine, bolts, nuts, piping etc. are to be provided by the Contactor.
4. TTP will supply electric power and water at free of cost.
5. Welding should be done only with Easb-28 electrode. Qualified and experienced welder should be engaged. All internal welding joints should be ground properly before testing.
6. Contractor may visit the site before submitting the quotation to assess the nature of work .Any clarification regarding the tender shall be sought by the bidder prior to the bid clarification end date .
7. The contractor shall provide fire screens to isolate the newly commissioning storage tank from other acid storage tanks ,to avoid any sort of accidents due to acid spillages from other storage tanks .
8. The contractor shall visit the fabrication unit to inspect the fabricated materials at their site and confirm the suitability of the material for tank erection . The contractor shall ensure that the rolled plate and structural items are fabricated conforms to our requirement in terms of quality and quantity . Any sort of disparities in the work shall be reported to the company immediately after inspection and company shall not be liable for any sort of shortfalls in the fabricated material after the supply of material at TTPL site .

3.5.0 Testing:

- i. Verticality and Ovality to be checked stage by stage of the construction.
- ii. Calibration, testing and certification should be done in the presence of TTP officials.
- iii. Radiography: Spot radiography inspection as per Code of IS 803.
- iv. Dye penetration test is to be done for remaining welding joints.
- v. Tank should be filled with water and hydraulic test is to be conducted. Water connection including pipe lines for the testing is to be provided by contractor.

- vi. Vacuum box test is to be conducted on the bottom plates, welding joints etc. (Vacuum not less than 100 mm H₂O gauge) for the entire bottom shell of the tank.
- vii. All the test certificates of the test conducted shall be submitted by the contractor

3.6.0. Painting:

After testing, the tank should be thoroughly cleaned and freed from rust.

One coat zinc chromate primer and 2 coats of rubber based paint shall be applied to the entire tank area . Bottom portion of base plate of the tank shall be painted .

3.7.0. All the works including commissioning is to be completed within 3 months from the date of supply of storage tank materials to the contractor.

3.8.0. Performance guarantee should be given for 6 months from the date of commissioning for defective materials and poor workmanship.

3.9.0. The contractor should follow the instructions of the concerned engineer at every stage of erection and should submit necessary material test certificates and when required.

4.0.0. Payments:

1. 60 % after the erection of the storage tank.
2. 30% after commissioning of the tank .
3. 10 % after 6 months from the date of commissioning, as performance guarantee.

5.0.0. Pre Qualification Criteria:

a) .)Experience of having successfully completed minimum 1no similar work during last 5 years ending 31st Dec-2022.**Similar work means- Construction of steel storage tanks of minimum 100 m3 capacity .**

6. GENERAL TERMS AND CONDITIONS:

1. Details of ESI & PF registration
 - i) ESI Registration number:
 - ii) PF Registration number.....
 - a. **If the bidder is not under PF act , a self-declaration to be submitted along with the tender .**
 - b. **If the bidder is not under ESI act, the bidder has to submit CAR (contractors all risk) policy for the entire period of contract for the employees engaged for the work.Self-declaration to be submitted along with the tender.**
2. The bidder shall submit Tender document duly filled and signed along with the enclosures mentioned in the tender document within the time stipulated in the tender notice. Bids should bear the signature of the bidder in all pages.
3. The bidder shall remit the tender form cost and EMD as given in the tender document. The bids without remitting tender form cost and EMD will be rejected.
4. The rate quoted shall be exclusive of GST and the GST applicable should be mentioned at the space provided in the Price format. If the bidder is below the threshold limit of GST that should be mentioned in the price format and a self declaration shall be submitted with the tender.

