**Basic Details**

Organisation Chain	The Fertilisers And Chemicals Travancore Ltd. Head Office - FACT Corporate materials - FACT		
Tender Reference Number	03012/2026-2027/E34041		
Tender ID	2026_FACT_922920_1	Withdrawal Allowed	Yes
Tender Type	Open Tender	Form of contract	Item Rate
Tender Category	Works	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Payment Instruments

Offline	S.No	Instrument Type
	1	R-T-G-S
	2	NEFT

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	EMD/EMD Exemption
		.pdf	Pre-qualification documents
		.pdf	Tender documents
		.pdf	Unpriced bid
		.pdf	Compliance Statement
		.pdf	GST, PAN, ESI and PF certificate
		.pdf	Credentials, Eligibility and Pre-Qualification Requirements
2	Finance	.xls	BOQ

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No		

EMD Fee Details

EMD Amount in ₹	25,000	EMD Exemption Allowed	Yes
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	FACT Ltd	EMD Payable At	Udyogamandal

[Click to view modification history](#)**Work / Item(s)**

Title	Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.				
Work Description	Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	No				
Tender Value in ₹	0.00	Product Category	Miscellaneous Works	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	180	Period Of Work(Days)	15
Location	FACT Udyogamandal	Pincode	683501	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	FACT PD Administration Building
Should Allow NDA Tender	No	Allow Preferential Bidder	No		
Tenderer Class	As per Tender Document				

Critical Dates

Publish Date	21-Aug-2026 05:00 PM	Bid Opening Date	05-Sep-2026 11:00 AM
Document Download / Sale Start Date	21-Aug-2026 05:05 PM	Document Download / Sale End Date	04-Sep-2026 11:00 AM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	21-Aug-2026 05:10 PM	Bid Submission End Date	04-Sep-2026 11:00 AM

Tender Documents

NIT Document					
	S.No	Document Name	Description	Document Size (in KB)	
	1	Tendernotice_1.pdf	Tender notice	310.40	
Work Item Documents					
	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	Tender_docs.pdf	Tender documents	3631.86
	2	Tender Documents	Annexure_Prequalification_Professional.pdf	Credentials, Eligibility and Pre-Qualification Requirements	476.68
	3	Tender Documents	Unpriced_bid.pdf	Unpriced bid	87.43
	4	Tender Documents	Compliance_Statement.pdf	Compliance Statement	284.14
	5	BOQ	BOQ_969850.xls	BOQ	327.00

Latest Corrigendum List

S.No	Corrigendum Title	Corrigendum Type	View
1	Bid Auto Extn Corrigendum	Bid Auto Extn Corrigendum	

Auto Extension Corrigendum Properties for Tender

Iteration	No. of bids required for bid opening a tender	Tender gets extended to No. of days
1.	2	7

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	amrutha@factltd.com	Amrutha Terrence	AMRUTHA TERENCE
2.	ginesh@factltd.com	Ginesh Gopurathingal Francis	Ginesh G F
3.	anand.s@factltd.com	Anand S	Anand S
4.	reena@factltd.com	Reena Laila	Reena L

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Stage to disclose Bid Details in Public Domain	Technical Bid Opening
BoQ Comparative Chart model	Normal	BoQ Compartive chart decimal places	2
BoQ Comparative Chart Rank Type	L	Form Based BoQ	No

TIA Undertaking

S.No	Undertaking to Order	Tender complying with Order	Reason for non compliance of Order
1	PPP-MII Order 2017	Agree	
2	MSEs Order 2012	Agree	

Tender Inviting Authority

Name	SM(Mat) C
Address	Contracts Section Corporate Materials FACT Udyogamandal

Tender Creator Details

Created By	Anand S
Designation	DM(MAT)
Created Date	20-Aug-2026 11:33 AM

**FACT**

प्रगति के पथप्रदर्शक
PIONEERS IN PROGRESS

दि फर्टिलाइज़र्स एण्ड केमिकल्स ट्रावन्कोर लिमिटेड THE FERTILISERS AND CHEMICALS TRAVANCORE LTD.

(भारत सरकार का उद्यम) (A Government of India Enterprise)

पंजीकृत कार्यालय: एलूर, उद्योगमंडल, कोच्ची - 683 501, केरल राज्य, भारत
Regd. Office: Eloor, Udyogamandal, Kochi-683501, Kerala State, India. Website: www.fact.co.in CIN: L24129KL1943GOI000371

NOTICE INVITING e-TENDER

Encrypted Competitive rate, **Single stage Two Bid Tenders** containing the NAME OF WORK and TENDER REFERENCE NUMBER are invited from reliable and experienced contractors of sound financial standing by the Senior Manager (Materials)-Contracts, Materials dept., FACT. Tenders received will be opened online on the due date and time. Tender details are given below.

- | | |
|--|--|
| 1. Tender No | : 03012/2026-2027/E34041 |
| 2. Name of Work | : Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex. |
| 3. Nature of Contract | : Item rate |
| 4. Earnest Money Deposit | : Rs. 25,000 /- |
| 5. Validity of Tender | : 3 months |
| 6. Period of Contract | : 15 Days |
| 7. Document Fee | : Nil. |
| 8. Last Date & time to upload of e-Tender | : 28.08.2026, 11:00:00 Hrs |
| 9. Date, Time and Opening of Technical Bid | : 29.08.2026, 11:00:00 Hrs. |

Notes:-

- Details of Tender are available at e-procurement platform <https://eprocure.gov.in>. Offers submitted other than on-line mode shall not be accepted. Time extensions, Corrigendums, Addendums etc if any, will be hosted in the CPP e-procure website and FACT website only and will not be published in newspapers. The bidders are requested to visit the website regularly for corrigendums, addendums, time extensions etc, if any.
- All bidders shall be registered under GST and shall furnish their Registration documents along with their Part-I Technical bids. Bids of parties not registered are likely to be rejected without assigning reasons.
- The bidders shall comply with the prevailing statutory ESI/PF regulations for the employees engaged by them.
- Tenders not accompanied by EMD/Exemption certificate shall be rejected.
- The right to accept the lowest or any other tender rests with FACT.
- For any disparity with the conditions, SCH Q1 shall prevail.
- Contact details :

Tender details

Phone: 0484-2568123, 0484-2568674
email: soumya@factltd.com,
anand.s@factltd.com

e-Tender Helpline

Name: Mr. Ajino Anandh
Phone: 0484-2568374/9497334230
Email: ajinoanandh@gmail.com

Date: 21.08.2026

Signature:

Designation: SM(Mat)-C
Material Dept, FACT

PRE-QUALIFICATION CRITERIA

Name of work : Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

Tender No : 03012/2026-2027/E34041

Technical Criteria:

The bidder should have previous experience and having successfully completed similar works during last seven* years ending on enquiry date should be any one of the following:

- a) Three similar works completed costing not less than **₹ 6.2 lakh each**
Or
- b) Two similar works completed costing not less than **₹ 7.7 lakh each**
Or
- c) One similar works completed costing not less than **₹ 12.5 lakh**

Similar works means Heat Exchanger Re-tubing Work in Petrochemical / Refineries/ Oil & Gas/ Fertilizer/ Thermal/ Captive Power Plants for any Government/ Quasi government/ Public sector under takings/ Public limited companies/ Private limited companies

Bidder shall submit copies of relevant work orders completion certificate with final completed value.

*The commencement and completion date shall be during the last 7 years ending on enquiry date.

If the bidder is providing any subcontract document for prequalification, the completion certificate should be endorsed by the primary customer/client.

If the supporting documents for Pre- Qualification criteria are of work completed in any of the division of FACT, only the Work Order number and final completed date and value need to be mentioned.

Financial Criteria:

1. The bidder shall have an Average Annual Turnover of minimum Rs 5 Lakhs during the last three years ending 31/03/2026. Copies of Balance Sheet and Profit & Loss Accounts audited by a practicing Chartered Accountant / Certificate of Turnover issued by a Practicing Chartered Accountant shall be submitted as proof. If the audited financial statement for financial year 2025-2026 is not available, then average turnover of last three years ending on 31/03/2025 shall be considered for evaluation.

Note:

- a) All Pre-qualification documents shall be submitted online in COVER-1 and shall be complete in all respects, failing which the offer is liable to be rejected. The originals of the documents should be produced at the time of evaluation, if asked for.
- b) FACT reserves the right to have the financial and other data/credentials claimed by the bidder verified independently, if necessary by a third party. FACT also reserves the right to ask for any other documents in case considered essential in support of any of the PQ criteria or on the document submitted. If the data/credentials

furnished are found to be incorrect, FACT further reserve the right to reject the particular tender.

- c) FACT also reserves the right to reject any tender submitted by a party if it comes to know suo moto of any adverse reports on the certified claim submitted by the tenderer.
- d) The technical bids of the bidders not meeting the pre-qualification criteria will not be processed further and will stand rejected.
- e) The time period mentioned in above clauses shall be reckoned from the date of enquiry.
- f) BIDDER shall submit all supporting documents, certificates and credentials etc. in ENGLISH language only.

Note for micro & small enterprises and startups: Pre-qualification criteria specified above shall also be applicable for micro & small enterprises and startups without any relaxation.

INSTRUCTIONS TO BIDDERS

- 1.0 The bidder shall study carefully the Pre-Qualification criteria, Scope of work and Special requirements of the contract, Technical specifications, Instructions to Bidders, Proforma contract with schedules along with all other tender documents. All conditions set out there in shall be binding on the bidders unless conflicting with any conditions expressly stated by FACT while accepting any bid in the event of such acceptance. Copy of the Tender document shall be digitally signed by the bidders and shall accompany their Part-A bids, signifying their acceptance of the same. Bidder shall also submit along with his bid Pro forma on Information about Bidder and Bank transaction details duly filled and signed with all details required therein and with all relevant documents.
- 1.1 Before submitting the bid, the bidder shall familiarise himself, about the details of the work, operating conditions etc., collect all necessary data regarding the facilities available at FACT Cochin Division, and satisfy himself on all aspects relating to this work which he has to execute. Claiming lack of knowledge shall not be a reason for exoneration of the bidder of his contractual obligations or demand for increase in rate, in case a contract is awarded to him.
- 1.2 Offers against this NIT shall be submitted online **on e-Tendering portal <https://eprocure.gov.in>**, with valid digital signature certificate. Offers submitted on any other platform or in any other mode or including e-mails, physical offers etc., SHALL NOT be accepted.
- 1.3 All bidders are requested to register themselves on the above website with their valid digital signature certificate. It is mandatory for bidder to have valid digital signature certificate issued by any of the Certifying Authority approved by Govt. of India for participating in the tender. The cost of digital signature certificate shall be borne by the bidder. Bidders may refer "Bidders Manual Kit" available on the above website for detailed information and instructions for registration, bid submission etc.
- 1.4 The bidder shall be prepared to commence the work from date of issue of LOI /Work Order.
- 1.5 In case of award of work, the Contractor shall obtain required license from the Labour Department for employing his labourers, before commencement of the work. The Contractor shall also ensure coverage of his labourers under the PF and ESI Acts as applicable.
- 1.6 The offers of such bidders who meet PQ Criteria shall only be considered for techno-commercial evaluation and opening of price bids.
- 2.0 **Scope of Work:** Scope of work as detailed separately.
- 3.0 **Rates:**
- 3.1 Bidder shall quote his rates for the work only as per the Price Bid Format (BOQ) attached. Bidder shall quote for all items of work as per the Price Bid format. Bids not complying with the above are liable to be rejected.

3.2 The rate quoted for each item of work shall be inclusive of all costs towards statutory levies and payments, all establishment costs, labour registration, wages paid to the labourers, PF, ESI or other remittances on behalf of the labourers, accommodation and transportation of their officers etc., but excluding GST. In case the applicability of GST is not quoted explicitly in the offer by the Bidder, the offer will be considered as inclusive of all liabilities of GST. FACT will not entertain any future claim in respect of GST against such offers.

4.0 **Submission of bids:** The bid shall be submitted in two parts – Part- A Bid (Prequalification cum Techno-commercial bid) and Part- B Price Bid (Price Bid in BOQ).

Part- A Bid (Pre-qualification cum Techno-Commercial bid): This bid shall contain the following:

- i. All documents of this tender including Special requirements of the contract, Instructions to Bidders, General conditions, Unpriced Bid (Put tick mark on Quoted / Not quoted), Compliance statement, ANNEXURES, FACT safety rules etc.
- ii. Copy of GST registration certificate & PAN card
- iii. Copy of Earnest Money Deposit (EMD) payment mentioned in NIT.
- iv. Bidder should have experience in similar job as detailed in the Pre-Qualification criteria and the copies scanned from originals to prove the qualification as detailed in the pre-qualification criteria, shall be uploaded. **THE BIDDER SHALL PRODUCE THE ORIGINALS OF THE DOCUMENTS FURNISHED ALONG WITH THE PART A OF THE TENDER, AT ANY TIME, IF ASKED FOR, DURING THE EVALUATION OF PART A.**

5. **Part B:** The BOQ in the part B of the tender document shall be filled with quoted rate, GST Provisional Number and the SAC Code, which will be opened only after the Technical evaluation, is completed.

6. FACT reserves the right to extend without giving any reason the last date for submission and opening of bid. HOWEVER, ANY CHANGE IN THIS TENDER LIKE EXTENTION, CANCELATION, ETC WILL BE EFFECTED ONLY IN THE CPP PORTAL

7.0 FACT reserves the right to reject any or all bids without assigning any reason whatsoever. FACT's decision in this regard shall be final and binding on the bidders.

7.1 FACT reserves the right to call tenders from other parties in addition to parties found suitable by way of press advertisement under certain situation such as cartelisation or number of such parties are less, price bids received are less, or quoted rates are high or under any such circumstances which are detrimental to the interest of FACT, at its sole discretion. Further, FACT reserves the right to add any number of parties and at any time, to the suitable parties so considered by the company. The opinion of FACT in this behalf will be final and binding on the bidders/contractors.

8.0 **Evaluation of bids:** Bidders shall quote for all items of work in the Price Bid in excel Format. Bids not complying with the above will not be considered. Evaluation of bids and determination of the L1 bidder shall be based on the combined total value of all items of work quoted by the bidder in the Price Bid Format including plates, tubes, structural, pipes and fitting etc. The combined total value as above shall be computed based on the

- rates quoted by the Bidder against each item and the corresponding quantities indicated.
- 8.1 The following conditions shall be considered in the evaluation of quotations:
- Agreement with terms and conditions and schedules of Tender document;
 - Pre-qualification criteria
 - Price.
- 8.2 For bid evaluation, FACT shall make appropriate loadings to the quoted prices of Tenderer towards deviations in Commercial conditions.
- 8.3 In case more than one bidder becomes L1, the contract will be finalised based on revised lowest tendered amount which will be obtained from the L1 bidders. However, bidders will not be allowed to increase any of the original rates quoted by them in the revised bid submitted by them as above.
- 8.4 FACT reserves the right to reject any or all tenders without assigning any reason whatsoever. FACT also reserves the right to negotiate with the lowest bidder.
- 8.5 **This tender is non-divisible / non-splitable.**
- 9.0 **GST:** The basic rate quoted by the Bidder for all the works as per this tender shall be exclusive of applicable GST. GST rates applicable for each item shall be quoted separate in the BOQ. GST, if applicable for the work as per any statutory notification, shall be extra. If the GST is to be paid by the Contractor as per the relevant notification, he shall arrange to remit the same to the concerned authority and FACT shall reimburse the same to the Contractor based on documentary evidence. If the same is to be paid by FACT, the above shall be done by FACT directly.
- 9.1 Please also arrange to submit the following
- 9.2 The GST registration Number and details. In the case of Provisional ID, GST Registration Number shall be provided on receipt of the same.
- 9.3 Place of supply/Service
- 9.4 GST rates applicable for each item
- 9.5 HSN / SAC codes of each of the goods / services quoted in case of unregistered supplier, a declaration to that effect with reason should be furnished.
- 9.6 FACT's GST registration number in the state of Kerala is 32AAACT6204C1Z2.
- 9.7 The supplier/contractor shall confirm the following:
- Submit GST compliant tax invoice to FACT with FACT's GSTIN as 32AAACT6204C1Z2.
 - Shall ensure uploading the above invoice as per statute & File monthly returns in time enabling FACT to claim the input tax credit.
- 9.8 GST charged by the supplier/contractor shall be released separately to the supplier/contractor only after filing of the outward supply details & the monthly return on GSTN portal by the supplier/contractor and on matching the input tax credit to such invoice with the corresponding details of outward supply of the supplier/contractor.
- 9.9 In case FACT incurs any liability (like interest, penalty etc.,) due to denial/reversal of such input tax credit in respect of the invoice submitted by the supplier/contractor, for the reasons attributable to the supplier/ contractor, the same shall be recovered from the supplier/contractor
- 9.10 Further in case FACT is deprived of the input tax credit due to any reason attributable to the supplier/contractor, the same shall not be paid or recovered if already paid to the supplier/contractor.

10.0 EARNEST MONEY DEPOSIT:

10.1 EMD shall be remitted online through 'State Bank Collect' portal using the link given below:

[https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=9303&categoryName=Earnest%20Money%20Deposit%20\(EMD\)/SD%20Remittance](https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=9303&categoryName=Earnest%20Money%20Deposit%20(EMD)/SD%20Remittance)

The link is also available on of our website www.fact.co.in (Tenders ➔ 'Click Here to Pay EMD/ Security Deposit')

The bidder shall precisely indicate the Name of the bidder, Tender number and other relevant details while making the online payment through 'State Bank Collect' and the payment receipt generated shall be uploaded along with the tender document.

10.2 If the above link becomes inactive, EMD remittance may be facilitated via RTGS/NEFT. In such cases UTR No./ scanned copy of the payment receipt may be submitted along with the Part-A of the bid. Details of Bank A/c for remittance of EMD are given below:

Account Type	: Cash Credit
Account No	: 57017844467
IFS CODE	: SBIN0070158
Name of Bank	: State Bank of India
Branch	: Udyogamandal
District	: Ernakulam
State	: Kerala.

10.3 Bids without EMD shall be rejected except in the following cases: EMD will be exempted for Govt. Depts. / firms, public sector units, Micro and Small Enterprise units registered under MSMED Act (subject to Declaration of Udyam Registration Numbers by the vendors on CPP Portal and uploading the copy of latest valid Udyam Registration Certificate along with their bid). Also EMD is exempted for government departments/PSUs /Khadi board/ registered labour contract cooperative societies, etc. as per applicable govt. directions, on submission of valid documents in proof of the same.

10.4 No interest shall be paid on EMD.

10.5 If any bidder retracts from or revises his bid during its validity period or fails to submit Security Deposit and execute the required Agreement if the contract is awarded or fails to commence execution of the work on the stipulated date, the EMD/SD furnished shall be liable to be forfeited without prejudice to FACT's right to claim damages.

10.6 In case the bidder whose bid is accepted, fails to deposit the prescribed Security Deposit or fails to execute the agreement or fails to commence the execution of the work within the specified time, the contract issued to him is liable to be cancelled and the Earnest money already deposited by the contractor shall be forfeited without any further reference to the contractor and alternative arrangements made at the risk and cost of the Contractor.

10.7 On the successful tenderer entering into an agreement and providing the Performance Bond, the EMD will be released. EMD of unsuccessful bidders will be returned after acceptance of a tender is finally settled.

10.8 Declaration of Udyam no on CPPP is mandatory; failing which bidders will not be able to enjoy the benefits as per PP policy. Bidders will get the benefit of PP policy only if they are MSE bidders at the time of submission of their offers.

PRPD. BY :AS

CHKD. BY :SNK

APPRD. BY :SKG

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10.9 Government of India has implemented Trade Receivable Discounting System (TReDS) to address challenges faced by MSMEs in delayed payments from Government buyers. TReDS is an online electronic institutional mechanism for facilitating the financing of trade receivables of MSMEs through multiple financiers. FACT is registered on the TReDS platform by Receivable Exchange of India Limited (RXIL), Mumbai. The MSME vendors can avail the TReDS facility, if they want to.

11. PURCHASE PREFERENCE:

Being a WORKS CONTRACT, purchase preference as per 'MSE PP Policy-2012' is not applicable for this job.

12. The bids shall be valid for a period of number of days mentioned in the NIT from the date of opening of Part-1(Prequalification cum Techno-commercial) Bids, unless otherwise mentioned in the NIT.
13. The bid shall be digitally signed by the bidder. Incomplete bids are liable to be rejected.
14. Enquiry documents are not transferable. Bidders shall meet all expenses in connection with submission of his bid, attending the bid opening, meetings if required.
15. Bidder shall clearly indicate the time (number of days) required for mobilisation /commencement of work from the date of Letter of Intent (LOI) / Work Order.
16. Work order shall be issued by SM, Materials department, FACT LTD, Udyogamandal. The work shall be administered and executed by the Mechanical Maintenance dept, FACT-UC.
17. Any further information on site familiarization/ nature of work, if required by the bidders, can be had from SMM(M) AC (0484 2567709).

For any clarification on this enquiry, the DM(Mat)F, Phone No: 0484 2568674, Contracts department, Corporate Materials, FACT-PD Administration Building, Udyogamandal, Cochin, may be contacted.