5. The tender must be firm for a period of three months from the date of opening of the Part B of the tender during which period the bidder will not be free to withdraw the tender. Any such withdrawal will be entailed to forfeiture of the Earnest Money Deposit(EMD) and also result in the tenderer being made liable for the losses and damages sustained by the company in rearranging the work.
6. It is no binding on the company to accept the lowest offer. The company reserves the right to cancel/postpone the tender or to reject any or all offers without assigning any reason.
7. The tenderer should remit the Earnest Money Deposit (EMD)mentioned in this document in cash/DD and proof of thereof should be enclosed along with the tender. Other mode of remittance will not be accepted.
8. If any irregularity or fraudulent behavior is noticed on part of the contractor / his agents / representatives or the crew of the vehicle engaged by the contractor for the performance of the contract, the company reserves the right to take all suitable action deemed fit against the contractor and those concerned.
9. The Contractor will be responsible for meeting all the requirements of the various labour enactments applicable from time to time and should indemnify and keep indemnified the company against all losses and damages sustained by the company in this regard at all times.
10. The Contractor should comply with all relevant formalities under contract labour (Regulation and Abolition) Act 1971, such as display of rate of wages, date, place and time of payment of wages, date of payment of unpaid wages etc. they should also intimate the time, date and place of disbursement of wages to the supervisory Officer nominated under the above act for certification of payment to contract workers.
11. The Contractor should strictly adhere to the Safety Rules prevailing in the company failing which penalty as decided will be imposed. The Company is in no way responsible for any injury, disability or death of contractor's workmen due to non-compliance of safety regulations. TTPL will not pay any compensation in this regard. **All the PPE's to the employees for the execution of the work is under the scope of contractor**
12. The workers engaged by the contractor shall wear the ID cards provided from the Main gate Security persons and displayed same while on work.
13. **Cutting Gases / Acetylene gas with flash back arresters on cylinders are only permitted for gas cutting works. LPG Cylinders (Domestic and Commercial) will not be permitted.**
14. The Contractor should fix a display board on the materials of their own kept within the Company premises indicating the names of the contractor and Work Order No.
15. The work should be completed within the time limit given by the Officer in charge of the work.
16. The Company reserves the right to cancel the work order forfeiting security deposit if the work is not started within the time stipulated in the work order and also to terminate the contract at any time if the work is not done with proportionate progress to the satisfaction of the company officials and in all such cases the company will be at liberty to get the work done in any manner that the company thinks fits and all losses and damage sustain by the company in this regard will be recovered from contractor and his assets.
17. Company reserve the right to accept/reject any of the tender after evaluation with or without assigning reason no matter whether a Tenderer has quoted the lowest rate. All questions/disputes arising out of in connection with this shall be decided by the Managing Director of the company and his decision thereof shall be final and binding to all tenderers.
18. **Jurisdiction:** Any dispute or questions relating to or arising out of the finalization of this tender, if remains, shall be subject to the executive jurisdiction of the courts at Thiruvananthapuram.
19. **Agreement:** The liability of contractor/bidder under this contract will commence on the date specified in the letter of Intent/ Work order. The successful bidder shall be required

to execute an agreement with TTPL if the contract value is above Rupees One lakh, immediately from the date of issue of work order for carrying out the work according to the terms and conditions of the contract given along with work order. The agreement shall be executed on Rs. 200/-Stamp paper and shall be in the proforma as specified by TTP. The provision contained in tender papers and other documents exchanged between the Bidder and TTP shall form part of the contract. The Earnest Money Deposit is liable to be forfeited in case the contractor fails to execute the Agreement within the stipulated period as mentioned above.

20. **Security deposit:** The successful tenderer shall provide a Security Deposit equal to 5% of the contract value immediately from the date of issue of work order for the due performance of the contract. The EMD of the successful tenderer shall be adjusted against the Security Deposit. Balance amount, if any, shall be remitted by means of a Demand Draft payable at Thiruvananthapuram or as Bank Guarantee from a nationalized /scheduled bank. The Security deposit shall not bear any interest and shall be released only after successful completion of all contractual obligations including guarantee period.
21. **Liquidated damages:** In case of any delay in the execution of the Order beyond the stipulated date of work schedule including any extension permitted in writing, the TTPL reserves right to recover from the contractor a sum equivalent to 0.5% of the total value of the delay for each week of delay and part thereof subject to a maximum of 10% of the total value of the Order. Alternatively, the Company reserves the right to execute the work from elsewhere at the sole risk and cost of the contractor and recover all such extra cost incurred by the company in execution of work by the above procedure.
22. **Evaluation of Bids:** The evaluation of the bids will be based only on the documents submitted
23. **Deductions:** All statutory deductions will be made from the contractor's bill as per rules. The Contractor shall remit ESI and PF amount and the proof of remittance shall be furnished whenever company insists.
24. If the successful bidder fails to remit SD and execute agreement with the stipulated time, TTP will arrange the work with L2 bidder or with any other source at the risk and cost of the successful bidder if required.
25. Bids without signature in all pages of tender document/bids in incorrect tender document or format/bids without EMD and tender cost will be rejected.
26. In case of any matters pertaining to this tender document and award of contract, which are not incorporated/specified therein, in such cases guidelines of CVC/Kerala Store Purchase Manual shall be applicable.
27. Bids without remitting EMD and tender form fee will be rejected.
28. Canteen charges will be deducted from the contractors bill as fixed by the canteen authorities.
29. The labours engaged by the Contractor shall have Police Clearance Certificate (PCC) and other formalities insisted by Security Department of TTPL
30. The successful bidder shall be held responsible for any penalty imposed on them on Violation of statutory requirements/safety regulations and such penalties shall be met by the successful bidder themselves. The Workmen should follow the safety rules and regulations prevailing at TTPL from time to time. The contractor is liable to pay penalty of Rs.500/- for safety protocol violation / incident.
31. Conditional tenders will not be accepted.
32. **Tender shall be submitted in two sealed covers in a single envelope (Part A and Part B). Otherwise the tender will be rejected.**
33. **Documents to be submitted along with the tender**
 - a. Proof of Tender fee and EMD remittance
 - b. Proof of Experience as per pre qualification criteria 5
 - c. Tender document duly signed by the bidder in all pages(Part A and Part B)
 - d. Copy of GST, MSME registration(if applicable)