18. The bidders are advised to get themselves informed of all the details they require before submitting their bids.
19. FACT has introduced a new ERP system, wherein, the activities related to evaluation of bids, certification of bills, payments etc. are being simplified.
20. For any disparity with the conditions, the SCH Q1 shall prevail.
21. FRAUD PREVENTION POLICY: Bidders shall comply with Fraud Prevention Policy of FACT 2012 (FPPF 2012). The said Policy is available in FACT Website www.fact.co.in
22. Bids from bidders against whom any criminal case, enquiry or investigation/report by authorities like Vigilance, CBI etc., are pending in relation with FACT or bidders who are defaulting contractors of FACT shall be disqualified and rejected.
23. FACT reserves the right to reject any or all bids without assigning any reasons

PRPD. BY :AS

CHKD. BY :SNK

APPRD. BY :SKG

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COROPRATE MATERIALS -
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TRAVANCORE LIMITED

whatsoever, and / or based on the past unsatisfactory performance by bidders at FACT / other PSEs / Govt. Departments. The opinion of FACT regarding the same shall be final and conclusive.

24. All tender documents should be signed digitally while uploading in CPP portal. All other documents (PQ documents, financial documents, Compliance statement, Un-priced bid, Deviation statement if any, ANNEXURE, Attachments if any etc.) shall be filled wherever applicable, signed and seal affix and shall be uploaded in CPP portal. Scanned copy of Solvency and EMD are also shall be uploaded in the portal.

25. **ACCEPTANCE OF TENDER AND ISSUE OF LOI/WORK ORDER:** The acceptance of the bid will be intimated to the successful bidder, who will be called CONTRACTOR thereafter, through a Letter Of Intent (LOI) or a Work Order. If an LOI is issued first, this will be followed by a Work Order. The duplicate Copy of the Work Order will have to be returned to FACT duly signed on all pages as token of acceptance of the Work Order. Within 15 Days from the receipt of LOI/Work Order whichever is issued first, the CONTRACTOR will have to remit the required Security Deposit for the Work. Also as prescribed in the LOI/Work Order/tender documents, the contractor will have to execute an agreement in stamp paper of the required value as per the proforma prescribed by FACT for the satisfactory performance of the contract. In case the CONTRACTOR fails to accept the Work Order or fails to deposit the prescribed Security Deposit or fails to execute the Agreement or fails to commence the execution of the work within the time specified in the LOI/Work Order/Work to Proceed Notice, the LOI/Work Order issued will be cancelled and the party will be disqualified from bidding for any contract with FACT for a period of Three years from the date of notification.

26. MAKE IN INDIA

26.1 Being a WORKS CONTRACT, 'MSE PP Policy-2012' is not applicable for this job.

26.2 MAKE IN INDIA

26.2.1 Purchase preference shall be applicable only to Class 1 local suppliers (suppliers or service providers whose goods, services or works offered for procurement has local content equal to or more than 50%) in the manner specified in the latest Revision of Public Procurement (Preference to Make in India) Order 2017, and amendments thereto, subject to orders issued by Deptt. of Fertilisers, Govt. of India.

26.2.2 For the purpose of extending purchase preference as in Cl. 26.2.1 above, margin of purchase preference shall be 20% or as defined in the above Orders, unless specified otherwise in the Enquiry.

26.2.3 When supply / service as per the tender is divisible in nature, Class 1 Local Suppliers quoting within the price band prescribed in Cl.26.2.2 above shall be allowed to supply / execute a portion of the requirement as prescribed in the Make in India Order, subject to conditions as mentioned therein.

26.2.4 When supply / service as per the tender is non-divisible or non-splitable in nature, Class 1 Local Suppliers quoting within the price band prescribed in Cl.26.2.2 above (in ascending order) may be awarded full as prescribed in the Make in India Order, subject to conditions as mentioned therein.

26.2.5 To claim benefits under Make in India Order, the bidder shall provide self certification or such other certificate(s) as prescribed in the Order, as applicable, that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

27. DISPUTES:

If the Contractor is not a Central Public Sector Enterprise/Central Government Department: If any dispute arises out of or relating to or in connection with this CONTRACT, between the CONTRACTOR and the OWNER/FACT, the same shall be amicably settled through mutual discussions, failing which, the unresolved dispute(s) shall be referred to arbitration in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time. The number of Arbitrator shall be one. The venue of the Arbitration shall be at Ernakulam and the proceedings shall be in ENGLISH.

If the CONTRACTOR is a Central Public Sector Enterprise or Central Government Department: In the event of any dispute or difference relating to the interpretation and application of the provisions of this contract(s) between Central Public Enterprises (CPSEs)/Port Trusts inter se and also between CPSEs and government departments / Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute/ difference shall be taken up by either Party for resolution through AMRCD as mentioned in DPE OM No. 4(1)2013-DPE(GM)/FTS-1835 dated 22.05.2018."

Any legal proceedings relating to or in connection with this CONTRACT shall be limited to the exclusive jurisdiction of the High Court of Kerala.

Whenever any portion of the "Special Requirement of the contract" or "Notice Inviting Tender" (NIT) is repugnant to or at variance with any provision of this document "Instructions to Bidders", the respective provisions of "Special Requirement of the contract" or "Notice Inviting Tender" (NIT) shall prevail. Similarly, whenever any portion of the "Proforma Contract" is repugnant to or at variance with any provision of this document "Instructions to Bidders", the respective provisions of "Instructions to Bidders" shall prevail.

FACT CORPORATE MATERIALS - CONTRACTS	FORM OF BID	Page 1 of 1
Tender No : 03012/2026-2027/E34041		ATTACHMENT- II A

Senior Manager (Mat)-C

JOB: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

Sir,

Having examined the tender documents for the above named works including Special requirements of the contract, Pre-qualification criteria, Instructions to Bidders and Proforma Contract along with Schedules, we the undersigned offer to carry out the above named works in accordance with the terms and conditions set forth in this tender comprising the following documents:

1. Conditions of Tender and Instructions to Bidders, Special requirements of the contract
2. Data furnished as per Attachment - II A to C
3. Proforma Contract along with Schedules
4. Selected deviations if any (Compliance Statement), Vendor Data Form and Master Data (for new vendors).

Until such time a contract is executed, this tender together with any later or amended tender as may be requested by you, correspondence in writing between the parties and any minutes of discussions shall constitute a binding contract between us.

Signature of Tenderer :

Name & Position :

Name & address of Contractor :
.....

Place & Date :

WITNESS:

Name :

Position :

Address :

FACT CORPORATE MATERIALS CONTRACTS	INFORMATIONS RELATING THE BIDDER	PAGE 1 OF 1
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NAME OF WORK: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

1. Following certificates to be uploaded online in original/ self-attested:

i. Documents mentioned in the PQ Criteria.

- ii. **Audited Balance Sheet and Profit-Loss statements** for the last three years ending 31st March, 2026 including Profit & Loss account, Schedules, Notes on accounts, Auditors report, Directors report etc. If the audited financial statements for financial year 2025-2026 is not available, then average turnover of last three years ending on 31/03/2025 shall be considered for evaluation.
- iii. **GST Registration Certificate, PAN card.**
2. Attach copies of **Work Order with Schedule of Items of work** as proof of similar work experience.
3. Tenderer shall give **INFORMATION OF SIMILAR WORKS** done during the past seven years for satisfying **PQ Criteria** with name of work, brief scope of work, initial & final contract value and work completion period.
4. Tenderer shall give details of his **PRESENT COMMITMENTS** with details of work, initial contract value, period of completion, name of client, expected date of completion, percentage progress etc.
5. Tenderer shall submit the details of **CONSTRUCTION PLANT AND EQUIPMENT** available with him for using in this work.
6. Tenderer shall attach his proposed **SITE ORGANIZATION CHART** in “**FAMILY TREE**” form, showing the number and grades of field supervisory, administrative and craft personnel to be employed in the works.
7. Tenderer shall attach resumes of all proposed **KEY PERSONNEL** of his organization to be associated with the work, detailing their qualifications and experience over the past 10 years.
8. Detailed programme of work in **PERT or BAR CHART form or a Statement** form with respect to **FACT’S requirement** high-lighting all important milestones to accomplish satisfactory completion of WORK within the stipulated completion period.

CORPORATE MATERIALS - CONTRACTS	FORM OF BID	Page 1 of 1
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NAME OF WORK: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

DETAILS REGARDING INPUT TAX

1. Whether GST is applicable for this work – Yes/No
2. If Yes, bidder is requested to quote the GST extra as applicable.
3. If No, GST exemption certificate for a declaration that service is outside the preview of GST is attached - Yes/No

Note:

1. Strike off whichever is not applicable
2. GST % shall be entered in the respective field in **BOQ**.

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Name of work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

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SCHEDULES

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SCHEDULE – D	- SITE CONDITIONS
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ARTICLE-1 DEFINITIONS

The following expressions shall have the meanings specified against the respective item, wherever used in this document, unless repugnant to the context and meaning thereof.

- 1.1 CONTRACT means this Agreement including the Articles, Schedules, Annexes and Appendices as listed in the List of Titles forming part hereof and any written amendments thereto executed by authorized signatories on behalf of the parties hereto.
- 1.2 'DATE OF CONTRACT' means the Date on which CONTRACT is signed by either party after signature by the other
- 1.3 'WORK' means all duties, responsibilities and obligations to be discharged by CONTRACTOR pursuant to CONTRACT.
- 1.4 'EQUIPMENT' means any item of plant and machinery, equipment accessory or thing supplied by FACT to be erected /installed by CONTRACTOR.
- 1.5 'PROJECT' means the facility being set up by OWNER as per details and location in SCHEDULE-D.
- 1.6 'SITE' means the land in possession of OWNER where PROJECT is being set up and WORK is to be performed by CONTRACTOR.
- 1.7 'INITIAL CONTRACT PRICE' means the value of WORK contracted initially as per SCHEDULE- F and excluding value of EQUIPMENT, services and any material provide by FACT free of cost to CONTRACTOR.
- 1.8 'CONTRACT PRICE' means the aggregate sum payable by FACT to CONTRACTOR for work performed as per CONTRACT but excluding value of EQUIPMENT, services and any material provided by FACT free of cost to CONTRACTOR.
- 1.9 'FACT REPRESENTATIVE' shall have same meaning as defined in Article-6,1 hereof.
- 1.10 'ENGINEER-IN-CHARGE' shall have same meaning as defined in Article -6.2 hereof.
- 1.11 CONTRACTOR'S REPRESENTATIVE' shall have the same meaning as defined in Article-7 hereof.
- 1.12 'ZERO DATE' means the date on which CONTRACTOR'S responsibilities for time-schedule commences as defined in Article -4.1.

ARTICLE-2 PERFORMANCE BOND

- 21 Within fifteen (15) days of the ZERO DATE, CONTRACTOR shall provide FACT with a Bank Guarantee as per Proforma given in SCHEDULE-L hereof, from a Nationalized Bank/ Scheduled Bank in India for a sum calculated at ten percentage (**10 %**) of the initial Contract Price, towards security for due and faithful performance of CONTRACTOR. The Bank Guarantee shall be kept valid until all obligations of

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CONTRACTOR including the warranties vide Article-30 are fulfilled and a discharge certificate is issued by FACT.

- 2.2 However, in case the amount of Performance Bond is less than Rs. 5,000- CONTRACTOR shall remit the amount online through 'State Bank Collect' portal using the link given below:

[https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=9303&categoryName=Earnest%20Money%20Deposit%20\(EMD\)/SD%20Remittance](https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=9303&categoryName=Earnest%20Money%20Deposit%20(EMD)/SD%20Remittance)

for a sum calculated at **10% of** the initial Contract Price in lieu of the Bank Guarantee referred to in Article - 2.1 within 15 days of ZERO DATE. No interest is payable by FACT to CONTRACTOR for such depositsNo interest is payable by FACT to CONTRACTOR for such deposits

The link is also available on of our website www.fact.co.in (Tenders ➡ 'Click Here to Pay EMD/ Security Deposit').

ARTICLE-3 SCOPE OF SERVICES

- 3.1. CONTRACTOR shall carry out WORK as described in detail in SCHEDULE - A - Schedule of Work, all in conformity with the drawings, specifications, codes, standards and instructions provided by FACT from time to time or specified herein as applicable.
- 3.2. CONTRACTOR'S responsibility includes preparation of any detailed working drawings, cutting diagrams, fabrication drawings and / or such other technical documentation as may be necessary to elaborate the information provided by FACT in the manner described in Article - 5.4 hereof.
- 3.3. CONTRACTOR shall also purchase and provide for use in carrying out WORK, pre-fabricated or otherwise, such items of materials and supplies as are required for carrying out WORK in addition to EQUIPMENT and materials directly provided by FACT
- 3.4. The quantities indicated in SCHEDULE - A and / or Schedule - F are only approximate and CONTRACTOR shall carry out all items of WORK in required quantities as per drawings and specifications provided by FACT subject to provisions of Article -15 hereof.
- 3.5. Work shall be executed with all due diligence, in the manner specified herein, to the satisfaction of FACT- REPRESENTATIVE within the time schedule agreed to herein for the respective item. CONTRACTOR shall post at SITE appropriate number of qualified and competent supervisory staff for day-to day supervision of work.
- 3.6. Workmen engaged by CONTRACTOR shall be qualified, experienced and competent for the respective item of works and will be subject to craft-test prescribed by ENGINEER - IN -CHARGE. Where necessary, supervisors and workmen engaged by CONTRACTOR shall hold licences / permits for carrying out the respective work.
- 3.7. CONTRACTOR further undertakes to co-operate with FACT as well as other Contractors appointed by FACT and operating at SITE and agrees to freely exchange technical information as may be reasonably asked for by FACT

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ARTICLE-4 TIME-SCHEDULE

- 4.1. CONTRACTOR shall carry out work in a phased manner and hand over the respective items to FACT after carrying out such tests as are prescribed herein within the programme given in SCHEDULE B - PROGRAMME OF WORK. The responsibilities of CONTRACTOR in respect of programme vide SCHEDULE - B will be effective from the date on which Letter of Intent has been issued by FACT and indicated as 'ZERO DATE' in the said SCHEDULE - B, provided that FACT gives CONTRACTOR, any mobilisation advance if agreed to herein within 15 days of receipt from CONTRACTOR the related invoice along with the Performance Bond vide Article - 2 hereof and the Bank Guarantee towards Security for such advance payment vide Article -14 hereof both in the prescribed Proforma.
- 4.2. Time is the essence of CONTRACT and CONTRACTOR understands the necessity of achieving the stage-wise targets in the specified sequence as set-forth in SCHEDULE - B and hereby undertakes to mobilise the required resources and exercise due diligence to adhere to them. During the implementation of CONTRACT, FACT may issue to CONTRACTOR, where applicable, instructions/ requirements in respect of priorities and sequence in the overall interest of the PROJECT and CONTRACTOR shall fully co-operate with FACT in following these instructions and submit to FACT detailed working programmes for achievement of these, which shall be reviewed and approved by ENGINEER - IN - CHARGE.
- 4.3. Within 30 days of ZERO DATE, CONTRACTOR shall give to FACT in triplicate a detailed programme for assembling materials, submission of fabrication drawing/cutting diagrams, etc. mobilisation of Construction Equipment, Tools and Tackles, mobilisation of skilled and unskilled labour in various categories / disciplines at various phases of work, pre-fabrication in shop, pre-fabrication at SITE, assignment of supervisory personnel and such other activities, matching with the Programme of work vide SCHEDULE - B. In the event FACT is not satisfied that the programme proposed by contractor is adequate to meet targets set forth in SCHEDULE-B, CONTRACTOR shall modify the programme suitably to the satisfaction of FACT and carry out the activities accordingly.
- 4.4. CONTRACTOR recognizes possibility of inclement weather conditions at SITE and agrees to take all reasonable precautions and measures necessary to permit execution of WORK as per agreed programme despite such adverse conditions and CONTRACTOR shall not be entitled for any additional payment what so ever, on this account.
- 4.5. CONTRACTOR shall not be entitled for extension of time - schedule for any reason whatsoever except as provided in Articles -15.7,32.2 and 40.3 hereof.

ARTICLE-5 TECHNICAL DOCUMENTS

- 5.1. The Technical Documents enclosed as part of SCHEDULE - C hereof are, unless otherwise specified, preliminary and typical and are intended only to generally represent the nature of WORK to be executed. FACT will be issuing to CONTRACTOR, from time to time, final and more detailed drawings and documents as are listed in SCHEDULE-C as also new drawings whenever necessary to depict the scope of work.

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CONTRACTOR shall execute WORK only based on documents bearing the stamp" GOOD FOR CONSTRUCTION".

- 5.3 Documents once issued by FACT for construction may subsequently be revised without prejudice to Article -15 hereof; and as soon as the revised issues are received CONTRACTOR shall withdraw the previous issue from the field and return to FACT for cancellation.
- 5.4 CONTRACTOR shall carryout the WORK in strict conformity with the drawings, specifications and such other documents and instructions provided by FACT and standards and codes of practice prescribed by FACT for the respective items of WORK. Where FACT's own standards are referred to, the same will be provided by FACT; but where other published standards/codes of practice are prescribed, CONTRACTOR shall make own arrangements to be equipped with copies of such documents for use in execution of WORK and failure to do so shall be deemed negligence in performance of CONTRACT. In the event of any conflict or contradiction between any two or more of the documents provided by FACT or between such documents and the prescribed codes/standards, CONTRACTOR shall bring the same to the attention of ENGINEER - IN CHARGE as soon as it is noticed by CONTRACTOR; and the decision of the ENGINEER - IN CHARGE shall be followed.
- 5.5 Wherever necessary CONTRACTOR shall prepare detailed working drawings, cutting diagrams, fabrication drawings and/ or such other technical documents all in conformity with Technical Information provided by FACT and as may be necessary for execution of WORK and submit same to FACT in required number of copies well in advance in commencement of related WORK. FACT shall return one copy to CONTRACTOR with comments, if any, within Ten (10) working days of receipt from CONTRACTOR and CONTRACTOR shall execute WORK only based on documents reviewed / approved by FACT. However, CONTRACTOR is solely responsible to ensure that WORK is executed as per designs, drawings, specifications and other technical information provided by FACT and review / comments by FACT in the aforesaid manner of CONTRACTOR'S documents shall not absolve CONTRACTOR of his responsibility
- 5.6 Installation of special items of EQUIPMENT shall be taken up only after thorough study of Manufacturer's instructions for handling, assembly and installation, detailed circuit diagram, etc. as may be applicable as per SCHEDULE - A and where such information is not received CONTRACTOR shall ask for the same.

ARTICLE-6 FACT's REPRESENTATIVE

- 6.1 All obligations under CONTRACT shall, unless otherwise specifically mentioned, be carried out through Engineer-in-charge. The Engineer-in-charge at SITE shall be FACT's REPRESENTATIVE, and shall represent FACT for all matters concerning this CONTRACT except as otherwise provided herein.
- 6.2.1 All instructions and orders to CONTRACTOR shall be issued by FACT's REPRESENTATIVE and /or an ENGINEER - IN CHARGE nominated by him and communicated in writing to CONTRACTOR'S REPRESENTATIVE, if available at SITE or to CONTRACTOR at the address given in Article - 47. WORK shall be executed under direction and to the satisfaction of the ENGINEER - IN CHARGE, all in accordance with the provisions. CONTRACTOR shall proceed with WORK in accordance with the decisions, orders and / or instructions issued by FACT's REPRESENTATIVE or the ENGINEER - IN - CHARGE provided that,

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i) If the CONTRACTOR shall without undue delay after being given a decision, order or instruction otherwise than in writing, require it to be confirmed in writing, such decision, order or instruction shall not be effective until written confirmation thereof has been received by CONTRACTOR, and

ii) If the CONTRACTOR disagrees with or questions a written decision, order or instruction given by ENGINEER - IN CHARGE he may give notice in writing to ENGINEER - IN CHARGE within seven (7) days of receipt of such decision, order or instruction stating reasons there for; but issue of such notice shall not relieve CONTRACTOR of the obligation to proceed with WORK in accordance with the decision, order or instruction in respect of which the notice has been issued, without prejudice to other remedial measures provided herein.

6.3 FACT may change the FACT'S REPRESENTATIVE and/or ENGINEER IN CHARGE at any time, and shall inform CONTRACTOR promptly, in writing, of such changes.

ARTICLE-7 CONTRACTOR'S REPRESENTATIVE

7.1 CONTRACTOR shall be represented at SITE by a technically qualified, competent and experienced Engineer whose name along with qualification and experience shall be intimated to FACT in writing at least 2 weeks prior to commencement of CONTRACTOR'S activities at SITE for approval by FACT. The said representative shall be present at SITE during working hours and any orders, instructions or other communications delivered to him by FACT, FACT's REPRESENTATIVE and / or ENGINEER- IN - CHARGE shall be deemed to have been received by CONTRACTOR.

7.2 Any communication received by FACT from CONTRACTOR'S REPRESENTATIVE shall be deemed issued by CONTRACTOR and shall be binding on CONTRACTOR.

7.3 CONTRACTOR shall not change the Representative at SITE without prior written approval of FACT

ARTICLE –8 CONTRACTOR TO INFORM HIMSELF

8.1 Certain information pertaining to SITE and considered relevant for the execution of WORK are given in SCHEDULE - D - SITE CONDITIONS. Some of the information given therein are likely to be typical and are intended only to give a general idea about SITE. CONTRACTOR is deemed to have visited the SITE and the locality and to have gathered clear idea of the locality, weather conditions, access to SITE space availability, sub - soil conditions, availability of materials, availability and terms of service by labour and such other information that may have influence on execution of WORK.

8.2 CONTRACTOR is deemed to have carefully examined specifications, schedules and drawings and also to have satisfied himself on the nature and extend of WORK to be executed before submission of a tender and entering into CONTRACT.