- e. Copy of PF registration/Self declaration
- f. Copy of ESI registration/self declaration
- g. Self declaration in bidder's letter head attached as **Annexure.**

- 34. Tender Form Cost: Rs. 900 /- + GST @ 18% (Total Rs. **1065/-**)
- 35. Earnest Money Deposit (EMD): Rs. **11,250** /- (refundable)
- 36. Exemption in Tender Form Cost and EMD is as per Govt. rules.
- 37. Tender opening: The Techno- Commercial part (Part A) of the tenders received will be opened at 2.00 pm on **20.01.2023** Price Bids (Part B) of the tender will be opened only after the evaluation of Part A. The price bids of only those tenders which are technically and commercially accepted by TTPL will be opened and the date of opening of price bids will be intimated to the qualified bidders.
- 38. Due date of Submission of tender : **20.01.2023** upto 12.00 noon and will be opened at 2.00 p.m. on the same day in the presence of those tenderers who are present at that time.

for TRAVANCORE TITANIUM PRODUCTS LIMITED



Head of Department (Commercial)

Signature of the Bidder:

PARTICULARS OF BIDDER

1. Name of the Bidder:
2. (a) Registered office address of the Bidder:
(b) Address for correspondence:
3. Mobile Nos.:
4. E-mail address:
5. Status of the tenderer (Individual, Prop. firm, Partnership, Ltd. Company):
6. Contractor Registration No.:
7. Permanent Account No. (PAN issued by Income Tax Dept.):
8. GST Registration No.
9. ESI Registration No.
10. PF Registration No.
11. MSME Registration No.
12. Name and address of Proprietor/ Partners/ Directors:

Declaration

We confirm that we have read and understood all tender conditions and we accept all tender conditions in its entirety.

Date:

Signature:

Name of Person signing:

Tenderer's Name and address with seal:

Place:

Date:

Signature of the Bidder:

PRICE PROFORMA

(PART-B)

TTP/CD/CN/KV -71 /Constrn _ SAP Tank/22-23

29.12.2022

Name of work: “Erection and commissioning of Sulphuric Acid tank no-3 of Size 6.7 meter ID X 5 meter height at TTPL site”.

Due date: 20.01.2023 up to 12 noon (date of submission of tenders)

My lowest rate for the entire scope of work as per Tender is

Rs.....+ GST.....

(In words) Rs.....+GST.....

* Please mention the % of GST.

** If GST not mentioned, the quoted rate will be considered as inclusive of GST

*** If the bidder is below threshold limit that also has to be mentioned.

Signature of the Tenderer :

Name & Address. :

Signature of the Bidder:

SELF DECLARATION

Date:

From

.....
.....
.....

To

The Head of Department (Commercial)
Travancore Titanium Products Limited
Kochuveli, Thiruvananthapuram,
Kerala – 695 021.