ARTICLE-9 SUPPLIES BY FACT

9.1 EQUIPMENT

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- 9.1.1 EQUIPMENT and any materials to be provided by FACT will be issued by FACT and handed over to CONTRACTOR at the place of storage. Place of storage will be FACT store at SITE or the open storage yard at SITE or at ground level near the plant premises where EQUIPMENT is to be erected depending upon FACT convenience and all moving and handling from the place of storage to the actual place of WORK or the basement on which EQUIPMENT is to be erected, is to be carried out by CONTRACTOR.
- 9.1.2 It is likely that EQUIPMENT stored out-door are in the packing case and CONTRACTOR shall have to open the packing cases and inspect the items before taking over.
- 9.1.3 EQUIPMENT items, which are shipped in parts, will have to be assembled by CONTRACTOR prior to installation. Any special tools provided by Manufacturer for this purpose will be made available to CONTRACTOR against appropriate receipt; but all other tools and tackles will have to be provided by CONTRACTOR. Special tools, if any provided by FACT shall be returned to FACT immediately after use.
- 9.1.4 EQUIPMENTS shall be handled by CONTRACTOR very carefully in a professional and workman like manner. In the event of any damage to EQUIPMENT or part thereof due to negligence or use of wrong tool or wrong practices in dismantling, handling, assembling and / or installation or careless storage after taking over by CONTRACTOR, CONTRACTOR shall not only be liable to pay the cost of repair/ replacement but also liquidated damages vide Article - 31 hereof for delay in completion of the related WORK beyond the guaranteed date to the extent such delay as occurred on account of repair/ replacement.
- 9.2 MATERIALS
- 9.2.1 Materials issued by FACT (if any as per contract) for use in fabrication / installation by CONTRACTOR are listed in SCHEDULE-E.
- 9.2.2 Materials will be issued to CONTRACTOR from FACT's Store at SITE against appropriate indent in the form provided by FACT, countersigned by the ENGINEER - IN- CHARGE and transport from store to place of WORK will have to be done by CONTRACTOR. CONTRACTOR shall hold such material in safe custody and shall maintain proper accounts of its use. Such accounts shall be available for inspection by FACT, if required. No material shall be removed from SITE without written approval of FACT.
- 9.2.3 Materials will be issued only during normal working hours of the SITE Store.
- 9.2.4 The maximum cutting allowance and wastages permissible for each item of material is shown in SCHEDULE - Q. CONTRACTOR is not entitled to receive from FACT quantities in excess of those legitimately required including the cutting allowance and wastages and FACT may refuse issue of excess quantities required consequent to wastage in any manner by CONTRACTOR. In such cases CONTRACTOR may have to make his own arrangements for the additional quantities, required at his own cost and carry out WORK within the agreed time. However, FACT may issue such additional quantities, if available, and recover from the bills of CONTRACTOR at rate specified for this purpose in SCHEDULE – E in the absence of such rates at FACT'S book value or market rate whichever is higher, plus 15% thereof.
- 9.2.5 In case of urgency, FACT may at the request of CONTRACTOR and at the sole discretion of FACT issue to CONTRACTOR any material required for the WORK but not included in SCHEDULE - E and cost of such issues shall be paid by CONTRACTOR to FACT'S account in advance at price specified by FACT.

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- 9.2.6 Any excess materials drawn by CONTRACTOR, but not used in WORK shall be returned to FACT'S Store at SITE and receipt obtained; and credit will be given for the quantity so returned.
- 9.2.7 CONTRACTOR shall return to FACT the cut pieces and scraps of material issued by FACT as well as any containers in which they are issued. Such items shall be properly accounted and delivered at the dump-yard at SITE indicated by FACT and no credit will be given to CONTRACTOR on this account.
- 9.2.8 In case it is observed that CONTRACTOR has used materials in quantity less than what is legitimately required, and the ENGINEER - IN CHARGE is not satisfied with the reason given by CONTRACTOR, CONTRACTOR shall have to dismantle the work so executed and re-do the same at no cost to FACT. In any case the contract price will be adjusted for such short - usage.
- 9.2.9 FACT gives no assurance that material to be issued by FACT will be readily available as and when indented by CONTRACTOR, CONTRACTOR is advised to give a monthly programme of his requirement for each calendar month at - least 30 days prior to the first of the calendar month. This programme should indicate the expected requirement in sizes, and quantities and the dates on which required. If CONTRACTOR fails to take such advance action, he shall not be entitled for any extension of time - schedule consequent to delay by FACT in issue of materials, even if such delay has affected WORK.

ARTICLE-10 MATERIALS BY CONTRACTOR

- 10.1 CONTRACTOR shall procure in time at his own cost and use in WORK all materials required in carrying out WORK other than EQUIPMENT and materials issued by FACT vide Article - 9 hereof. Materials so procured and brought to SITE shall be stored by CONTRACTOR at place allotted for the purpose by ENGINEER - IN - CHARGE and security arrangements shall be made by CONTRACTOR. CONTRACTOR shall provide such materials in sufficient quantities and in time so that WORK can be proceeded with uninterruptedly and shall take advance action in procurement of items, which are in scarce supply or availability of which are seasonal.
- 10.2 Materials provided by CONTRACTOR shall be brand new and of specification agreed to herein or as approved by ENGINEER - IN - CHARGE. Materials brought to SITE shall be used in WORK only after approval by ENGINEER - IN - CHARGE and if so required by him, CONTRACTOR shall provide test certificates and / or samples for verifying the quality. Mill certificates covering physical and analytical tests are to be produced as called for by ENGINEER - IN-CHARGE at no extra cost. If any further tests are to be carried out CONTRACTOR shall arrange for the same at no additional cost to FACT. CONTRACTOR shall declare the manufacturer's name of such materials and provide, if asked for, evidence relating to the source and purchase there from. Decision by ENGINEER - IN - CHARGE shall be final and binding on CONTRACTOR in respect of whether the material provided is conforming to agreed specification or not.
- 10.3 Rejected material shall be removed by CONTRACTOR from SITE immediately.
- 10.4 Approval by ENGINEER - IN - CHARGE or any other representative of FACT shall not relieve CONTRACTOR of his responsibility to use material of specified quality suitable for WORK and re- work

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necessitated consequent to use of sub-standard materials shall be promptly carried out by CONTRACTOR, free of cost to FACT, irrespective of whether the item was approved by FACT or not.

ARTICLE- 11 QUALITY OF WORK

- 11.1 CONTRACTOR shall execute WORK in the most substantial, professional and workman -like manner in full conformity to the drawing and specifications and instructions provided by FACT.
- 11.2 CONTRACTOR shall be responsible for the dimensional accuracy of WORK carried out within the measurement tolerance specified. In case where no measurement tolerance is specified, decision of ENGINEER - IN - CHARGE shall be final in respect of whether an item of WORK carried out conforms to required standard of dimensional accuracy or not.
- 11.3 Any designs carried out by CONTRACTOR shall be done in a professional and engineer - like manner in conformity with applicable standards and codes of practice.
- 11.4 CONTRACTOR shall be responsible to ensure that WORK executed conforms to applicable statutory regulations in force on the date on which Letter of Intent is issued by FACT. In the event of any change in such statutory regulations or any new regulations becoming effective after the date of Letter of Intent that have influence on WORK, CONTRACTOR shall promptly notify FACT of the consequent changes required in WORK and its impact, if any, on cost and time - schedule agreed to herein and the provisions of Article -15 hereof will thereafter apply

ARTICLE-12 INSPECTION BY FACT

- 12.1 ENGINEER - IN - CHARGE or any other designated representative of FACT shall at all reasonable times be entitled to inspect WORK or any part thereof. CONTRACTOR shall provide all necessary assistance to FACT and shall make available all necessary scaffolding, tools and testing equipment to enable FACT to carry out such inspection /tests. CONTRACTOR shall uncover any part of WORK or make openings for inspection as ENGINEER - IN - CHARGE may direct and make good such part to the reasonable satisfaction of FACT.
- 12.2 On receiving notice from CONTRACTOR that WORK or part thereof is ready for inspection, ENGINEER - IN -CHARGE shall without unreasonable delay attend for the purpose of inspecting the related item of WORK. When tests are completed satisfactorily, CONTRACTOR shall give the test - certificates within Five (5) days of completion of tests of signature by ENGINEER - IN - CHARGE. ENGINEER - IN - CHARGE may waive at his discretion, right to attend any tests; but this shall not relieve CONTRACTOR of his responsibility to carry out necessary tests at each stage of WORK and provide the test - certificates.
- 12.3 Whenever it is necessary to cover up any item or WORK in respect of which previous inspection is desired and CONTRACTOR has been notified accordingly in writing, CONTRACTOR shall give five (5) days notice in writing to ENGINEER - IN - CHARGE before the said item is covered up. No such WORK shall be covered up or built upon unless it has been inspected and approved by ENGINEER - IN - CHARGE or his consent in writing to this being done without prior inspection has been obtained.

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- 12.4 CONTRACTOR will, if so required by FACT, provide specified numbers of test certificates, material analysis certificates and / or radiographic examination reports at no extra cost.
- 12.5 All tests shall be carried out as per procedure agreed to herein. If no such procedure is agree to herein the procedure laid out in applicable standards / codes and as approved by ENGINEER - IN - CHARGE shall be followed. If in the opinion of ENGINEER - IN – CHARGE any tests carried out is not properly conducted, CONTRACTOR shall have to re - do the same at no additional cost to FACT.
- 12.6 If in the opinion of ENGINEER - IN - CHARGE results of any tests carried out is not reasonably satisfactory, he may reject the portion of WORK for which the test is not satisfactory and CONTRACTOR shall dismantle the rejected portion and re - do the same at no additional cost and such repair/ re - work shall be subjected to further inspection/test in the above - said manner.
- 12.7 That an item of WORK has been approved at the time of setting out or in stage - wise inspection /test dose not relieve CONTRACTOR of his responsibilities under Article - 21 and Article – 30 thereof.
- 12.8 FACT reserves the right to engage or for participation of representatives of FACT'S Licensor or collaborator or any third party inspection agency that FACT may appoint for the purpose, in inspection and testing of WORK and such representative may exercise with CONTRACTOR such authorities as FACT may delegate to them.

ARTICLE-13 PRICE

- 13.1 In consideration of WORK, FACT shall pay CONTRACTOR the sum specified in SCHEDULE - F- PRICES. The sum specified in SCHEDULE - F include all costs to CONTRACTOR in carrying out WORK except cost of any material to be issued free of cost by FACT vide Article - 9 hereof.
- 13.2 The price specified in SCHEDULE - F is inclusive of all costs such as labour, materials to be supplied by CONTRACTOR, materials to be provided by FACT at CONTRACTOR'S cost, supervision, incidental charges such as loading and unloading, hoisting, setting out, temporary facilities, protective works, safety measures, tools and implements, construction equipment, hire charges of construction equipment provided by FACT, royalties, licenses, testing and calibration, removal of debris and clearing SITE on completion of WORK and maintenance of WORK required hereunder and any other cost incidental to carrying out WORK.
- 13.3 Without prejudice to provisions under Article -15, all prices shall remain firm till completion of WORK and shall not be subject to escalation of any description including those on account of delays due to Force Majeure, unless otherwise stated in SCHEDULE - F.
- 13.4 The price specified in SCHEDULE - F includes all Royalties, taxes, octroi, duties, levies and licence fees that CONTRACTOR may have to incur in performing WORK including purchase of materials to be provided by CONTRACTOR. It is understood that CONTRACT is a "WORKS CONTRACT" and is inclusive of Sales Tax / Value Added Tax /GST on the consideration receivable by CONTRACTOR, as also the Cess payable under The Building and Other Construction Workers Welfare Cess Act, 1996.

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- 13.5 The OWNER shall have the right to recover an amount equal to the Sales Tax on Works Contracts / Value Added Tax, /GST due in accordance with the provisions of the relevant Sales Tax Acts / Value Added Tax Act from every payment made to the CONTRACTOR including advance and remit the same to the respective assessing authorities under the Act. However, any CONTRACTOR who pays tax regularly in accordance with the rules and produces a certificate issued by the assessing authority to that effect, will be paid the contract amount without deduction of the Sales Tax / VAT/ GST due on the contract for the period and to the extend or for the Works Contract, specified in the certificate.
- 13.6 Amounts specified in SCHEDULE - F are subject to deduction of Income Tax and FACT shall withhold from the same such amount as is due at rates prevailing at the time of payment and remit the same to income tax authorities to the account of CONTRACTOR and provide CONTRACTOR with appropriate certificate of tax deduction. Any statutory variation in the rate of deduction of income tax shall not lead to any adjustment in Price.

ARTICLE-14 TERMS OF PAYMENT

FACT shall make payments to CONTRACTOR in instalments as specified in SHEDULE -G PAYMENT SCHEDULE

- 14.1 CONTRACTOR shall make all claims in the standard printed bill form prescribed by the FACT and claims shall be serially numbered. Claims shall be made in triplicate copies and shall be submitted to the ENGINEER - IN CHARGE.
- 14.2 In case mobilisation advance is agreed to in SCHEDULE - G, CONTRACTOR shall submit along with the invoice a Bank Guarantee from a Nationalist Bank in India, in the Proforma vide SCHEDULE - M and payment will be me within 15 days of receipt of the said documents.
- 14.3 Claims for part - payments shall not be more frequent than once a month. Any deduction to be made for materials issued by FACT or for hire changes of construction equipment provided by FACT will be deducted from the respective part bill and CONTRACTOR shall show such deductions also in the bill.
- 14.4 All part - payments shall be treated as payments on account and not as value of WORK done and on satisfactory completion of WORK and issue of taking over certificate CONTRACTOR will be paid the total amount due after deduction of any liquidated damages due under CONTRACT, less payments already made and any other recoveries due from the CONTRACTOR.

ARTICLE-15 CHANGE IN WORK

- 15.1 Any modification in specification and / or quantity of WORK due to any of the following reasons will constitute a CHANGE IN WORK.
- i) Increase or decrease in quantity of WORK as per final designs provided by FACT as compared to those specified in SCHEDULE - F hereof, hereinafter referred to as "Variation in Quantity"

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ii) Variation in specifications for any item of WORK as per final design given by FACT as compared to SCHEDULE - F hereof or consequent to changes made after date of Letter of Intent in applicable statutory regulations hereinafter referred to as "Variation in Specification"

iii) Any new items of WORK not specified or included in SCHEDULE - A and for which any price or rate of cost is not specified in SCHEDULE - F hereinafter referred to as "Extra Item".

iv) Any re-work necessitated by change in design by FACT of an item of WORK already executed by CONTRACTOR as per CONTRACT, hereinafter referred to as "Requested Re-work".

Any modification or re-work executed by CONTRACTOR by way of rectification of mistakes or making good defective WORK shall not be treated as CHANGE IN WORK.

- 15.2 In the case of "Variation in Quantity" of an item of WORK the Contract value for the item shall be adjusted pro-rata. In case aggregate increase or decrease in value of Contract due to Variation in Quantity and / or any other reason exceeds 25% of the Initial Contract Price as per Schedule - F the adjustment in price for such variations beyond the Initial 25% margin shall be discussed and agreed between the parties. However, CONTRACTOR'S prices shall be firm for variation up to (+) 25% of Initial Contract value.
- 15.3 In the event CONTRACTOR is called upon to carry out WORK with variation in specification but generally falling within the categories of WORK covered by CONTRACT, CONTRACTOR shall carry out the related CHANGE IN WORK without any extension of time-schedule. However, the price payable for the items affected by said variation in specification shall be determined based on rates agreed to in CONTRACT for other similar items; and in the absence of agreed rates for similar items it shall be determined in such manner as is specified for the purpose in SCHEDULE - F.
- 15.4 If CONTRACTOR is called upon to carry out any extra item, consideration receivable by CONTRACTOR for extra items shall be determined in the same manner as specified in Articles 15.3 above.
- 15.5 In the event CONTRACTOR is called upon to carry out any Requested Re-work, he shall be compensated for any dismantling, demolishing or reconstruction as is applicable and determined in the same manner as provided in Article 15.3 above
- 15.6 Notwithstanding the above, if specific provisions are made for the adjustment of price or method of determining the same in SCHEDULE - F or the Special Conditions of contract vide SCHEDULE - Q provisions therein shall prevail over such provisions in the Article -15 which are in conflict with them.
- 15.7 In the event CHANGE IN WORK is of a substantial nature and is likely to affect CONTRACTOR'S obligations in respect of Time Schedule, CONTRACTOR shall request ENGINEER - IN - CHARGE in writing of any extension of time schedule require giving reasons therefore as such extension shall be effective only when approved by FACT.

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ARTICLE –16 VARIATIONS & OMISSIONS

- 16.1 CONTRACTOR shall not alter any of WORK except as directed in writing by ENGINEER - IN- CHARGE. FACT shall have full powers during execution of CONTRACT to alter, amend, omit, add or otherwise vary WORK, from time to time by issue of written notice therefore to CONTRACTOR and CONTRACTOR shall carry out such variations and be bound by CONTRACT so far as applicable as though the said variation is stated in CONTRACT. In case, in the opinion of CONTRACTOR, the said variation will involve an increase or decrease in the Contract Price or any of the other obligations of CONTRACTOR hereunder, subject to provisions under Article -15, CONTRACTOR shall within seven (7) days of receipt of the said notice advise ENGINEER - IN - CHARGE of that effect and only on receipt of written acceptance of same from ENGINEER - IN - CHARGE, CONTRACTOR shall give effect to the requested variation.
- 16.2 The difference in Contract Price; if any, occasioned by such variations shall be added to or decreased from the Contract price and paid in the same manner as Contract Price.

ARTICLE-17 ACCESS TO SITE

- 17.1 FACT shall provide CONTRACTOR access to SITE and place within SITE where WORK is to be performed at all reasonable times, subject to Article - 24 and 26 hereof. Unless specified elsewhere to the Contrary, FACT shall also provide suitable road for transport of EQUIPMENT and Materials from the nearest public thoroughfare or FACT'S Store to the place of work. Any approach road, bridges over trenches, ladders or such other means of access required in the area of work shall be made by CONTRACTOR at no cost to FACT.
- 17.2 The access to SITE or place of work shall not be exclusive to CONTRACTOR but only such as to enable him to execute WORK. FACT reserves the right to grant access to SITE and place of WORK to other contractors engaged by FACT for carrying out work relating to PROJECT and CONTRACTOR shall fully co-operate with such other contractors and carry out WORK without causing any hardship to others. FACT'S representatives and / or representative of any third - party engaged by FACT for inspection and/ or any statutory authorities shall at all reasonable times have access to SITE and place of work.
- 17.3 Access to SITE granted herein shall not be construed as grant of any right of possession or Title to CONTRACTOR over SITE or part thereof.

ARTICLE-18 CONSTRUCTION POWER & WATER

- 18.1 FACT shall provide CONTRACTOR with supply of electric power at nominal supply voltage of 415 V in 3 phase 50 C/s, 4 wire system at one point at the outgoing terminals of OWNER'S / FACT'S switchgear in the manner and for the purposes specified in SCHEDULE-H.
- 18.2 CONTRACTOR shall make his own arrangements to lay cables along such routes and in such manner as ENGINEER - IN - CHARGE approves and to distribute the power to various consuming units and lighting system installed by CONTRACTOR, all in accordance with applicable statutory rules and regulations, CONTRACTOR shall apply for, pay any fees related thereto and

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obtain statutory approvals for such installations that CONTRACTOR sets up and engage, where necessary, licensed electricians for attending to operation and up-keep for the said installation.

- 18.3 OWNER / FACT shall provide CONTRACTOR with supply of water for use in WORK carried out at SITE at one point in a manner and for the purposes as specified in SCHEDULE - H. CONTRACTOR shall make his own arrangements for laying pipelines from the above point to place of WORK and for distribution therein along a route and in manner approved by ENGINEER - IN - CHARGE. CONTRACTOR shall ensure that the installations made by CONTRACTOR are leak proof and that proper valves are provided at all distribution points in order to avoid any wastage of water. For use in higher elevations necessary surface tank and pumping arrangements shall be provided by CONTRACTOR at his cost.
- 18.4 Supply of power and water by OWNER / FACT in the above - said manner is free of cost to CONTRACTOR. FACT shall endeavour to maintain supply of power and water uninterruptedly so that WORK can be proceeded with without interruption. However, in the event of any interruption in these supplies for short intervals of time due to any repair or maintenance of FACT'S supply system or due to extraneous reasons, CONTRACTOR shall fully co-operate by re-scheduling the day's WORK and shall not be entitled for any extension of Time -Schedule or compensation for idle wages.

ARTICLE-19 CONSTRUCTION EQUIPMENT

- 19.1 CONTRACTOR shall provide all tools, tackles, hoisting equipment, safety appliances, ladders, scaffolding, test equipment and such other facilities as are required for carrying out WORK and OWNER / FACT does not undertake to provide any such facility except as provided hereunder CONTRACTOR'S equipment shall be used solely for the purpose of WORK and shall not be removed from SITE by CONTRACTOR without written permission of OWNER. CONTRACTOR shall be responsible to maintain and safeguard CONTRACTOR'S equipment against damage or loss.
- 19.2 Construction equipment available with OWNER / FACT and the hire charges for each are described in SCHEDULE - J. These equipments will be operated by FACT'S crew and the hire changes include all running expenses. The hire changes will be reckoned for the period commencing with the time at which it is released for use by CONTRACTOR up to time when it is released by CONTRACTOR or time up to which CONTRACTOR has intended for his use whichever is later.
- 19.3 Construction equipments available with OWNER/FACT are limited and are intended for the common use of the PROJECT and FACT does not undertake .to place these at the disposal of CONTRACTOR without specific prior commitment. CONTRACTOR shall discuss with ENGINEER - IN - CHARGE the requirements and programme of use well in advance and the equipment will be made available only during such times as the ENGINEER - IN - CHARGE agrees to. That FACT'S construction equipment was not available in the time or for adequate duration shall not entitle CONTRACTOR for any increase in price or extension of Time - Schedule unless agreed to otherwise in SCHEDULE - F and in such cases CONTRACTOR shall have to make his own alternative arrangements.

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- 19.4 FACT'S construction equipment placed at the disposal of CONTRACTOR shall be used by CONTRACTOR only for the purposes they are intended for and within its prescribed limits of application and CONTRACTOR shall be liable to bear cost of repair / replacement in case of any damage due to misuse or wrong application.

ARTICLE-20 ACCOMMODATION AT SITE & COMMUNICATION FACILITIES

- 20.1 FACT does not undertake to provide any covered area or protected accommodation of any kind for use by CONTRACTOR for office, store, shop or residential accommodation.
- 20.2 FACT shall allot levelled ground at convenient place in SITE within reasonable distance of the place of WORK where CONTRACTOR may build temporary structures for site office, store and fabrication shop and CONTRACTOR shall make arrangements for fencing and security. CONTRACTOR shall also make suitable arrangements for sanitation and hygiene in the place allotted to CONTRACTOR.
- 20.3 CONTRACTOR shall make his own arrangements for residential accommodation of staff and workmen, facilities for food and canteen and shall not set up any hutments, barracks or other form of residential units at any place within SITE or on other land belonging to OWNER/FACT unless specifically agreed to.
- 20.4 CONTRACTOR shall make his own arrangements for any telephone / telex communication facilities he needs in carrying out WORK. In case of emergency, FACT may permit use of available facility for which charges if any shall be borne by CONTRACTOR.

ARTICLE-21 TESTS ON COMPLETION & TAKING OVER

- 21.1 CONTRACTOR shall give ENGINEER-IN-CHARGE fifteen (15) days notice in writing of the date on which he will be ready to carry out tests specified in SCHEDULE-A for the WORK or section of WORK if WORK is so divided in SCHEDULE-A. Unless otherwise agreed, these tests shall take place within ten (10) days after the date so notified by CONTRACTOR on such day / days as ENGINEER-IN-CHARGE notifies CONTRACTOR in writing. Tests shall be held as per procedure laid out in SCHEDULE-K hereof and within three (3) days of completion of tests CONTRACTOR shall submit to ENGINEER-IN-CHARGE three (3) copies of the report of the tests for his approval.
- 21.2 If in the opinion of ENGINEER-IN-CHARGE the tests on completion are being unduly delayed he may by notice in writing call upon the CONTRACTOR to make such tests within ten (10) days of receipt of such notice; and unless otherwise agreed, CONTRACTOR shall make the said tests on such day within the said 10 days as the ENGINEER-IN-CHARGE may fix and of which he shall give notice to ENGINEER-IN-CHARGE. If CONTRACTOR shall fail to make the tests within the time aforesaid, FACT shall be entitled to proceed with the tests and all tests as made shall be at the risk and expense of CONTRACTOR.

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- 21.3 ENGINEER-IN-CHARGE may require CONTRACTOR at any time before commencement of a test or during the performance of the test to postpone or suspend the test if in his opinion the arrangements made by CONTRACTOR for carrying out the tests are inadequate or unsatisfactory; and in such case CONTRACTOR shall re-schedule the tests and conduct it in such manner as ENGINEER-IN-CHARGE approves.
- 21.4 Should any part of WORK fail to achieve the performance specified or to pass the tests prescribed in any other manner, CONTRACTOR shall at his own expense effect such changes consistent with good engineering practice, as are necessary to enable the WORK to pass further tests and conduct a fresh test after duly notifying ENGINEER-IN-CHARGE. If during the further tests, the WORK or any part thereof fails to achieve the performance specified, the WORK shall not be considered acceptable and CONTRACTOR shall replace, re-do or otherwise rectify them entirely at his own cost until they become acceptable, all within the time schedule agreed to vide Article – 4, provided that in case the failure to pass tests is within permissible limits as Engineer-in-charge considers acceptable, FACT may at its own discretion accept the WORK upon appropriate deduction in Contract price as may be provided for elsewhere in CONTRACT or as mutually agreed to.
- 21.5 As soon as WORK has been completed in all respects in accordance with CONTRACT and has passed the prescribed tests, OWNER / FACT shall issue a certificate taking over the WORK (hereinafter referred to as Taking Over Certificate), stating the date on which WORK has been so completed and passed the tests, and the WORK shall be deemed taken over by FACT on the said date. In the event of WORK being divided by this CONTRACT into two or more sections or not being completed in all respects but only to such an extent that it can be put to use by FACT without hindering or being hindered by the execution of part remaining to be completed, FACT shall be entitled to take over any section or sections before the other or the others by issuing a Taking Over Certificate in respect thereof.
- 21.6 If by reason of any default on the part of CONTRACTOR a Taking Over Certificate has not been issued in respect of every portion of WORK or every portion of a section of WORK within Thirty (30) days of the date on which it should have been issued as per Time Schedule agreed in CONTRACT, FACT shall be at liberty, without prejudice to other rights herein of FACT to use the WORK of any portion thereof in respect of which a Taking Over Certificate has not been issued, provided that CONTRACTOR is afforded reasonable opportunity to take such steps as may be necessary to permit issue of Taking Over Certificate.
- 21.7 Issue of Taking Over Certificate or acceptance of WORK or part thereof in any other manner after passing prescribed tests or otherwise shall not relieve CONTRACTOR of his warranty obligations vide Article - 30 hereof.

ARTICLE-22 TEMPORARY STRUCTURES

- 22.1 Any temporary structure set up at SITE by CONTRACTOR shall be of sound construction taking into account safety of EQUIPMENT and workmen and CONTRACTOR shall be solely responsible

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for any damage or consequence thereof of the same. If in the opinion of ENGINEER-IN-CHARGE such constructions are not of appropriate design or construction and is likely to imperil safety of EQUIPMENT and/or workmen he may notify CONTRACTOR accordingly and Contractor shall forthwith forbid its use until it is replaced or suitably modified in an acceptable manner.

- 22.2 Any temporary construction made by CONTRACTOR in connection with WORK shall be dismantled and removed by CONTRACTOR and the entire area where WORK was performed cleared of any surplus or scrap materials, rubbish or debris within Thirty (30) days of issue of Taking Over Certificate or such earlier date as ENGINEER-IN-CHARGE may require.
- 22.3 If any temporary structure set up by CONTRACTOR at SITE including any power and water lines obstruct implementation of PROJECT in any manner at any stage of WORK, CONTRACTOR shall immediately on receipt of notice thereof from ENGINEER-IN-CHARGE dismantle and remove or shift the temporary structure or line, at his own cost, in such a manner that the obstruction is removed.

ARTICLE-23 INSURANCE AND LIABILITY FOR DAMAGE

- 23.1 CONTRACTOR shall during execution of WORK, properly cover up and protect any part of work liable to damage by exposure to weather and shall take every reasonable precaution against accident or damage to work from any cause.
- 23.2 All equipments and materials brought to SITE by CONTRACTOR for use in execution of WORK shall be at sole risk of CONTRACTOR. Only such materials as are actually used in WORK so as to form part thereof will be covered by the insurance cover arranged by OWNER/ FACT.
- 23.3 OWNER / FACT shall have covered by storage-cum-erection insurance policies EQUIPMENT, materials supplied by FACT, FACT'S construction equipment, WORK executed at SITE and FACT'S personnel. These policies apply only to insurance risks at SITE and no other location.
- 23.4 CONTRACTOR shall take care not to cause any damage to any equipment, materials and or construction of and or any work executed by any other Contractors or other third parties doing work at SITE and CONTRACTOR Indemnifies OWNER / FACT against any liabilities, whatsoever, consequent to damage caused by CONTRACTOR or CONTRACTOR'S workmen in the aforesaid manner.
- 23.5 CONTRACTOR indemnifies OWNER / FACT against any loss, damage or other liabilities in consequence of any negligent act or omission by CONTRACTOR or CONTRACTOR'S Workmen or theft or pilferage of any material and / or EQUIPMENT handed over to CONTRACTOR by FACT. CONTRACTOR shall take appropriate insurance as may be required to cover the above responsibilities.

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ARTICLE-24 WORKING HOURS

- 24.1 All days observed as Holidays by OWNER / FACT shall be Holidays and all other days shall be working days at SITE, CONTRACTOR shall be given, on request, the calendar of such Holidays for each year. CONTRACTOR shall carry out WORK normally on working days.
- 24.2 Working hours shall be 8 hours per day on all working days and timing will be as ENGINEER- IN-CHARGE may notify from time to time. Contractor's workmen will be permitted to enter SITE only thirty (30) minutes prior to commencement of working hours and shall leave SITE within thirty (30) minutes of close of working hours. However in special circumstances such as when ENGINEER-IN-CHARGE is satisfied that nature of WORK for the time being carried out is such that it shall have to be proceeded with uninterruptedly even beyond normal working hours or when CONTRACTOR is behind schedule and would not be able to complete WORK within normal working hours. FACT shall permit CONTRACTOR to and CONTRACTOR shall perform WORK beyond normal working hours and any overtime wages or other costs receivable by CONTRACTOR'S workmen shall be fully borne by CONTRACTOR. CONTRACTOR shall seek for permission for engaging in WORK beyond normal hours well in advance.

ARTICLE-25 SAFETY

- 25.1 CONTRACTOR shall execute WORK in a safe and secure manner always ensuring safety of personnel engaged in WORK, EQUIPMENT, Materials, Construction Equipment and the WORK itself in all its phases. Safety codes for Construction specified in SCHEDULE-P shall be strictly adhered to and any violation of these will be deemed wilful negligence on the part of CONTRACTOR.
- 25.2 In the event of any accident occurring at SITE in connection with WORK, CONTRACTOR shall submit a report of same to ENGINEER-IN-CHARGE immediately, and/in any case within 24 hours of its occurrence, and shall fully co-operate with OWNER in any enquiry held in connection with the same.

ARTICLE-26 FACT'S REGULATIONS & RULES.

- 26.1 CONTRACTOR shall observe and ensure that this supervisors and workmen observe all rules and regulations of OWNER / FACT applicable to SITE as may be communicated by FACT from time to time. CONTRACTOR shall ensure that his supervisors and workmen engaged at SITE function in a disciplined manner.
- 26.2 Entry to SITE of CONTRACTOR'S men shall at all times be subject to security regulations of OWNER / FACT and controlled by issue of passes. Passes will be issued against application by CONTRACTOR in appropriate form within seven days of receipt of such application. FACT may reject issue of pass or cancel a pass issued earlier to any person whose presence at SITE, in the opinion of FACT is detrimental to the interest of FACT.
- 26.3 In the event of any person or persons including CONTRACTOR'S REPRESENTATIVE engaged by CONTRACTOR for WORK violates any of the regulations of FACT or does not function

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in a disciplined manner or is not, in the assessment of FACT, competent to carry out the work for which he is engaged FACT, may cancel the entry passes issued to such person / persons without any notice and CONTRACTOR shall make arrangements for substitutes immediately.

ARTICLE-27 STATUTORY REGULATIONS

- 27.1 CONTRACTOR shall in all matters arising out of performance of CONTRACT confirm at his own expense with all Acts, Orders, Regulations, Rules and By-Laws of Government of India, State Governments, local bodies and other authorities there under for the time being in force and applicable to WORK.
- 27.2 Where any temporary installations, facilities or apparatus set up by CONTRACTOR for carrying out WORK is subject to statutory regulations. CONTRACTOR shall ensure that these conform to such regulations applicable and also apply for pay necessary fees and obtain any approval required there under, prior to putting the same into use.
- 27.3 Where WORK or any part thereof, other than those covered by Article - 27.2 above, is subject to statutory regulations / approval. FACT / OWNER shall apply for such approvals and pay the fees; but CONTRACTOR shall provide at his own expense all information and assistance necessary to make such applications and to satisfy the inspecting Authority representing the related statutory body that WORK carried out conforms to applicable regulation. Any WORK or part thereof rejected for non-compliance with statutory regulations shall be modified or replaced by CONTRACTOR at no cost to FACT within the agreed Time-Schedule so as to make it conform with applicable regulations. CONTRACTOR shall not be responsible for any such liability if it has occurred due to the sole reason that EQUIPMENT, designs or materials supplied by FACT do not conform to such applicable regulations.

ARTICLE-28 LAWS RELATING TO LABOUR

- 28.1 CONTRACTOR shall comply with all Acts, Rules, Orders, Regulations, By-laws of Government of India; State Government. Local Bodies or an Office, authority or unit, there under pertaining to employment or labour at SITE and procure any licence that is required for such employment.
- 28.2 CONTRACTOR shall be deemed Employer for these purposes and shall discharge all obligations of Employer. CONTRACTOR shall maintain such registers and records and display such information and notices as are required under these provisions and such registers shall at all time be available for inspection by FACT. Where the law require that any act of CONTRACTOR shall be carried out only in the presence of a representative of FACT and witnessed by FACT it shall be so carried and CONTRACTOR shall request ENGINEER - IN - CHARGE for the presence of FACT'S representative. Any information or reports required from CONTRACTOR by FACT, periodically or otherwise, for discharge of FACTS obligations under such laws shall be provided promptly.
- 28.3 Payment of workmen Compensation and implementation of labour laws with regard to workmen employed by CONTRACTOR are CONTRACTOR'S liability and in case OWNER/ FACT is

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compelled to incur any expense or any other amount on behalf of CONTRACTOR'S workmen, FACT is entitled to recover that amount from any bills payable to CONTRACTOR or in any other manner as is provided in Article - 44 hereof or otherwise.

- 28.4 The Contractor shall be solely responsible for compliance with all applicable statutory obligations under the Employees' State Insurance Act, 1948 (ESI), the Employees' Provident Funds and Miscellaneous Provisions Act, 1952 (PF), the Building and Other Construction Workers' Welfare Cess Act, 1996, and all other relevant Labour Laws, Acts, Rules and Regulations in force from time to time.

Tenderers shall submit valid registration certificates with the Labour Department / PF / ESIC, wherever applicable, along with the bid. In case the tenderer is not registered under the ESI and/or PF Acts at the time of bidding, the Contractor shall obtain and submit the original PF/ESI Registration Certificates before commencement of the work. Failure to produce the required registrations prior to commencement of the work shall result in disqualification, forfeiture of EMD, and may lead to debarring from participation in future tenders of FACT.

All workmen deployed by the Contractor for execution of the work shall be covered under the provisions of the PF and ESI Acts, as applicable. The Contractor shall be responsible for payment of wages and all statutory contributions, including both employer's and employee's contributions towards PF, ESI, welfare cess and any other statutory levies.

The Contractor shall deposit the PF and ESI contributions for each month, both employer's and employee's shares, within the statutory due dates under the permanent PF/ESI code numbers and shall obtain valid challans for the same.

Documentary evidence of monthly PF and ESI remittances, including challans and prescribed statutory returns, shall be submitted by the Contractor along with the subsequent month's Running Account (RA) Bills and shall also be produced to OWNER/FACT whenever called for, and in any case, at least once every quarter.

- 28.5 Non-compliance with the provisions of this clause or the applicable statutory requirements shall be treated as a material breach of contract and may attract actions such as withholding of payments, disqualification, termination of contract, forfeiture of EMD/Security Deposit, and/or debarring from participation in future tenders of FACT, as per the applicable provisions of the tender and contract.
- 28.6 CONTRACTOR indemnifies OWNER / FACT against any claims from any person or persons engaged by CONTRACTOR in connection with WORK and in the event OWNER/ FACT becomes directly liable for any payment consequent to breach or non-observance by CONTRACTOR of the provisions hereof, such amounts shall be payable by CONTRACTOR to FACT, AND FACT may recover such dues from any amount receivable by CONTRACTOR under CONTRACT without prejudice to any other mode of recovery.

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- 28.7 In the event of any dispute between CONTRACTOR and persons engaged by CONTRACTOR at SITE, CONTRACTOR shall amicably resolve such disputes in such a way that WORK can be proceeded with uninterruptedly. In the event such disputes cannot be resolved in the above - said manner, CONTRACTOR shall immediately notify ENGINEER-IN-CHARGE of the existence of such a dispute and the nature thereof; but CONTRACTOR shall himself be responsible to take such measures as are necessary and permissible to have the situation resolved.
- 28.8 CONTRACTOR may have access to OWNER'S / FACTS qualified first-aid personnel and ambulance in case of accidents where such facility is available. CONTRACTOR shall however provide a first-aid post for attending to minor injuries.

ARTICLE - 29 APPRENTICES ACT

- 29.1 CONTRACTOR shall comply with provisions of the Apprentices Act, 1961 and any amendments thereto as well as any Rules made or orders issued there under from time to time.
- 29.2 CONTRACTOR shall submit to FACT periodically statement giving the number of workmen engaged by CONTRACTOR in each category and the number of apprentices engaged in the corresponding category.

ARTICLE – 30 WARRANTIES AND MAINTENANCE PERIOD

- 30.1 CONTRACTOR warrants that WORK will be carried out in full conformity with approved drawings, Approved design and FACT specifications, in compliance with applicable statutory regulations for the time being in force, in accordance with recognized standards and codes of practice, as per good engineering practice and in a professional and workman-like manner.
- 30.2 In the event of any defect being noticed in the quality or workmanship of WORK or any part thereof or any material provided and used by CONTRACTOR in WORK, within a period of eighteen (18) months from the day it is taken over as per Article 21 or twelve (12) months from the day it is put into service by OWNER whichever expires earlier, or during the execution of WORK, OWNER shall issue notice to CONTRACTOR slating the nature of defect so noticed and CONTRACTOR shall, at his own cost, make good the affected WORK promptly. if CONTRACTOR fails to do so within reasonable period, or if in the opinion of OWNER, CONTRACTOR is unable to do so, or the repair! replacement cannot wait till CONTRACTOR is able to do it OWNER may either directly or through such other agencies as OWNER may deem fit, get defective part of WORK made good, all at the risk and cost of CONTRACTOR. Notwithstanding the period specified above, in case of civil constructions, the period of warranty will extend at least up to the end of first monsoon after the WORK is taken over vide Article - 21.
- 30.3 An item of WORK so repaired or replaced shall carry a further warranty as per Article-30.2 above.

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- 30.2 During the period of warranty, CONTRACTOR'S representative shall be available at SITE or at such place from where he can come to SITE immediately on request by FACT and he shall be authorized by CONTRACTOR to carry out any repairs or maintenance as CONTRACTOR is obliged to carry out under the above warranty.
- 30.3 CONTRACTOR shall not be liable for any defect owing to defective design, specifications, drawings or information provided by FACT in writing based on which WORK has been executed or to defective EQUIPMENT or material provided by FACT or to improper use of WORK by FACT / OWNER. Normal wear and tear shall not be treated as defect in WORK.
- 30.4 On expiry of the said warranty period or on completion of CONTRACTOR'S obligations under the warranty, whichever is later, FACT shall issue to CONTRACTOR a Discharge Certificate, stating that CONTRACTOR is discharged of these warranties and release any amounts retained or other form of security held by FACT in lieu of security by CONTRACTOR for said warranties.

ARTICLE-31 GUARANTEE FOR TIME SCHEDULE

- 31.1 CONTRACTOR guarantees that WORK will be executed as per time schedule agreed to herein vide Article-4.
- 31.2 In the event of any delay in completion of WORK or part thereof as per agreed schedule, due to reasons other than those specifically exempted vide Articles- 15.7, 32.2 and 40.3 hereof, OWNER/CONSULTANT may deduct from the considerations due to CONTRACTOR under CONTRACT or otherwise recover from CONTRACTOR in lieu of liquidated damages, a sum calculated at half of one percent (0.5%) of the Contract Price due to CONTRACTOR for the portion of WORK agreed to be carried out by CONTRACTOR till the date on which the delayed item is due to be completed, **for each week of delay, subject to a maximum of seven and a half (7.50%) percent of total Contract Price.** Any payments recovered from CONTRACTOR by way of Liquidated damages for delays in earlier stages of WORK shall be reduced from the sums due under this Article-31.2. It is understood and agreed that such amounts due represent the losses suffered by FACT because of delay in WORK by CONTRACTOR and it shall not be necessary for FACT to establish the actual amount of losses suffered, irrespective of whether the WORK or part thereof could be put to any use by FACT had it been completed by CONTRACTOR as per schedule.
- 31.3 For the purposes of Article-31.2 completion of WORK or part thereof shall mean taking over by FACT of WORK or part thereof (as is applicable) after satisfactory completion of tests vide Article-21 hereof.

ARTICLE-32 DELAY BY FACT

- 32.1 In case of any delay in supply by OWNER / FACT of Designs and Drawings, EQUIPMENT, materials, Construction Equipment, Power and water for construction and / or any other item to be supplied

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by FACT as per CONTRACT, or in the interruption of supply thereof, CONTRACTOR shall be informed in advance of such delay, wherever possible, and CONTRACTOR shall re-schedule WORK in such a manner that no infructuous expenditure is incurred.