Sir,

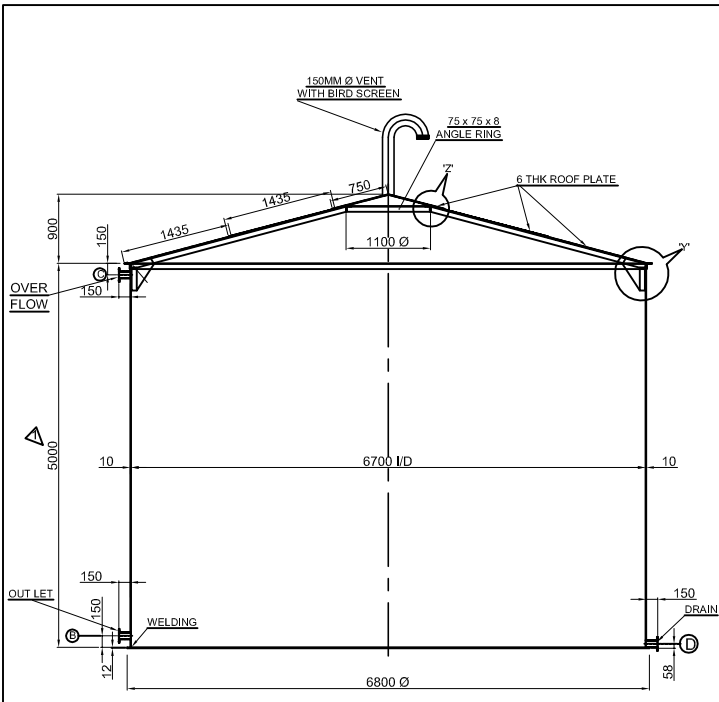
Sub: Tender for **Erection and commissioning of Sulphuric Acid tank no-3 of Size 6.7 meter ID X 5 meter height at TTPL site**

Ref: **Tender No TTP/CD/CN/KV- 71 /Constrn_SAP Tank/22-23 dated 29.12.2022**

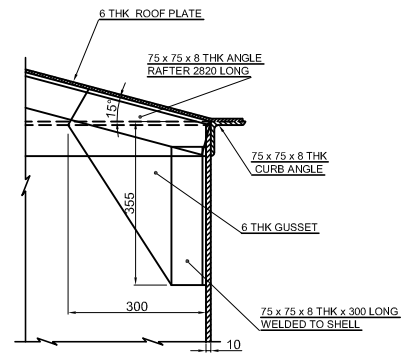
1. I/We have carefully studied the terms and conditions of the tender vide your **Tender No. TTP/CD/CN/KV- 71 /Constrn_SAP Tank/22-23 dated 29.12.2022.**
2. I/We hereby certify that we have never been banned/black listed/suspended by any of the State/UT/Central Government/ PSU organizations.
3. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/contract shall be liable for truncation/cancellation/termination without any notice at the sole discretion of the company.

Yours faithfully,

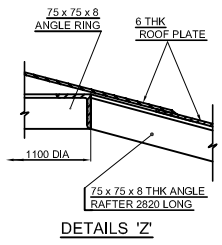
Signature and Address of the Contractor.



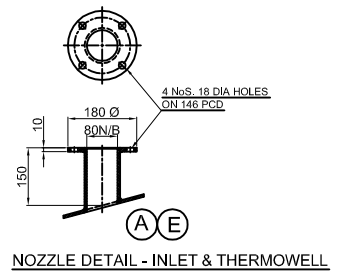
SECTION -X-X'



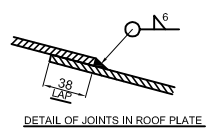
DETAILS 'Y'



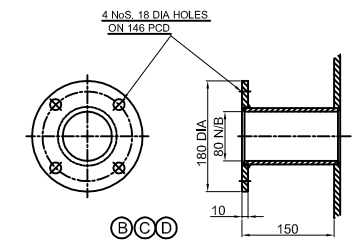
DETAILS 'Z'