- 32.2 In case delay by FACT is of a substantial nature and has affected WORK or part thereof in such a manner that it cannot be proceeded with as per agreed schedule, the time- schedule for the part so affected shall be extended correspondingly. Decision of ENGINEER-IN-CHARGE shall be final in respect of any extension of time.
- 32.3 In any case CONTRACTOR shall not be entitled for any financial compensation or increase in Contract Price in consequence of such delay or interruption.

ARTICLE-33 SPECIAL CONDITIONS & SPECIAL REQUIREMENTS OF THE CONTRACT

- 33.1 The **Special Conditions of Contract & Special Requirements of the Contract** specified vide SCHEDULE-Q and SCHEDULE-Q1 hereof shall form part of CONTRACT; and wherever the provisions under **Special Conditions of Contract & Special Requirements of the Contract** are in conflict with any of the provisions vide Article-2 to Article-48 hereof, **provisions in the Special Conditions of Contract & Special Requirements of the Contract shall prevail.**
- 33.2 Definitions vide Article-1 hereof shall apply to special Conditions of contract & Special Requirements of the Contract also and any supplementary Definitions given therein need not necessarily apply to other sections of CONTRACT.

ARTICLE-34 SUB-LETTING AND ASSIGNMENT

- 34.1 CONTRACT shall be binding and inure to the benefit of the parties hereto and to their successors in right and shall not be assignable by either unless the other party has given its consent in writing to such assignment.
- 34.2 CONTRACTOR shall not sub-let or sub-contract any or all of its obligations under CONTRACT to any other party without prior written consent of FACT. In the event of CONTRACTOR sub-letting the WORK or part thereof to any other party or engaging any sub-contractor, CONTRACTOR shall still be responsible to FACT for performance of the whole CONTRACT and shall ensure that such other party to whom WORK or part thereof is sub-let or sub-contracted perform the portion of WORK so sub-let or sub-contracted as per provisions herein and the persons employed at SITE by such other party shall be deemed employed by CONTRACTOR.

ARTICLE-35 CLAIMS

Claims by CONTRACTOR for any disputed items shall be lodged with ENGINEER-IN-CHARGE within thirty (30) days of disallowance of the same failing, which the claim shall be deemed to have been waived.

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ARTICLE-36 PATENTS

- 36.1 FACT warrant on their part that any design or instruction given by FACT shall not be such as will cause CONTRACTOR to infringe any Letters of Patent, Registered Designs, Trade Marks, Copy-right or other protected right valid in India, in the performance of WORK.
- 36.2 Subject to Article-36.1 CONTRACTOR indemnifies OWNER / FACT against any claim for infringement by CONTRACTOR of any Letters of Patent, Registered Design, Registered trade mark of Copy-right or other protected right valid in India in performance of CONTRACT. In the event of any action being brought against or claims or demands being made on OWNER/ FACT because of any infringement or alleged infringement by CONTRACTOR of any of the said rights, CONTRACTOR shall immediately be notified of the same and CONTRACTOR shall within a reasonable period of time and at its own cost, make such modifications in WORK as would make it non-infringing upon any such rights or any such claims or demands or otherwise procure for FACT such rights as would enable FACT to continue with the use of WORK without infringement of such rights. FACT shall not settle such action or satisfy or compromise any such claims without the written consent of CONTRACTOR and in the event of any such infringement or alleged infringement leading to litigation CONTRACTOR shall conduct the same and FACT shall co-operate with CONTRACTOR in all reasonable manner.

ARTICLE-37 SECRECY

- 37.1 All drawings, designs, specifications, and other documents and information issued by FACT and any instruction given by FACT in the performance of CONTRACT, whether patented or patentable or not, shall always remain the exclusive property of FACT and CONTRACTOR at no time shall question or dispute such right of FACT. For a period of fifteen (15) years from the DATE OF CONTRACT, CONTRACTOR shall keep the above documents and information and the knowledge that FACT'S employees information contained in said documents for PROJECT as secret and confidential and shall not reproduce them or divulge them to any third-party without the specific written approval of FACT and shall not use them for any purpose other than those covered by the intents of CONTRACT. Such documents are given on loan by FACT to CONTRACTOR for the limited purpose of execution of WORK and are subject to return on demand.
- 37.2 CONTRACTOR shall not publish or cause to be published any information on PROJECT, CONTRACT, WORK covered by CONTRACT or CONTRACTOR'S participation in it without the prior written consent of FACT.
- 37.3 The provisions of this article shall survive expiry or earlier termination / suspension of CONTRACT.

ARTICLE-38 NON-WAIVER

Any failure by either party at any time, or from time to time to enforce or require strict observance performance of any of the terms and conditions of CONTRACT, or to exercise any rights hereunder, shall not constitute a waiver of such terms and conditions or rights, unless such rights have

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lapsed under specific provisions elsewhere in CONTRACT, and shall not affect or impair same or the right of either party any time to avail the same.

ARTICLE-39 LANGUAGE & UNITS

CONTRACT is drawn up in the English Language. All correspondence between the parties in performance of CONTRACT shall be in the English Language. Metric system of measurement shall be followed.

ARTICLE-40 FORCE MAJEURE

40.1 Neither CONTRACTOR nor FACT shall be considered in default in performance of CONTRACT if such performance is prevented or delayed due to circumstances of force Majeure provided that the party so affected notifies the other in writing promptly, in any case within fifteen (15) days of its occurrence, of the existence of a situation of Force Majeure giving evidence there for. For the purposes of this Article Force Majeure means:

- i) War or hostilities
- ii) Riot or civil commotion
- iii) Earthquake, flood, tempest, lightning or other natural calamities
- iv) Accident, fire or explosion on SITE not caused by wilful negligence of CONTRACTOR, and / or
- v) Labour strike or lockout exceeding ten (10) days in duration not caused by any deliberate act of indiscretion by CONTRACTOR.

40.2 If the situation of Force Majeure extends for a period exceeding thirty (30) days the parties shall meet together and discuss the further course of action, provided that if CONTRACTOR'S performance is affected FACT may at his option and at any time remove from the scope of CONTRACTOR the portion of WORK so affected and have it executed by any other agency as FACT may deem fit and reduce from the consideration payable to CONTRACTOR a proportionate amount.

40.3 CONTRACTOR shall be entitled for extension of time-schedule vide Article - 4 for the performance of the portion of WORK affected by the situation of Force Majeure by a reasonable period but shall not be entitled to any financial compensation such as idle wages or escalation in cost. Decision by ENGINEER-IN-CHARGE shall be final in respect of any extension of time.

ARTICLE-41 SETTLEMENT OF DISPUTES AND ARBITRATION

(I) If the 'contractor' is a Central Public Sector Enterprise or Central Government Department:

In the event of any dispute or difference relating to the interpretation and application of the provisions of this contract(s) between Central Public Enterprises (CPSEs)/Port Trusts inter-se and also between CPSEs and government departments / Organizations (excluding disputes concerning taxation), such dispute/ difference shall be taken up by either Party for resolution

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through AMRCD as mentioned in DPE OM No. 4(1)2013-DPE(GM)/FTS-1835 dated 22.05.2018.”

Or

(II) For contracts other than (i) above:

If any dispute arises out of or relating to or in connection with this CONTRACT, between the CONTRACTOR and the OWNER/FACT, the same shall be amicably settled through mutual discussions, failing which, the unresolved dispute(s) shall be referred to arbitration in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time and number of Arbitrator shall be one. The venue of the Arbitration shall be at Ernakulam and the proceedings shall be in ENGLISH.

Any legal proceedings relating to this contract shall be limited to courts of law under the jurisdiction of the Kerala High Court at Ernakulam.

ARTICLE-42 LAW AND LEGAL JURISDICTION

42.1 CONTRACT shall be governed and construed by Laws of India.

42.2 Any legal proceedings relating to CONTRACT shall be limited to courts of law under the jurisdiction of the Kerala High Court at Ernakulam.

ARTICLE-43 SUSPENSION AND TERMINATION

43.1 In the event FACT is unable or unwilling to complete or is compelled to postpone its activities relating to PROJECT at any stage during the currency of CONTRACT, FACT may either suspend or terminate CONTRACT by giving CONTRACTOR thirty (30) days notice.

43.2 If CONTRACTOR shall fail or neglect to execute work with all due diligence and expedition or shall refuse or neglect to comply with any reasonable orders given to him in writing by FACT in connection with work or shall otherwise commit breach of any of the provisions of CONTRACT, FACT may give CONTRACTOR notice in writing requiring to make good such failure, neglect or breach. Should CONTRACTOR fail to comply with the notice within the time specified therein, then FACT shall, without prejudice to other rights of FACT under CONTRACT, be at liberty to have such WORK or portion of WORK as CONTRACTOR has failed or neglected to execute, executed directly or through any other agency FACT deems fit at the risk and cost of CONTRACTOR; and FACT shall have the free use of all of CONTRACTOR'S equipment, materials and other things for the time being available at SITE for getting the WORK completed in the above- said manner to the exclusion of any right of CONTRACTOR for fair wear and tear thereof.

FACT shall further be entitled to apply the proceeds of such equipment and unused materials of CONTRACTOR and any balance amount that may be due to CONTRACTOR for WORK actually executed towards any claims on FACT from third parties in consequence of failure, neglect, refusal or contravention by CONTRACTOR and / or towards any expense that FACT might have incurred in getting the WORK completed in the above -said manner, in excess of what FACT would have had to pay CONTRACTOR as per CONTRACT.

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- 43.3 If CONTRACTOR shall become bankrupt or insolvent or have a receiving order made against him or shall compound with his creditors or shall commence to be wound up otherwise than for the purpose of reconstruction or shall carry on its business under a Receiver for the benefit of its creditors, FACT may at its sole discretion either;
- a) Terminate CONTRACT forthwith by notice in writing to CONTRACTOR or the Receiver or the Liquidator or to any other person in whom the CONTRACT may become rested and have the remaining WORK executed at the risk and cost of CONTRACTOR in the same manner as specified in Article-43.2 above, or
 - b) Give such Receiver, Liquidator or other person as aforesaid the option of carrying out the CONTRACT subject to his providing security for the due and faithful performance of CONTRACT up to such amount as may be mutually agreed upon.
- 43.4 In the event of suspension of CONTRACT vide Article-43.1 above, immediately on receipt of notice therefore from FACT, CONTRACTOR shall suspend all activities at SITE except those essentially to be carried out to safe-guard and secure WORK for the time being in progress in a safe manner without wastage of materials and temporarily disband or reassign CONTRACTOR'S workmen except those essentially required at SITE such as for security of CONTRACTOR'S equipments and materials. CONTRACTOR shall re-mobilise its workmen and re-commence WORK within fifteen (15) days of receipt of notice from FACT requiring CONTRACTOR to do so. All costs reasonably incurred by CONTRACTOR in connection with temporarily winding up WORK, maintenance of SITE during period of suspension and remobilisation on withdrawal of suspension order shall be paid by FACT in addition to Contract Price specified herein, and the amount of such additional sum shall be mutually agreed to between the parties base on detailed information provided by CONTRACTOR. CONTRACTOR shall further be entitled for extension of time- schedule corresponding to the period of suspension including permitted period for re-mobilisation.
- 43.5 In the event of termination of CONTRACT vide Article-43.1 above, immediately on receipt of notice therefore from FACT, CONTRACTOR shall take all steps for winding up work such as cancellation of any pending orders and termination of any sub-contracts that CONTRACTOR might have entered into with others in connection with WORK, safe-guarding and securing of any WORK in progress in a safe manner, disbanding of workmen, removal of temporary construction made by CONTRACTOR at SITE and return of all EQUIPMENT, special tools, un-used materials and documents that FACT has supplied to CONTRACTOR. FACT shall pay CONTRACTOR for the portion of WORK executed till such termination less amounts already paid, together with any reasonable cost necessarily incurred by CONTRACTOR pursuant to such termination as may be mutually agreed upon between the parties hereto based on detailed information provided by CONTRACTOR. CONTRACTOR shall not be entitled for any payment in respect of the portion of WORK left unexecuted.

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- 43.6 Upon termination of CONTRACT for any reason, obligations of the parties hereto shall cease except for the liabilities of either party to the other in respect of obligations that accrued prior to, the date of such termination.

ARTICLE-44 RECOVERY OF DUES FROM CONTRACTOR

- 44.1 FACT shall have recourse to CONTRACTOR for any costs, claims, demands, proceedings, damages and expenses whatsoever arising out of or in connection with any failure of CONTRACTOR to perform any of his obligations under the terms of CONTRACT.
- 44.2 Any amount due from CONTRACTOR as per CONTRACT shall be deducted from money due or becoming due to CONTRACTOR under CONTRACT or under any other account or may be recovered by arbitration vide Article-41 or by action at law.

ARTICLE-45 CONSEQUENTIAL LOSSES

- 45.1 Liabilities of either party to the other are limited to those specifically provided for herein.
- 45.2 Neither FACT nor CONTRACTOR shall under any circumstances be liable in respect of any in direct or consequential loss or loss of business or loss of profit suffered by the other party in connection with or arising out of CONTRACT except as specified in Article-31 hereof.

ARTICLE-46 EFFECTIVE DATE AND VALIDITY

- 46.1 CONTRACT shall become effective on signature by either party after the other.
- 46.2 Unless terminated by FACT, CONTRACT shall remain valid till obligations of both parties are fulfilled.

ARTICLE-47 NOTICES & ADDRESSES

- 47.1 All notices under CONTRACT shall be in writing.
- 47.2 Except as otherwise specified in CONTRACT, it shall be sufficient in all respects if notices are either delivered at or sent by registered post at following addresses;
- a) To FACT:
 - b) To CONTRACTOR:
- 47.3 Any e –mail messages sent should be confirmed in the return mail.

ARTICLE –48 FRAUD PREVENTION POLICY

FRAUD PREVENTION POLICY: - Bidders shall comply with Fraud Prevention Policy of FACT 2012 (FPPF 2012). The said Policy is available in FACT Website www.fact.co.in

ARTICLE-49 ENTIRE AGREEMENT

- 49.1
- CONTRACT to the exclusion of all prior arrangements, statements or representation, whether oral or written constitutes the full agreement between the parties hereto relating of WORK.
- 49.2.1
- No variations to the terms of CONTRACT shall be valid unless it is made in writing and signed on behalf of both FACT and CONTRACTOR by their respective authorized representatives.

IN WITNESS WHEREOF the parties hereto have executed this agreement by their duly authorized representatives on the day and year first above written.

PROFORMA CONTRACT
AGREEMENT

(Agreement shall be made on Rs. 200/- Non –Judicial Stamp Paper)

W.O. No dtd.

BETWEEN

THE FERTILISERS AND CHEMICALS, TRAVANCORE LIMITED, UDYOGAMANDAL

AND

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

For

.....
.....

THIS CONTRACT made and entered into this the day of by and between THE FERTILISERS AND CHEMICALS, TRAVANCORE LIMITED, a Company registered in India with Registered Office at Eloor, Udyogamandal P.O., Kerala State, hereinafter referred to as ‘OWNER’ which expression shall unless repugnant to the context and meaning thereof include its legal successors and permitted assigns of the one part, and
.....
.....

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hereinafter referred to as 'CONTRACTOR' which expression shall unless repugnant to the context and meaning thereof include its legal successors and permitted assigns, of the other part.

WHEREAS contractor submitted in response to invitation by Owner, tender for providing materials, labours, construction equipment and other related services and supervision thereof for the work first above mentioned in the title of this document and WHEREAS OWNER conveyed to CONTRACTOR vide Work Order No..... dt..... OWNER's intention to entrust the WORK to CONTRACTOR under certain terms and conditions and CONTRACTOR accepted the same for a total amount of Rs-(Rs Only).

NOW THEREFORE, in consideration of the promises and mutual covenants contained herein, it is hereby agreed between the parties hereto as follows:

WHEREAS the contractor has agreed, subject to the conditions and specifications contained in the documents under **Work Order No..... dt.....** (hereinafter referred to as the said conditions) to execute the works shown upon descriptions in the said specifications and set forth in the schedule of items of works as the probable quantities and comply with the rate of progress as indicated in the statement **Work Order No. dt.....** for a sum of Rs..... (Rs.....Only) or such other sum high or low as may be arrived at by final measurement at unit prices.

Now these presents witness and it is hereby mutually agreed as follows:

1. In consideration of the payment of the said sum of Rs (Rs Only).or such other sum high or low as may be arrived at by final measurement at unit prices, the contractor will upon and subject to the said conditions execute and complete the works as shown upon the said conditions and descriptions in the specifications and to the extent of the probable quantities shown in schedule of items of works with such variations by way of alterations or additions to, or deductions from the said works and method of payment therefore in the said conditions.
2. Time shall be considered as the essence of this agreement and the contractor hereby agreed to commence the work as specified in the said conditions and agrees to complete the work within **Months** from the date of Work to proceed notice.

It is hereby mutually agreed that the **Work Order No.....dt.....** the General and Special terms and conditions and the schedule, the scope of work and annexures thereto shall be read and construed as forming part of this agreement and the parties hereto will respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their parts respectively.

i. If the 'contractor' is a Central Public Sector Enterprise or Central Government Department:

In the event of any dispute or difference relating to the interpretation and application of the provisions of this contract(s) between Central Public Enterprises (CPSEs)/Port Trusts inter-se and also between CPSEs and government departments / Organizations (excluding disputes concerning taxation), such dispute/ difference

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shall be taken up by either Party for resolution through AMRCD as mentioned in DPE OM No. 4(1)2013-DPE(GM)/FTS-1835 dated 22.05.2018.”

Or

ii. For contracts other than (i) above:

If any dispute arises out of or relating to or in connection with this CONTRACT, between the CONTRACTOR and the OWNER/FACT, the same shall be amicably settled through mutual discussions, failing which, the unresolved dispute(s) shall be referred to arbitration in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time and number of Arbitrator shall be one. The venue of the Arbitration shall be at Ernakulam and the proceedings shall be in ENGLISH.

Any legal proceedings relating to this contract shall be limited to courts of law under the jurisdiction of the Kerala High Court at Ernakulam.

Upon the terms and conditions of this agreement being fulfilled and performed to the satisfaction of the officers of the OWNER/empowered by the owner in this behalf.

IN WITNESS WHEREOF the parties thereto have executed this agreement by their duly authorised representatives on the day and year first above written.

Signed by the Contractor :

In the presence of the witnesses:

1)

2)

Senior Manager - (Materials) Contracts.

THE FERTILISERS AND CHEMICALS, TRAVANCORE LIMITED, UDYOGAMANDAL

In the presence of witnesses:

1)

2)

 FACT	FACT CORPORATE MATERIALS -CONTRACTS	Tender no. 03012/2026-2027/E34041
<u>SCOPE OF WORK</u>		SCHEDULE - A
		PAGE 1 OF 1

Name of Work:- Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

The work includes all the activities required for the re-tubing of the exchanger with new set of tubes at site and hydro testing the exchanger.

Kindly refer SCH Q1 for details.

	FACT CORPORATE MATERIALS CONTRACTS	Tender no. 03012/2026-2027/E34041
<u>PROGRAMME OF WORK</u>		SCHEDULE - B PAGE 1 OF 1

Name of Work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

- I. The work shall be completed in all respects within a period of 15 days from the date of issue of clearance to start the work as mentioned in Work – to –Proceed Notice issued by the Engineer–in–Charge and this shall be reckoned as the ZERO DATE of the Contract.
- II. The priorities of execution shall be as fixed by the Engineer–in–Charge at the time of execution.

	FACT CORPORATE MATERIALS -CONTRACTS	Tender no. 03012/2026- 2027/E34041
TECHNICAL DOCUMENT		SCHEDULE - C PAGE 1 OF 1

Name of Work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

The Technical Specification applicable for this work are as follows,

- Schedule of items of work
- SCH Q1
- Drawing

	FACT CORPORATE MATERIALS - CONTRACTS	Tender no. 03012/2026- 2027/E34041
<u>SITE CONDITIONS</u>		SCHEDULE - D PAGE 1 OF 1

Name of Work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

The site is at located at Ammonia Plant, FACT Udyogamandal, Kochi.

The intending bidders shall visit the site and familiarize themselves thoroughly with the state/local rules, regulations, living / working conditions, and site conditions. Non-familiarity or ignorance of these conditions will not be considered a reason for extra claims or for not carrying out the work as per the drawings, standards & specifications.

Any further information on site familiarization/ nature of work, if required by the bidders, can be had from **Mechanical Maintenance Dept., FACT CD.**

	FACT CORPORATE MATERIALS -CONTRACTS	Tender no. 03012/2026- 2027/E34041
<u>SUPPLIES BY OWNER</u>		SCHEDULE - E PAGE 1 OF 1

Name of Work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

Kindly refer SCH Q1 for more details.

	FACT CORPORATE MATERIALS - CONTRACTS	Tender No. 03012/2026-2027/E34041
<u>SCHEDULE OF PRICES</u>		SCHEDULE – F
		PAGE 1 OF 1
<u>Name of Work:</u> Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex. The tenderer shall note the following sheets which will form the Schedule of Price of the contract. - Form F1 - Unpriced bid - Form F2 - Schedule of rates for Extra items of Work		

	FACT CORPORATE MATERIALS - CONTRACTS	Tender No. 03012/2026-2027/E34041
<u>SCHEDULE OF RATES FOR EXTRA ITEMS OF WORK</u>		SCHEDULE – F2
		PAGE 1 OF 1
<u>Name of Work:</u> Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex. The following procedure shall be followed for arriving at unit rates for Extra Items of work: a) Derive from rates for similar items of work already available in the Schedule of Items of Work. b) If rates as per (a) above are not available, rates shall be worked out from data on the basis of which the estimate for the work was prepared, to which the overall Tender Variation shall be applied. c) If rates cannot be worked out on the basis of (a) and (b) above, then rates shall be derived on the basis of actual cost of materials used, labour engaged, hire charges of machinery used and all that is necessary for the work, plus a margin of 10 % towards Contractor's profit and overheads.		

 FACT	FACT CORPORATE MATERIALS -CONTRACTS	Tender No. 03012/2026-2027/E34041
<u>PAYMENT SCHEDULE</u>		SCHEDULE – G
		Page 1 of 1

Name of Work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

100% Payment shall be made on completion of work, for the actual quantity of work done and against the bill duly certified by the Engineer-in-Charge.

- I. Final Contract Price based on WORK actually performed, will be paid after completion of whole WORK in all respects, issue of taking over certificate by OWNER, settlement of account of all departmental issues and reconciliation of its use / return, clearance of SITE and removal of temporary structures and debris and settlement of all pending claims on account of labour employed by CONTRACTOR AT SITE, after adjustment for the following.
 - a) Deduction of all previous payments made.
 - b) Recovery of hire charges for OWNER'S construction equipment made available to the work. (If used)
 - c) Recovery of value of departmental supplies including penal recovery, if any.
 - d) Recovery of liquidated damages if any due.
 - e) Income tax at prevailing rate
 - f) Any other amount due from CONTRACTOR to OWNER
 - g) "TDS under GST Act."
- II. The billing of the entire price of Materials and price of Services shall be done from and to a single point only.
- III. All payments to the contractor, till FINAL ACCEPTANCE of the PLANT, as per the terms of the contract, for smooth execution of the project (i.e. RA bill, Advance etc.) shall be regarded as payments by way of advance only and not as payment for work actually done and completed.
- IV. Payment towards GST portion shall only be released after uploading of invoice details by the contractor and the same is reflected in GSTR2B.

Note: Deviations in the above mentioned payment terms shall not be permitted.

	FACT CORPORATE MATERIALS -CONTRACTS	Tender No. 03012/2026-2027/E34041
<u>SITE FACILITIES</u>		SCHEDULE – H
		PAGE 1 OF 1
<u>Name of Work:</u> Rubber lining of Strong Phosphoric Acid Storage Tank C at Phosphoric Acid Plant, FACT -CD, Ambalamedu, Kochi. The work is to be carried out at FACT Cochin Division.		

	FACT CORPORATE MATERIALS -CONTRACTS	Tender no. 03012/2026-2027/E34041
CONSTRUCTION EQUIPMENTS		SCHEDULE - J PAGE 1 OF 1

Name of Work: Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

Kindly refer SCH Q1 for more details.

	FACT CORPORATE MATERIALS - CONTRACTS	Tender: 03012/2026-2027/E34041
<u>FORM OF BANK GUARANTEES FOR SECURITY DEPOSIT/ PERFORMANCE BOND</u>		SCHEDULE – L Page 1 of 3

Name of Work:- Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

PROFORMA BANK GUARANTEE FOR SECURITY DEPOSIT / PERFORMANCE BOND

(TO BE OBTAINED FROM A INDIAN NATIONALISED/SCHEDULED BANK ON STAMP PAPER WORTH **Rs.500/-**)

The Fertilisers and Chemicals Travancore Ltd.,
Udyogamandal, Cochin-683 501.

Whereas FACT, Udyogamandal P.O., Kerala (hereinafter called referred to as the Company) has placed a work order no. Dated with M/S..... (hereinafter called the Contractor) for the work ofand whereas it is one of the conditions of the said work order that the Contractor shall either remit a sum of Rs..... (Rupees.....only) or furnish a Bank Guarantee for Rs..... (Rupees.....only) as security deposit for the due fulfilment of the said work order by the said Contractor.

In consideration of the Company having agreed to accept a Bank Guarantee from us towards such security deposit in lieu of the cash deposit in accordance with the terms and conditions of the above work order, we..... the Bank (hereinafter referred to as the Bank) do hereby undertake to pay the Company merely on demand any sum or sums from time to time demanded by the Company up to a maximum of Rs..... (Rupees.....only) being the amount of the security deposit against any loss or damage caused to or suffered by or would be caused to or suffered by the Company by reason of any breach by the said Contractor of any of the terms and conditions contained in the said work order.

We the said Bank, do hereby unconditionally and irrevocably undertake to pay the amount, upon first written demand from the Company, without any demur or protest. We, the bank further confirms that the Company is not required to state the reasons or show grounds for such demand. Any such demand made by the Company shall be binding and conclusive as regards the amount due and payable by the Bank under this Guarantee.

We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the said Contractor in any suit or proceeding pending

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before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the said Contractor shall have no claim against us for making such payment.

We..... further agree that the guarantee herein contained shall remain in full force and effect during the period that would be take for the performance of the said contract and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said contract have been fully paid and its claim satisfied or discharged or till the Company certifies that the terms and conditions of the said contract have been fully and properly carried out by the said contractor and accordingly discharges this guarantee.

We..... further agree with the said company that they shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said Contractor or to postpone for any time and from time to time any of the powers exercisable by it against the said Contractor and either to enforce or forebear from enforcing any of the terms and conditions governing the said contract or securities available to the Company and the said Bank shall not be released from its liability under these presents by any exercise by the Company of the liberty with reference to the matters aforesaid or by reason of time being given to the said Contractor or any other forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Contractor or any other matter of thing whatsoever which under the law relating to sureties, but for this provision, have the effect of so relieving us.

This guarantee shall not be affected by any change in the constitution of the Bank or the Company or the said Contractor nor shall this guarantee be affected by any change in the constitution of the Company or the said Contractor by absorption with any other body or corporation and this guarantee shall be available to or enforceable by such body or corporation.

Our guarantee shall remain in force until..... Unless a claim or demand is made within six months after the expiry of the above date, all the Company's rights under the guarantee shall be deemed as waived/forfeited and we shall be relieved and discharged from all liabilities there under. Notwithstanding anything contained hereinbefore, our liability under this guarantee shall be limited to an amount not exceeding Rs..... (Rupees..... only).

Any notice by way of request, demand or otherwise hereunder may be sent by post or submit to the Bank addressed as aforesaid **or any local branch of the bank in Ernakulam District, Kerala State** and if sent by post, it shall be deemed to have been given at the time when it would be delivered in due course of post and in proving such

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notice when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and certificate signed by an officer of the Company that the envelope was so posted shall be conclusive.

Disputes, differences if any relating to or arising out of guarantee shall be settled by courts having jurisdiction over Udyogamandal in Kerala State where the registered office of the Company is situated and no other court shall have jurisdiction in this matter.

We.....Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.

Any notice by way of request, demand or otherwise hereunder may be sent by post or submitted to the bank addressed as aforesaid or any local branch of the bank in Ernakulam District, Kerala State.

Dated this..... day of..... Two thousand and

For (Name of Bank) :

Authorised Official :

Name :

Designation :

Place:

(Full address of the Bank Branch issuing this guarantee)



SAFETY REGULATIONS

For

CONTRACT WORKS

FACT/UC/F&S/SRFC; Rev 0
30-July -2022

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1. GENERAL

All contractors shall comply with OWNER's Safety and Security Regulations set forth herein. These regulations are applicable for performing any work in FACT Udyogamandal Complex and any facilities belonging to FACT- UC

Contractor shall be bound by all the Safety provisions as per Indian Standards Institution, The Petroleum Act 1934, The Factories Act 1948, The Kerala Factories Rules 1957, The Gas Cylinder Rules 2016, The Indian Electricity Act and such other Acts, Rules and Regulations formulated by Local, State or Central Governments and other statutory bodies from time to time.

In addition to statutory rules and regulations applicable, Safety Practices to be followed in FACT Udyogamandal Complex are being described in this document for strict observance. The CONTRACTOR shall be held responsible for all lapses of these rules by his sub-contractors/employees.

2. SAFETY TRAINING

All Contractors, Contract supervisors, Contract labours and Drivers/ Helpers of Hazardous goods transportation vehicles shall undergo Fire and Safety Induction Training before the issuance of gate passes by the CISF.

The contractor shall submit a duly filled training request form (Annexure I) to the safety department. The training date will be informed by the safety Dept. All contract employees shall appear for refreshment training after the due date.

3. CLOTHING

All contract employees are forbidden to wear loose dresses like dhotis, saree, neckties scarfs and loose shawls inside the factory premises

4. MEDICAL FITNESS

The contractor shall employ only medically fit personnel for any work and the medical fitness certificate from a registered medical practitioner shall be submitted to the concerned Officer-in-Charge and Security department while taking an entry pass

The contractor shall submit the fitness certificate from a registered medical practitioner for the workers who are involved in working at a height of more than 30 metres using temporary structures and confined spaces. (Annexure-2 Pre-placement medical examination record)

5. INTOXICATING DRINKS & DRUGS AND SMOKING

- a. The Contractor shall ensure that all personnel working for him comply with the “No-Smoking” requirements of the Owner as notified from time to time. Cigarettes, lighters, auto ignition tools, torches or appliances as well as intoxicating drugs, dry tobacco powder, etc. shall not be allowed inside the factory premises
- b. The Contractor shall not allow any workmen who are under the influence of alcohol/drugs or any other intoxicating substances to carry out any work at FACT UC.
- c. The violators of above rules shall be sent of the premises immediately with temporary barring from entering the premises for two weeks.

6. MOTOR VEHICLE MOVEMENT

The contractor shall ensure that all traffic regulations and Motor Vehicle Rules are complied while driving inside the factory premises. In addition following rules shall also be followed. All vehicles shall carry only the number of passengers authorised to travel as per rules.

- a. Speed limit
The speed limit for all vehicles inside the factory premises is 20 km/h.
- b. Parking
All vehicles of contractors shall be parked in such a way that it doesn't create hindrance to the movement of fire tender and other vehicles. No vehicle shall be parked in front of fire station, hydrants and monitors etc. Vehicles shall be parked only in designated parking area and shall not be parked in plant premises.
- c. Safe Load
Vehicle shall carry only the load it is authorized to carry as per rules. Goods carried shall be properly secured so that they will not accidentally fall off /spill while vehicle is in motion. Goods shall not protrude beyond the platform of the vehicles carrying the goods, if protruding a red flag / red light (at night) shall be provided at the tail end of the protruded object.
- d. Passengers in Vehicles
No person shall be allowed to travel by sitting / standing / lying on the goods. Tractors/ Forklift etc. shall not be used for transporting personnel.
- e. Spark Arrestor
All vehicles shall be fitted with spark arrestor before entering the company premises.

7. RESTRICTION OF MOBILE PHONES

Use of non-intrinsic safe mobile phone and other wearable items like smart watch, ear phones etc is strictly prohibited in company premises. Contractor has to take clearance from CISF and safety department in case of using intrinsically safe mobile phones.

8. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Helmet, safety shoes, required PPEs and proper dress codes are mandatory to enter company premises, all contract workers shall wear YELLOW coloured safety helmets.

Contractor shall provide his workers PPEs required to carry out the work free of cost. PPEs shall be conforming to the relevant Indian standard.

In addition to the above requirement, any PPE which is required for safe execution of the job as per recommendations from Engineer-in-charge or Safety officers or any authorised person of that area shall also be used/ supplied by contractor to his workers. All PPEs used by contract workers shall be inspected periodically for any damages and replaced by contractor if found damaged.

Apart from respiratory apparatus (BA set & Canister Mask), if the contractor utilises any other PPEs issued by the safety Dept, FACT UC, Contractor will have to pay charges as per laid down procedure. In case of damages or loss of any materials / equipment provided by FACT on loan/returnable basis, same shall be recovered from the contractor's bill at the rate decided by FACT.

9. HOUSEKEEPING

The contractor should ensure proper housekeeping of worksite. All the scrap materials to be removed to scrap yard regularly. Materials and equipment should be stored in a safe and orderly manner so that they will not block exits to roads, buildings, aisles, passages and approach to fire fighting equipment such as fire hydrants, fire hoses and fire extinguishers or areas where emergency safety showers, electrical switch panels, manual call points and switch rooms are located.

10. WORK PERMIT SYSTEM

All works carried out in the company premises must be covered by a valid work permit issued by an authorised / competent person of the area. Presently permit system available are Cold work Permit, Hot work Permit, Work at higher elevation Permit/ Height Work Permit, Confined space work Permit, Excavation work Permit, Radiography work Permit, Electrical energizing/ de-energizing Permit.

All the Seven types of Work Permits are currently in electronic format and print out of the same will be issued upon approval, the print out shall be kept at site by contract supervisor and shall be shown to the safety officer for verification.

Note: For radiography work permit the contractor shall submit details of source along with decay certificate at Safety department and get prior approval of the Senior Manager (F&S). Before commencement of the work contract supervisor shall submit the serial number in the torch and decay chart for verification by the shift safety officer. The contractor shall be responsible for the safe storage and handling of any radiographic sources.

If there is any road cutting, the contractor shall submit a copy of the permit to safety department by stating the location of road cutting and get clearance.

11. WORKING AT HEIGHT

a. Scaffolding

Construction of Scaffolding shall be as per IS: 3696, scaffold clamp shall be used for scaffold erection. Use of any other material, such as coir, binding wire and plastic rope for scaffold erection shall not be permitted. Using materials such as bamboo, wooden poles, wooden platforms etc. for scaffolding is strictly prohibited

b. Ladder

Ladder used shall be of standard material like wooden/steel and be sufficiently strong conforming to IS: 3696 (Part 2). Ladder shall be secured at both end with ladder clamp, Ladder shall be in good condition.

c. Personal protective equipment's

Good quality full body harness with double lanyard conforming to relevant Indian standard shall be used for height works. If the anchoring point for safety harness is not available, provision of lifeline is mandatory. If the lifeline is a wire rope then the diameter shall be more than 8 mm and in case of Polyvinyl or polyamide lifeline, the diameter of the rope shall be more than 16 mm.

d. Isolation of the working area

While carrying out work at height, the area under the work shall be barricaded and proper sign board written as "HEIGHT WORK IS IN PROGRESS" shall be displayed to prevent unwanted access of other personnel.

12. CONFINED SPACES

a. Confined Space Entry Permit

Confined space entry permit shall be obtained from the area-in-charge prior to commencement of the jobs such as entry in to process vessels, storage tanks, reactors, sumps, ducts and excavations beyond 1.2 meters of depth etc. Contractor

shall maintain a register of personnel entering the confined space. The same shall be displayed at the entrance.

- b. Personal protective equipment: PPEs advised by Safety department to be used while commencing work at confined space.
- c. Only 24 volt DC electrical equipment shall be permitted to use inside confined spaces.
- d. Additional precautions advised by Safety department are applicable to commence work inside confined space considering the hazardous nature of the confined space.

13. EXCAVATION

All safety precautions as per IS: 3764 shall be followed while carrying out excavation. Contractor shall obtain clearance from Electrical, Instrumentation, Civil and Process departments before starting the work. He/she shall also ensure that the excavation does not damage any existing underground cables, pipelines, foundation of adjoining buildings or structures etc. Wherever possible excavation shall not be close and deep as to undermine safety of any adjoining building or structure.

When excavation work is to be undertaken, the contractor shall start digging manually to locate the buried utilities (water line, cables etc.) and thereafter use mechanical means. Cables scanning using instruments will be required in areas around high voltage cables.

The contractor shall maintain sufficient angle of repose during excavation, shall also provide battering and shoring wherever required to prevent collapse of edge of excavation.

The contractor shall arrange protective fencing / hard barricading with warning signal around excavated pits, trenches. Soil heaps shall keep at least 1.5M away from the edge or distance equal to the depth of pit (whichever is more).

14. COMPRESSED GAS CYLINDERS

Compressed gas cylinders shall be kept (both full & empty) in upright position and shall only be handled in trolley only.

Gas cylinders shall not be left at site after completing the work; it shall be shifted to the designated areas provided in plants before leaving the site. Compressed gas cylinders must never be stored or placed near hot equipment or lines. They must be protected against direct sunlight, high temperatures and contact with electrical circuits.

Storage and handling of gas cylinders shall be as per the regulations of gas cylinder rules 2016.

15. GAS CUTTING EQUIPMENT

Gas cutting equipment shall confirm to relevant Indian standard, approved flash back arrestors are to be provided on both cylinder and torch side. Contract supervisor shall ensure that all the parts of gas cutting equipment such as pressure gauges, regulator, hose and torch shall be in good working condition before starting the work. Contract supervisor shall conduct regular inspection of the unit for any damage.

Hoses used for oxygen gas and fuel gas shall be of two different colours. Two stage regulators with two gauges are mandatory. Oxygen gas and other gas hoses should be without any joint. If joint becomes essential, only approved connector with jubilee clips to be used. Hoses should not be wound over the cylinders.

Contractor has to ensure the availability of suitable fire extinguisher with each Welding and gas cutting set.

Equipments shall not be left at site after works; it shall be kept at designated locations of the plant or in contractor's workshop/store.

16. CONTRACTORS EQUIPMENTS AND MACHINERY

All the tools and tackles, lifting machines and gas cylinders shall get certified by a competent person and a copy of test certificates shall be submitted and got approved from Safety department. The tools and tackles, lifting machines, gas cylinders and other equipment's shall be inspected by the contract supervisor on a daily basis before the use. Contractor Name, Equipment Identification No. shall be printed on all the equipment. Equipment's safety systems shall not be tampered or bypassed.

Maintaining shed inside factory for storing tools and tackles, permission from competent authority shall be obtained. Permission will be against the work orders only. Contractors shall submit a declaration about the items stored inside their shed. The store shall be subjected to inspection of Safety and Maintenance dept with the presence of Contractors. If anyone is not allowing to inspect shed, the same shall be break opened in the presence of CISF after giving notice to contractor. If any contractor is not having any contracts inside FACT UC for 2 years from the date of completion of last contract, he/she shall vacate the shed.

Under no condition shall any CONTRACTOR'S personnel tamper with or use any property belonging to the FACT- UC without obtaining prior sanction from the Engineer in charge/ authorized person of area concerned.

17. USE OF OWNER'S EQUIPMENT

Owner's equipment must not be handled or tampered with by contractor's employees. Owner may grant permission to contractor to operate his equipment, if conditions so

require. Contractor shall not use Owner's equipment and tools without obtaining permission from Owner's representative.

18. USING LIFTING TOOLS/ TACKLES / MACHINERIES

The crane, lifting tackles, slings, D shackles, etc. used for the work at site shall comply with the statutory requirement and shall accompany with valid test certificates duly approved by statutory authority. Copy of the test certificate shall be submitted to the Engineer-in-Charge before commencement of site work. Safe work load and copy of the test certificate shall be displayed on the crane. Load chart shall be always available inside the crane. The cranes and all types of vehicles shall be fitted with reverse horns. Contractor shall not bypass safety switches/fittings such as hoist limit switch, boom limit switch, safe load indicator etc.

The operator/driver of crane / hydra shall possess HMV driving license and valid licence from statutory authority to operate crane/hydra.

19. ELECTRICAL SAFETY

- a. Safety precautions stipulated in IS 5216 and CEA regulations 2010 shall be adhered to while carrying out electrical works.
- b. In no circumstances the contractor shall be permitted to interfere with fuses and electrical equipment's belonging to the owner or other contractors.
- c. Earth Leakage Circuit Breaker (ELCB)/Residual Current Circuit Breaker (RCCB) of suitable rating shall be provided in the Electrical Distribution board of contractor's installation as per statutory requirement. The ELCB shall be checked once in a month for short term/shut down jobs.
- d. All distribution boards and plug tops shall of industrial type only. Domestic type power boards, double adapters, 3 pin plug adapters and homemade power boards shall not be used.
- e. All hand lamps shall be of 24 volts rating connected using 3 core double insulated flexible cables. The third core shall be used for earthing the hand lamp.
- f. All Electrical DBs and switchboards shall be standard industrial type, identifiable with Contractor's name displayed on it and cleared by Electrical dept.
- g. Flexible cables for portable lamps, tools, and apparatus shall be regularly examined, tested periodically and maintained to ensure safety and protected against mechanical damages.
- h. Unless certified as double-insulated, electrical tools must have the casing grounded.
- i. For getting electrical connections to the Contractor's equipments he shall give a written request to Electrical Shift in charge and satisfy him that the equipment is in good condition. And shall inform the in charge about maximum current rating, voltage and phase of the appliance. Permission for power connection will not be

granted until Owner/Engineer -in-charge is satisfied that the appliance is in good working condition and proper earthing connection provided.

- j. Only authorized persons shall carry out operation and maintenance of electrical systems.
- k. Work permit and isolation of the electrical system before taking up the work must be ensured.
- l. Do not overload electrical equipment. Do not fit make shift fuse wire.
- m. All electrical equipments like wires, switch board etc. shall be protected against rains or leaking water lines etc. in wet condition switches shall not be operated until it is dried up properly. Switches, starters shall be placed well above ground level.
- n. All welding jobs shall be properly earthed in work spot. Do not use structural earth.
- o. After the completion of work, please inform electrical dept. for power disconnection.
- p. All welding sets shall be double earthed with suitable capacity cables.
- q. The contractor shall bring power distribution boards, cables of sufficient length, power tools and other electrical equipments of adequate rating and capacity for the successful completion of work.
- r. All temporary connections to distribution boards, welding sets, power tools, etc. shall be given from industrial type sockets available at different locations in plant area. The contractor shall bring industrial type plugs of suitable rating for availing temporary connections.
- s. No work must be carried out on any live equipment. The equipment must be made safe and a work permit issued by Technician in Charge shall be taken before any work is carried out.
- t. Electrical tools shall be checked to ensure that the supplied voltage is comparable to the machine's design. Where required, electrical tools shall be properly earthed. High speed rotating equipment's such as grinders shall be fitted with protective guards. Power tools shall never be left operating unattended. Spark arrestors shall be fitted to all equipment exhausts where a risk of combustible gases in the atmosphere exists.
- u. Contractor shall ensure the following General safety precautions in electricity:
 - Proper protective equipment's shall be used.
 - Check for defective cables, loose joints in conduits, damaged fuse boxes, loose pins, faulty sockets, and defective earth wire.
 - Use right type of tools for the jobs.
 - After maintenance of flameproof fittings, ensure that the fittings meet requirements of flameproof standards.
 - Power supply cable shall be laid normally underground from source to the work place whether permanent or temporary.