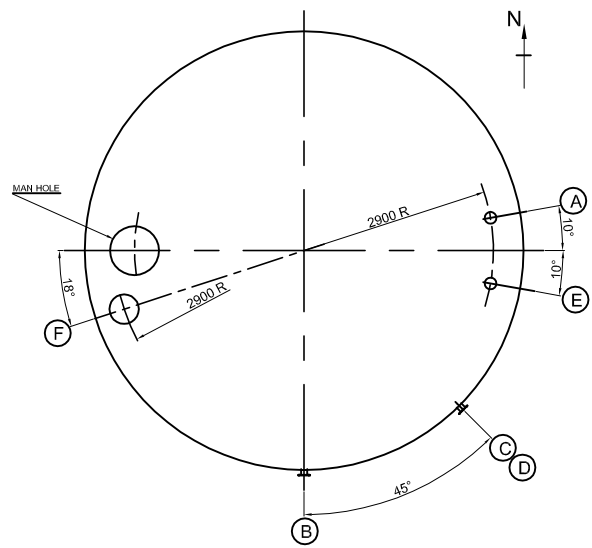
NOZZLE DETAIL - INLET & THERMOWELL



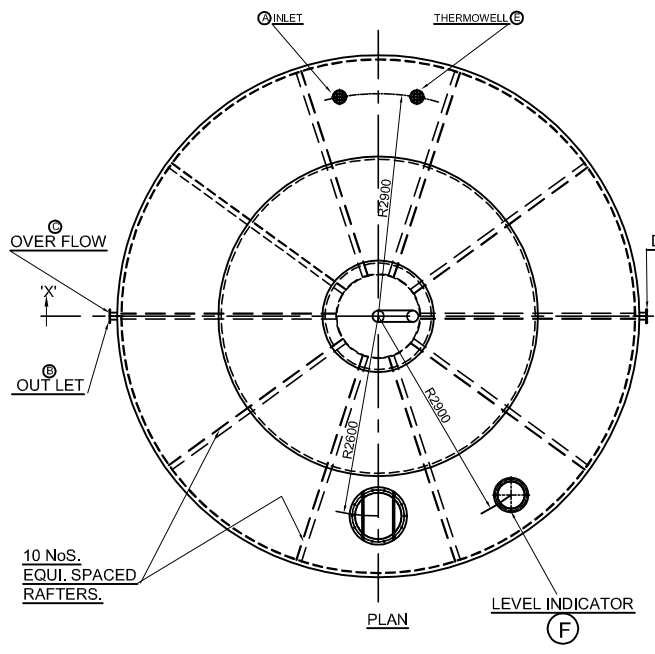
DETAIL OF JOINTS IN ROOF PLATE



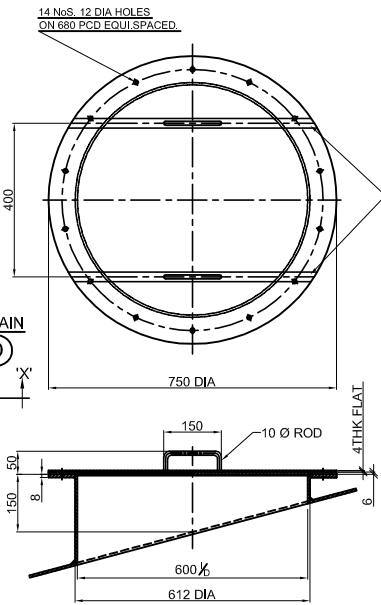
NOZZLE DETAIL - OUT LET / OVER FLOW / DRAIN



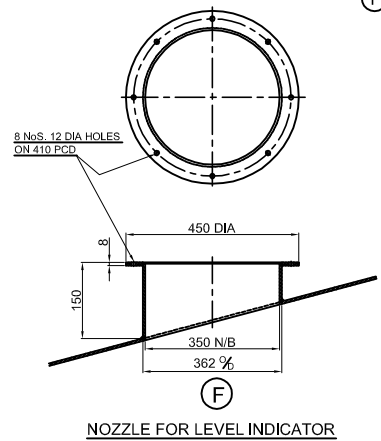
NOZZLE ORIENTATION AS ABOVE / TO BE SUITED AT SITE



PLAN



DETAIL OF MANHOLE WITH COVER



NOZZLE FOR LEVEL INDICATOR

M.S PLATE & STRUCTURALS - I S 2062
NOZZLE FLANGES - BS 10 TABLE 'D'
CAPACITY - 300 TONNES.

ALL DIMENSIONS ARE IN MM.

		TRAVANCORE TITANIUM PRODUCTS LIMITED THIRUVANANTHAPURAM - 695 021.	FILE NO:
			DRAWING NO: TTP/EP/C-1726
VENT PIPE ADDED REV No.2	23-07-2021	5.00 x 6.70 M ACID STORAGE TANK	
HEIGHT OF THE TANK INCREASED FROM 4280 TO 5000 MM REV No.1	21-02-2005	DRAWN BY: S.S. JAYAMOHAN	APPROVED BY: EE (PTS)
Revisions	Date	CHECKED BY: AEE (D/B)	SCALE: DATE :01-11-2002