- Jointing of cable shall always be made using proper junction box and flameproof junction box when in hazardous areas even in case of temporary connections.
- All equipments LT or HT which are likely to cause hazard shall be turned off and segregated. All base terminals etc, shall be insulated. Rubber mats shall be used for LT/HT switch room, where applicable.
- Proper earthing shall be provided for all electrical items and effectiveness of earthing shall be checked from time to time.
- Electrical items shall be handled after isolation and care shall be taken to identify and replace damaged electrical items. Guard wire shall be provided for A/G HT wires.
- Ensure all fuses are of good quality and conform to correct ratings. Use MCB's as far as possible.
- Electrical maintenance workmen working around a wet area near a fuse box must use wooden platform with rubber mat, insulated tools and rubber boots.
- The contractor shall bring adequately rated switch board / junction box, fitted with ELCB and other safety devices for getting temporary electrical connections to portable tools, lighting supply etc.
- No electric cable in use by other Contractor/Owner will be disturbed without prior permission. No weight of any description will be imposed on any such cable and no ladder or similar equipment will rest against or be attached to it.
- All equipments shall be properly earthed, and cables properly insulated and connected.

20. FIRE SAFETY

The contractor shall take all necessary precautions to prevent outbreak of fires at the site. Handling and storage of flammable materials shall be as per the regulation of the company.

Permission must be obtained from concerned authority prior to CONTRACTOR'S personnel drawing water from the owner's fire water network. After the requirement of water is over, it shall be COMMUNICATED to the Fire station.

For storing flammable / explosive materials permission from safety department shall be obtained and storage shall be in compliance with all applicable rules.

All hot work sites shall have suitable type and number of fire extinguishers. If needed, fire extinguishers will be provided from fire station-petro against the work order upon request of the contractor.

21. EMERGENCIES

On hearing the emergency Siren or reporting any emergency (Fire, Acid spillage, oil spillage, gas leak, etc.) contractor's personnel shall safely stop their works and

proceed to the nearest assembly point. Before recommencement of the work, they should obtain clearance of Engineer in charge/ authorized person of the area.

Before commencement of any work contractor's personals shall identify following;

- i. Assembly point close to the location of the work.
- ii. Location of MCPs (Manual Call Points), Safety Showers & pond, Fire extinguisher and ambulance point number close to the area of work.

22. UNSAFE ACTS / CONDITIONS

No contract workers shall carryout unsafe acts or disregard of normal safe working practices. Any unsafe acts / conditions pointed out by any FACT employees or from Fire and Safety Department shall be immediately corrected.

The Safety Department is empowered to suspend any activity of the Contractor or his workmen and send them out if they fail to follow safe system of work with information to concerned Department Head.

Any contract personnel involved in violation of safety norms will be charged with fine as indicated in the Financial Deterrent norms of FACT.

23. REPORT ON ACCIDENTS /INCIDENT/ NEAR MISSES

- a. All accidents/ incidents shall be reported to Safety department through concerned engineer-in-charge / shift-in-charge immediately after occurrence.
- b. Medical treatment for injured Contractor's personnel will be entirely the responsibility of the Contractor. However, if required, emergency first aid treatment will be given at OHC.
- c. If any injured contract personnel fails to report back on duty in 48 hours after incident, status of the injured personnel and the date of return to duty shall be informed to Engineer-in-Charge and Safety Department.
- d. The contractor's personnel shall also report all near miss incidents at the work site to and Safety department through the near miss reporting boxes.
- e. All Accidents/ Incidents/ First Aid cases shall be reported to Safety department in prescribed format (accident report) though engineer in charge within 24 hrs.

24. QUALIFICATION AND EXPERIENCE OF MANPOWER TO BE EMPLOYED

- a. If a contractor is employing less than 30 employees, he shall designate one dedicated supervisor as a safety steward. For every 30 persons or more, contractor shall appoint one qualified safety steward (Diploma in industrial safety or equivalent qualification such as NEBOSH etc). In addition to above contractor shall also appoint one safety officer for every 100 workers. Safety officer shall have Diploma in Industrial Safety or any equivalent qualification from Government Recognized Institute and minimum 2 years of relevant industry experience. In

both the cases, the contractor must specify in writing the name of such persons to the engineer in-charge.

- b. Contractors shall deploy only experienced and qualified supervisors and workmen, who are well conversant with the Safety Regulations of FACT-UC.
- c. Also supervisors shall have sufficient knowledge of English language to understand Work permit system, work instructions, drawings and they should be able to assimilate the safety training inputs provided by FACT-UC Safety Officers.
- d. Past experience must be for same type of job for which the supervisors would be engaged.
- e. Contractor's skilled workmen like riggers, scaffolders, welders, fitters, crane operators, other specialized equipment operators like hydro-jetting, shot blasting, use of jacks, diamond cutting etc must have sufficient past experience and skills on relevant jobs.
- f. All workmen shall be capable of following instructions and training.

25. PERSONAL CONDUCT

The following activities / behaviours on the part of Contractor's personnel are strictly forbidden:

- a. Entering the factory premises while in possession of any type of weapons.
- b. Fooling on the work, mock fighting or fighting within the factory premises.
- c. Gambling within the factory premises
- d. Contractor's personnel shall not pick up quarrel or get into arguments with FACT employees/consultants'/ other contractor's personnel/ any other persons.
- e. Contractor's employees shall furnish / submit their security pass to Safety department whenever asked to do so, and failing which it will be considered as violation of safety regulations.

26. SPECIAL SAFETY CONDITIONS

1. Contractor shall maintain a register to record name of the persons engaged at a particular site on a daily basis.
2. Contractor supervisors and workers shall always carry their entry passes with them and it has to be produced on demand.
3. Contract personnel shall not use Plant areas, Pump houses, cable cellar rooms, substations, etc. for changing clothes, taking food, resting, etc.
4. The contractor shall notify FACT UC of his intention to bring on site any equipment or container holding liquid or gaseous fuel or other substances, which might create a hazard. The Owner will have the right to prohibit the use of such equipments or to prescribe the conditions under which such equipment may be used.
5. No workers/ contractors shall take rest or have food from plant premises. Sleeping and sitting below equipments/machines or in plant premises are not allowed.
6. Safety Department have the right to seize equipments, tools or PPEs used by contractors inside FACT which are non-standards or unsafe to use.

7. In addition to the Safety Regulations for Contract works, contractor shall follow all instruction of Safety department.

27. FINANCIAL DETERRENT FOR VIOLATION OF SAFETY NORMS BY CONTRACTORS

All contractors working in FACT Udyogamandal Complex have to strictly follow safety and security regulations. Contractors who are violating safety norms while executing the job will be penalized financially. Apart from financial deterrence, serious violations shall result in temporary or permanent de-listing and barring of the contractor. Penalty amount for violation / non adherence of various safety norms is given below.

CODE	Violation	Penalty Amount
SV-01	Working without proper Authorization / Permit	Rs.1000/- per case & holiday listing of 3 years if repeated.
SV-02	Violation of any of the conditions specified in the permit	Rs.500/- per permit
SV-03	Failure to keep work permit/ site reference copy at site.	Rs.500/- per case
SV-04	Working at height without safety belt./ Arrangement as required	Rs 1000/- per person per case.
SV-05	Not wearing Mandatory PPEs or wearing defective PPEs	Rs.500/- per person per case.
SV-06	Not following dress code inside Factory premises.	Rs. 200/- per person per case.
SV-07	Non-use of ELCB or use of faulty ELCB , using poor joints of cable, using naked wire without top plug into the socket , laying wire/cables on the roads, carrying out electrical jobs by incompetent person/Any unsafe activity on electrical equipment	Rs 1000/- per each case.
SV-08	Over speeding of vehicles, rash driving, wrong side parking, wrong side driving, not wearing seat belt or any other road safety violation.	Rs.500/- per case
SV-09	Unauthorized parking of contractor's vehicles/cranes inside the factory. Parking vehicles/cranes beyond the allotted time/date without parking permission after the completion of work.	Rs.500/- per case/day
SV-10	Non usage of trolley, flash back arrestor in gas cutting equipment or using damaged	Rs.500/- per item per case

CODE	Violation	Penalty Amount
	hoses for gas cutting	
SV-11	Unauthorised Use of Mobile phones inside the company.	Rs.1000/- per each case
SV-12	Carrying or use of prohibited material like match box, cigarette, tobacco, lighter and other ignitable materials	Rs.1000/- per each case
SV-13	Leaving gas cylinders unattended in site after completing work	Rs.200/- per day/item/person
SV-14	Use of non-certified lifting tools and tackles	Rs.100/- per day/item/person
SV-15	Failure to report accidents / incidents	Rs.300/- per day/item/person
SV-16	Intoxication / smoking inside company	Rs.1000/- per day/item/person Along with temporary barring of person from entering company for two weeks
SV-17	Any other serious violation of safety and security norms.	Rs.1000/- per day/item/person
SV-18	Accidents inside factory premises with damages to property*	

**The compensation for the damages caused will be decided by company and amount will be deducted from the bill*

First violation - warning
Second Violation - fine
Third Violation - barring of the personal

Notes:

The above penalties will be applicable for all the contracts jobs carried out inside the factory and covered by FACT HSE norms / work permit system.

Person will be sent out from the company premises in case of violations more than 3 times.

In case of frequent penalties for a particular contractor, necessary action such as holiday listing / delisting will be taken.

Implementation of above financial penalties for violation of HSE norms does not absolve contractors from their responsibilities to take at all times due and proper precautions to avoid injuries and accidents.

Contractors shall own the full responsibility for any accident and injury to any of the workers or to any person or persons or property arising due to violation of HSE norms by contractors even though financial penalty is not applied for such violation

Sample of Financial Deterrent Acknowledgment Form is attached as *Annexure III*

Fine amounts of safety violations will be deducted from the bills of contractors.

Signature :

Name of Contractor :

ANNEXURE -I
TRAINING REQUEST FORM

Name of Contractor

W O No:Details of work.....

Sl No	Details	Stamp size photo	Remarks
1.	Name: _____ Date of Birth: _____ Aadhar No: _____ ESI / Insurance No: _____ Emergency Contact No: _____ ☐ Contractor ☐ Supervisor ☐ Worker		
2.	Name: _____ Date of Birth: _____ Aadhar No: _____ ESI / Insurance No: _____ Emergency Contact No: _____ ☐ Contractor ☐ Supervisor ☐ Worker		
3.	Name: _____ Date of Birth: _____ Aadhar No: _____ ESI / Insurance No: _____ Emergency Contact No: _____ ☐ Contractor ☐ Supervisor ☐ Worker		
4.	Name: _____ Date of Birth: _____ Aadhar No: _____ ESI / Insurance No: _____ Emergency Contact No: _____ ☐ Contractor ☐ Supervisor ☐ Worker		

One stamp size photo shall be submitted in safety department with name written on back side for the purpose of training card. Safety Training will be on Saturdays except on national holydays. Form Shall be submitted in safety department 3 days prior to training day.

Signature & Seal of Contractor

Signature & Seal of Safety Officer

ANNEXURE -II
PRE-PLACEMENT MEDICAL EXAMINATION RECORD

Date:

Name :	D.O.B :
Sex : M / F	Reg. No. :
Post :	Dept. :

I. GENERAL EXAMINATION

1.Height :	2. Blood Group :
3. Weight :	4. BMI
5. Chest :	6. Past History of :
a) Normal :	a) HTN :
b) Expansion :	b) Asthma :
	c) Others :
	d) Present Symptoms :
7. Skin :	
8. Lymph Nodes :	9. Habits :
	a) Alcohol
	b) Smoking
	c) Others
9. Thyroid :	
10. Eyes :	Family History
a) Acuity of vision :	
b) Colour vision :	
c) Titmus Vision Testing :	
11. Ear, Nose, Throat	
12. Oral Cavity Teeth	

II. SYSTEMIC EXAMINATION

1.CVS	Pulse :	B.P : -Hearts Sounds Murmur
2. RS -	Lung – <u>For work at confined spaces</u> :Pulmonary Function Test	
3. AS -	Liver - Spleen Hernia	
4.CNS – <u>For work at height</u> Romberg's test : Straight line walking test : Tandem walking test :		
5.Genito – Urinary SystemExternal Genitalia		
6. Locomotor System..... ImpairmentDeformities		

III INVESTIGATION

1. Routine :	2. Special
a)Urine :	a) X-Ray Chest
b)Blood :	
3. Investigations :	
ECG :	Blood Bio-Chemistry:
4. Conclusion	
Examining Medical Officer	

ANNEXURE -III

 The Fertilizers and Chemicals Travancore Ltd.
 Udyogamandal Complex

Financial Deterrent Acknowledgment Form

Date: .../...../..... Time: Location:

Name:

Training Card No:

Contractor:

WO No:

Violation:

.....

.....

.....

.....

.....

Amount:

SIGNATURE OF SAFETY OFFICER

ROUTING: SM (F&S) / CONCERNED DEPT. DGM / DGM (FIN)

 FACT	FACT CORPORATE MATERIALS -CONTRACTS	Tender No. 03012/2026-2027/E34041
<u>SPECIAL CONDITIONS OF CONTRACT</u>		Page 1 of 2
		SCHEDULE - Q

Name of Work:- Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

- 1.0 The materials, design and workmanship shall satisfy the relevant Indian Standards. The job specifications contained herein and codes referred to. Where the Technical Specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied. In the absence of any standard/specifications covering any part of the work covered in this Tender, the specifications to be followed shall be the latest FEDO specifications applicable in this region and instructions/directions of Engineer-in-Charge will be binding on the Contractor.
- 2.0 The contractor should engage sufficient number of workers as required so as to complete the entire work within the specified time schedule of work.
- 3.0 In case the Company provides covered space in connection with the work, the contractor shall vacate and hand over the premises to the authorities immediately after the completion of the work in the same condition in which it was taken over.
- 4.0 The company reserves the right to terminate the contract partially or wholly at any time during the period of contract.
- 5.0 The work should be undertaken strictly as per instruction from the site Engineer. Final acceptance of the work will be subject to inspection by the Engineer-In-Charge.
- 6.0 The decisions of the Engineer-In-Charge with regard to the workmanship/priority areas/type of paint and number of coats to be applied etc. will be final and binding on the contractor.
- 7.0 The company will not be responsible for payment of any compensation for any hold up of works due to strike or situation beyond the control of the company.
- 8.0 The Contractor is bound to do works in excess of that in the schedule of quantities or extra items of works necessitated during the actual execution of work and for such works payments will be made as per the agreed rates or at the rates based on which tender is issued plus or minus tender difference as the case may be. Alterations/additions, if any, should be done as per instructions of the Company.
- 9.0 The contractor should strictly observe the safety and security regulations of the company. Any loss or damage incurred by the Company on account of the contractor's failure or that of the contractor's employees to observe the security and safety regulations of the company shall be to the contractor's account.

10.0 FRAUD PREVENTION POLICY: Bidders shall comply with Fraud Prevention Policy of FACT 2012 (FPPF 2012). The said Policy is available in FACT Website www.fact.co.in

11.0. **Security Deposit:**

Within 15 days of the receipt of the order, the contractor shall remit security deposit of an amount calculated as 10 % of the Work order value towards security for due and faithful performance of the contractor. The security deposit shall be remitted either by Bank guarantee (preferably e-BG) from a Nationalized/Scheduled Bank in the prescribed format issued by FACT or online through 'State Bank Collect' portal using the link given below.

[https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=9303&categoryName=Earnest%20Money%20Deposit%20\(EMD\)/SD%20Remittance](https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=9303&categoryName=Earnest%20Money%20Deposit%20(EMD)/SD%20Remittance)

The link is also available on of our website www.fact.co.in (Tenders ➡ 'Click here to pay EMD/ Security Deposit'). The Security Deposit shall be released on satisfactory completion of the work provided the contractor has cleared all dues and rectified defects, if any.

If the contract is fails to commence execution of the work on the stipulated date, the EMD/SD furnished shall be liable to be forfeited without prejudice to FACT's right to claim damages.

12.0 **Agreement:**

For contracts amounting to Rs.3.00 lakhs and above, the contractor shall execute a formal agreement between FACT as per preform on a stamped paper worth Rs.200/- before starting the work.

13.0 **Environment Management:**

We are a company having Environmental Management System according to ISO 14001 standard. The contractor shall ensure that none of their activities cause damage to the environment. Special care shall be taken in packing and transportation to avoid spillages, or release of any hazardous gases / dust to the atmosphere. The worker employed by the contractor shall be properly trained for handling of the materials and for dealing with emergencies arising out of spillages or releases. Suppliers of chemicals shall provide us with Material Safety Data Sheets (MSDS) of the chemicals. Contractor shall ensure that all waste material/debris from the work site will be removed to the area earmarked or the purpose immediately after completion of the work.

 FACT	FACT CORPORATE MATERIALS - CONTRACTS	Tender: 03012/2026-2027/E34041
<u>SPECIAL REQUIREMENTS OF THE CONTRACT</u>		Page 1 of 5
		SCHEDULE - Q1

Name of Work:- Emergency re-tubing of heat exchangers E432-A and E432-B in Ammonia Complex.

This 'Special Requirements of Project' form part of the contract and is to be read in conjunction with the Proforma conditions of contract. Wherever the provisions under Special Requirements of Project are in conflict with any of the provisions under other conditions, provisions in the Special Requirements of Project shall prevail.

1. INTRODUCTION

E432 A & B, Second stage Intercoolers for Syn Gas Compressor K431, are shell and tube heat exchanger, of type AEM. They are stacked one above the other. For technical details of these exchangers refer Annexure III- GA drawing of E432 A/B. In this work, it is planned to undertake re-tubing of all tubes of E432-A and B.

2. SCOPE OF WORK

The work includes all the activities required for the re-tubing of the exchanger with new set of tubes at site and hydro testing the exchanger.

1. If considered advantageous for execution, the heat exchangers may be dismantled at site and transported to vendor's workshop for carrying out the re-tubing work. In such a case, dismantling, transportation (to and from the workshop), reinstallation, and all associated activities like shell side flange dismantling and boxing up shall be included in vendor' scope at no additional cost. Also Bank Guarantee as stated in Clause 4 shall be applicable.
2. Arranging necessary scaffolding for the re-tubing and inspection.
3. Visual inspection of equipment shall be carried out prior to re-tubing. Dimensional check shall be done during inspection (i.e. overall length of the equipment). Check the dimension of the available spare tubes. Dimension check shall be approved by the Engineer in charge before proceeding further.
4. Cut and remove old Plugs (If available) and remove the weld metal where required for welded tubes using standard cutters.
5. Perform the sweep blasting/ mechanical cleaning on both Tube sheet faces before tube removal. Take precaution on Gasket surface area.
6. Remove the existing weld metal using tube facer / bevelling tool and Cut all the tubes at tube-sheet with the correct specification of cutting tools (i.e. internal tube cutter).

7. Remove the existing tubes from the exchanger.
8. Re-groove or reaming of Tube sheet holes as required. Bevel the External tube-sheet holes and clean the tube sheet holes ensure that dirt or foreign materials are not present.
9. Perform 100% Dye Penetrant Testing on tube-sheet holes after machining contour radius.
10. Visual inspection and dimensional inspection of tube sheet holes. Record tubesheet hole diameter to determine tube wall thinning (10% tube quantity). Inspection of tube sheet contour radius for carrying out strength weld. Please refer Figure 2 in Appendix 1 for tube sheet contour details.
11. The transportation of the new tubes from the FACT Stores (Udyogamandal) to the site. Cleaning and dressing of the tubes to the required length.
12. Insert New Tubes; new tubes to be inserted must be clean and free from oil and dirt. Extra care shall be observed during tube insertion to avoid any tube and tubesheet damage.
13. Set the tube projection as per drawing. The tube projection shall be minimum 3mm. Weld first pass on tube-to-tube sheet joints as per approved WPS and qualified welder. Welder qualification shall be in the scope of contractor. Perform 100% Dye Penetrant Testing after completion of 1st pass welding. The filler wire for tube welding shall be ER 70 S2.
14. Weld second pass tube-to-tube sheet joints as per approved WPS and qualified welder. Perform 100% Dye Penetrant Testing followed completion of 2nd pass welding.
15. Carry out tube expansion after completing of tube to tube-sheet welding activities. Percent of tube wall thinning for light expansion shall from 1% to 3% and verified by three point bore gauge. (% may vary according to plant standard). The tube expansion shall be as per agreed Tube Expansion Procedure (TEP). The bore gauge is in the scope of the contractor.
16. Air leakage test (Pneumatic test) for tube-to-tube sheet joint after expansion with soap air at 1.25 Bar G or design pressure whichever is smaller.
17. Final Visual Inspection after completion of re-tubing activities
18. Carryout hydro test on shell side tube side as per required test pressure. Any arrangements like blinding / deblinding of the flanges, fabricating slip plates and nozzle arrangement for pump connection, hydraulic pump, pressure gauges for carrying out hydrotest is in the scope of contractor.
19. Complete draining of water and drying out of the shell and tube side shall be ensured after hydro testing / in-prior to N2 purging.
20. Contractor shall transport all the old tubes to scrapyard, after weighing at Weigh Bridge at North Gate FACT UD.

3. SCOPE OF FACT

1. Electricity, water and compressed air shall be supplied at one point near the site by FACT, free of charge, and contractor has to make his own arrangements for the safe distribution of the same to his consuming terminals. All the junction boxes used by the contractor shall have ELCB. Contractor shall also have a qualified electrician at site for providing electrical

connections for the job.

2. Removal and re-fixing of channel head and end cup of heat exchanger.

4. BANK GUARANTEE

In case the successful bidder is transporting the heat exchanger and new tubes outside the premises of FACT, a bank guarantee amounting to 20 Lakh shall be executed.

5. PERIOD OF CONTRACT

The total period of the Contract work shall be 15 days from the date on which the contractor is asked to start the work. Being an emergency work, the work force along with necessary tools shall be mobilized immediately upon issuing of work-order so as to start the work on the next day.

6. WARRANTY

The work shall be guaranteed against workmanship for a period of 90 DAYS from the date of completion. Any defect / leak noticed during testing shall be rectified free of charge by the contractor.

7. PAYMENT TERM

100% Payment shall be made on completion of work, for the actual quantity of work done and against the bill duly certified by the Engineer-in-Charge.

8. SPECIAL CONDITIONS

1. Being high pressure rated heat exchanger, FACT does not advice to cut window on the shell side to facilitate re-tubing work. Contractor shall use advanced and sophisticated tools for removing the old tubes and for fixing the new tubes without opening the window on shell side. However, if the contractor requires window opening to carry out the work may do so by using grinder only. The shell shall be closed back using the same removed pieces by welding with proper edge preparation and compensation plates. 100% DPT, Ultrasonic testing, Radiography test shall be done in weld joints. The entire activities of cutting, welding back the shell portion and arranging ultrasonic and radiographic inspection shall be under the scope of the contractor without any extra cost. The contractor shall ensure that entire activities including radiography test shall be completed within the given time period.
2. All the tools and tackles and consumables like DP test kit required for the job is in the scope of the contractor. All the measuring tools required for the inspection of the job is to be arranged by the contractor.
3. Dismantling of any structural / pipeline / support etc. for the execution of work and fixing back in its original position after completion of the work, shall be under the scope of the contractor without extra cost.
4. Bidders may visit the site before quoting to get a clear idea of the activities to be carried out / constraints coming under this contract.
5. The contractor shall strictly adhere to the approved work schedule and no change in the schedule would be permitted. Contractor shall arrange the work around the clock in

multiple shifts of 12 hour each. The same shall be reflected in the bar chart / programme chart submitted by the contractor.

6. Free issue of materials, by FACT, shall be limited to heat exchanger tubes, gaskets / gasket sheets and fasteners for the actual quantity of requirement. Transportation of free issue materials from FACT UDYOGAMANDAL COMPLEX stores is in contractor's scope.
7. The contractor shall strictly follow the Safety Rules prevailing in FACT Ammonia Complex and insist the workers to use proper personal protective equipment while on job. NO WORKER WILL BE ALLOWED TO WORK INSIDE THE COMPANY PREMISES WITHOUT PROPER PPE'S FOR THE JOB. If any accident / damage occur during the work due to the lapse of the Contractor, the Contractor shall be responsible for all such losses. THE PPE'S FOR THE JOB IS IN THE CONTRACTORS SCOPE.
8. All the personal employed by the contractor inside the premises of the company shall be in boiler suits with all required PPE's for the job.
9. All tools, lifting tackles, construction materials such as welding sets, angle grinders, cutting equipment and all consumables such as welding electrodes, grinding wheels, cutting gases, DP sets or all other item other than those items specifically mentioned under the scope of FACT, required for the successful completion of the work shall be under the scope of contractor.
10. Tube to tube sheet welding shall be through TIG welding and the filler wire to be used for the seal welding of tubes is ER 70 S2. Filler wires and electrodes – Refer Annexure C. The work shall be carried out strictly as per the instruction of the Engineer-in-charge.
11. The work shall be carried out strictly as per the instruction of the Engineer-in-charge.
12. The fitters / welders / riggers employed by the contractor shall have sufficient experience in their respective fields. The contractor shall employ only qualified fabricators and welders who have proven experience of similar work and get approval from FACT before engaging on the job. A welder qualification test shall be carried out for each of the welder assigned for the job. It shall be the responsibility of the contractor to arrange for the welder qualification, at his cost. Welders employed for this work, shall have prior experience in carrying out TIG welding of tube to tube sheet joints.
13. The contractor should appoint a full time Technical Supervisor who has a minimum educational qualification of Diploma in Mechanical Engineering, as approved by the Engineer-in-charge. He will be responsible for the proper execution of the work. The Supervisor shall be available at site during all working hours throughout the contract period for supervision and co-ordination with the Engineer-in-charge of FACT.
14. Flood lights/hand lamps required shall be arranged by the contractor. 24V Hand Lamps only are permitted to use inside confined spaces.
15. Company shall not render the services of heavy equipment such as crane, fork lift etc. for this work
16. The contractor shall arrange necessary scaffolding for safe execution of the work at no extra cost. All the scaffolding shall be dismantled and site shall be cleared after completion of work. Contractor shall arrange the necessary scaffolding for pulling out the tubes before

the shutdown of the plant.

17. This contract is also governed by the 'General Conditions of Contract' attached with the tender documents. In the event of any variation or contradiction between Special Conditions and General Conditions of Contract, Special Conditions of Contract will prevail.
18. FACT Ammonia Complex follows ISO 50001:2018 Energy Management System in its activities. The contractor shall follow energy efficient tools, systems and technologies for carrying out the job.
19. The Contractor shall abide by the existing labour contract agreement in Udyogamandal Complex which calls for employment of local labour force on quota basis at prescribed rates and conditions. Necessary details regarding the same may be obtained through FACT Human Resources department.

APPENDIX 1 - JOINT DETAILS

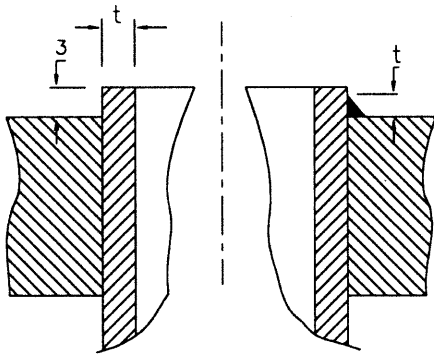


FIG-1

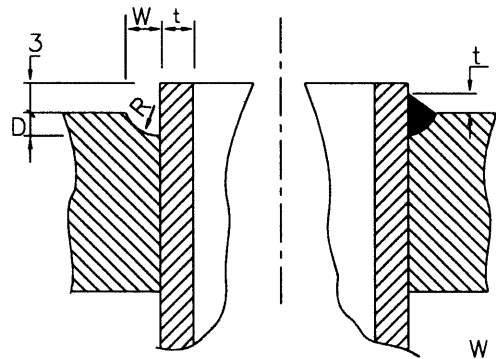


FIG-2

$W = t$
 $R = t$
 $D = t$ FOR $t \leq 3$
 AND
 $= 0.6t$ FOR $t > 3$

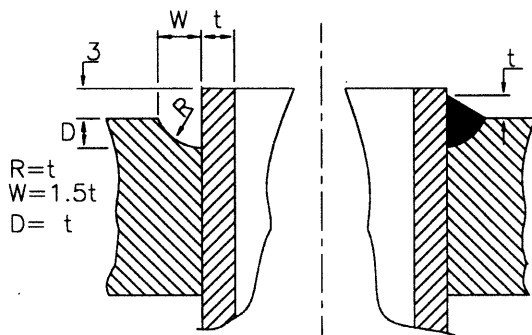


FIG-3

$R = t$
 $W = 1.5t$
 $D = t$

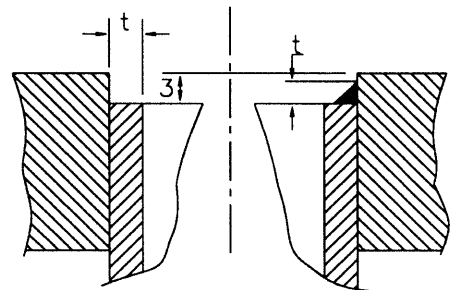


FIG-4

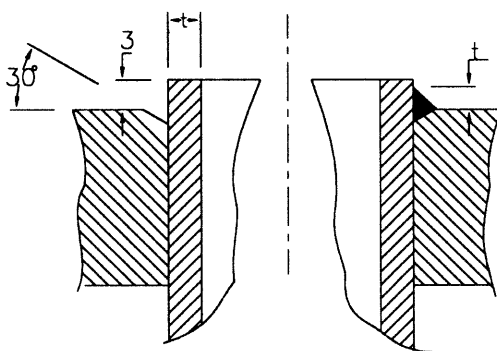
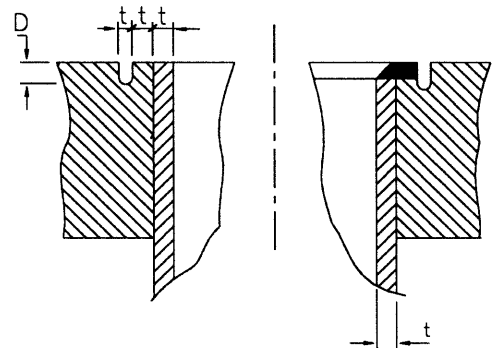


FIG-5



$D = 1.5t$ TO $2t$

FIG-6

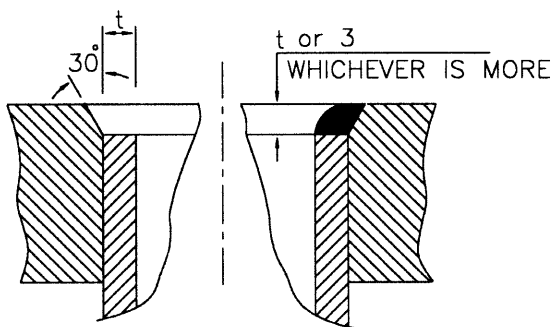
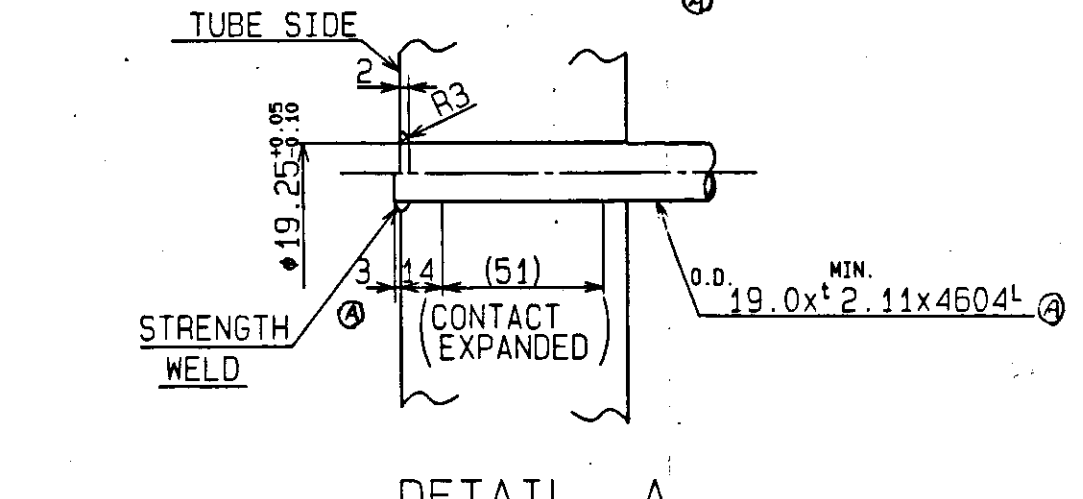
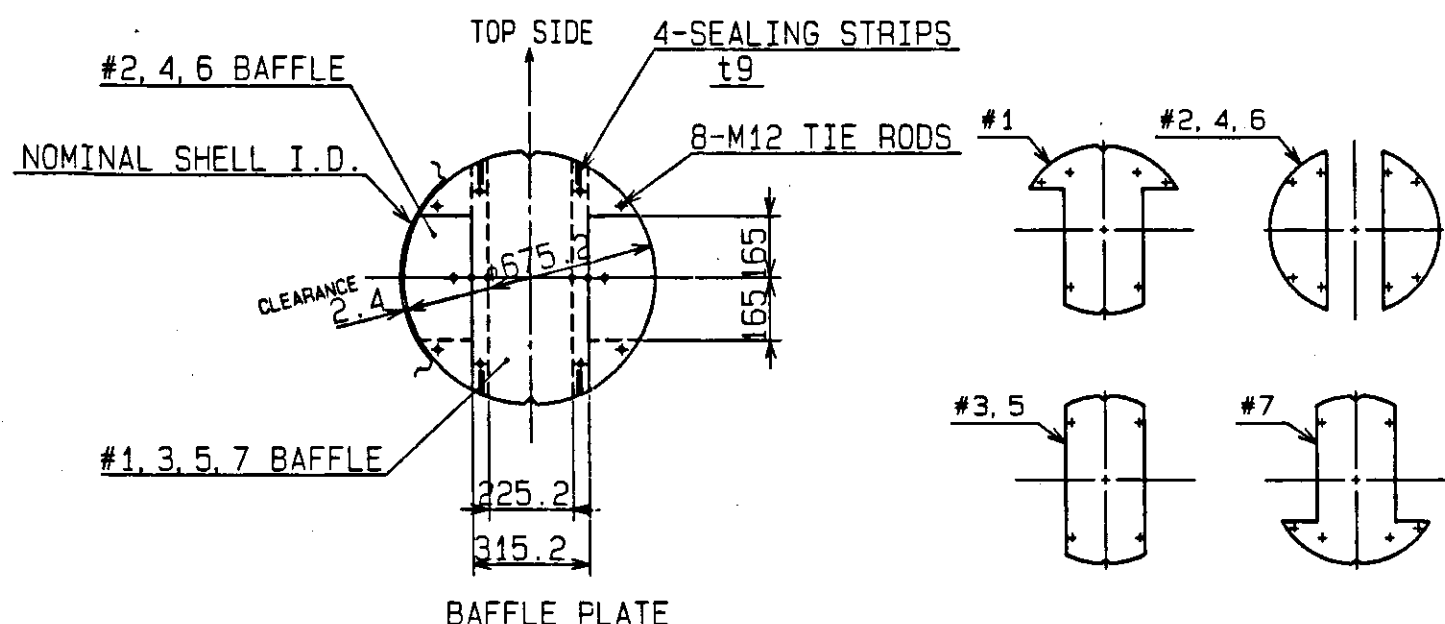
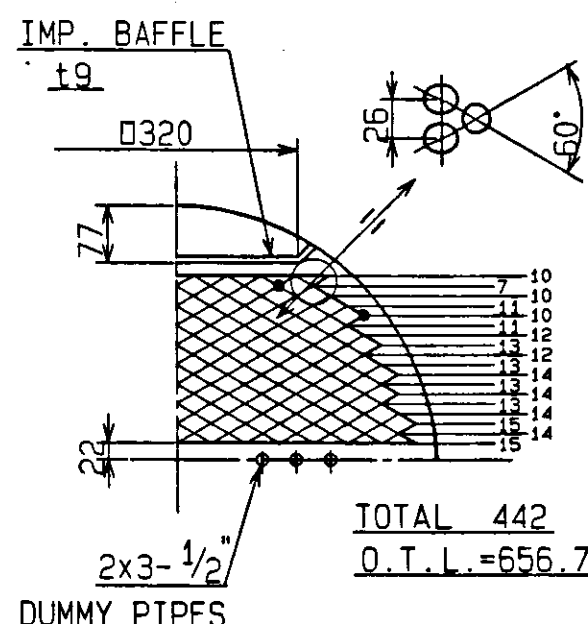
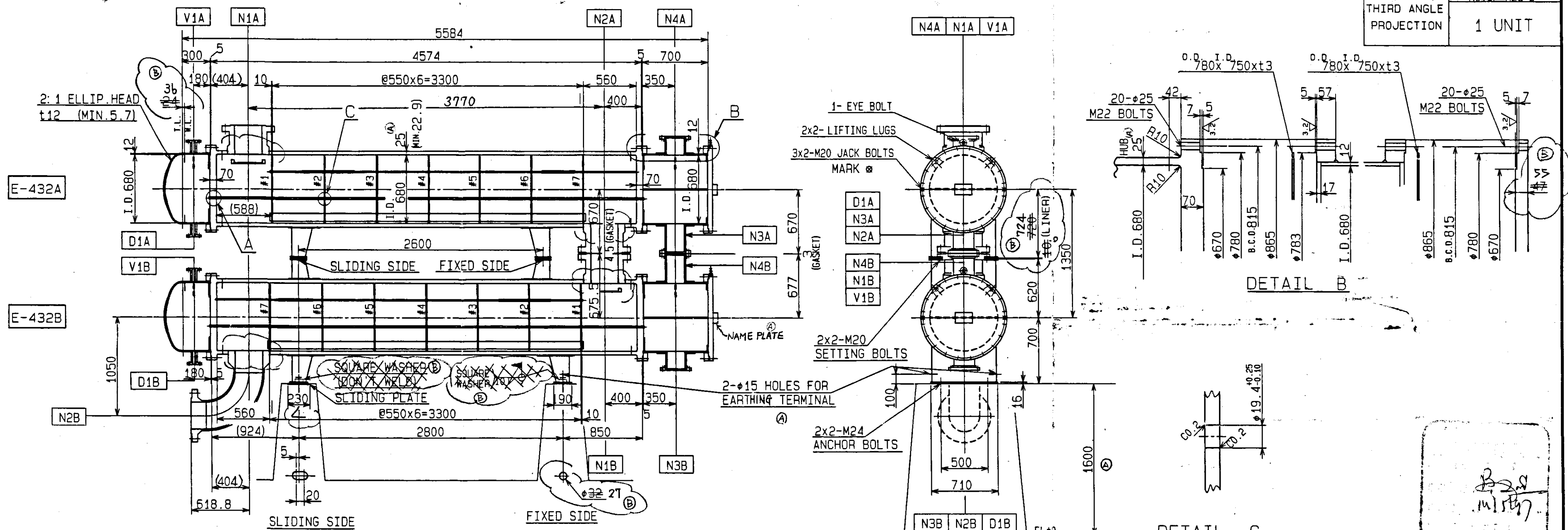


FIG-7

t or 3
 WHICHEVER IS MORE



FACT, Udyogamandal, India
900 MTPD Replacement Ammonia Project
Prepared for HALDOR TOPSOE A/S
HTAS Job No. 28526
HTAS PO No. 28526/3020/01-102/002/1002
Vendor's ref. No. 353301/002000
Item No. K431 & TK431
Item description: SYNTHESIS GAS/RECIRCULATION
COMPRESSOR & STEAM TURBINE

MARK	NO.	SIZE	Sch. No.	RATING	FACING	SERVICE	Q. TO FACE
V1B	1	40	160	ANSI150LWN	RF	VENT	510
D1B	1	40	160	ANSI150LWN	*	DRAIN	510
N4B	1	200	80	ANSI150 SO	*	C.W. OUTLET	SEE DWG.
N3B	1	200	80	ANSI150 SO	*	C.W. INLET	560
N2B	1	300	80	ANSI1600 WN	*	GAS OUTLET	SEE DWG.
N1B	1	300	80	ANSI1600 WN	RF	GAS INLET	SEE DWG.

E-432B

E-432A

PART NO.	PART	MATERIAL	REMARKS	PART NO.	PART	MATERIAL	REMARKS
17	GASKETS (CHANNEL SIDE)	COMP. ASBESTOS	T-1500 or EQ.	16	GASKETS (SHELL SIDE)	COMP. ASBESTOS	T-1500 or EQ.
15	NUTS	A194-2H		14	BOLTS	A193GC87	
13	SPACERS	A536 OR EQ.		12	TIE RODS	A36 OR EQ.	
11	BAFFLES	A283GC OR EQ.		10	CHANNEL NOZZLE FLANGES	A105	
9	NOZZLE NECKS	A1056 OR A105		8	SHELL NOZZLES	A105, A234WPB	
7	TUBES	A179		6	TUBESHEET	A266C2.4	
5	CHANNEL COVER	A516 OR A515		4	CHANNEL HEAD	A266C2.4	
3	CHANNEL FLANGE	A266C2.4		2	CHANNEL SHELL	A266C2.4	
1	SHELL	A516G70					

MATERIAL SPECIFICATION

FABRICATION WEIGHT	137600	Kg/UNIT	E432B	SHELL	45° C	TUBE	34° C
OPERATION WEIGHT	157200	Kg/UNIT	E432A	SHELL	70° C	TUBE	43° C
FULL WATER WEIGHT	177800	Kg/UNIT					
MIN. METAL TEMP.	5 °C	5 °C					
INSULATION	NO	NO					
PAINTING	YES	YES					
NO. OF PASSES	1	2					
CORROSION ALLOWANCE	3.2 mm	3.2 mm					
JOINT EFFICIENCY	100 %	85 %					
RADIOGRAPHING	FULL	SPOT					
POSTWELD HEAT TREATMENT	YES	NO					
PNEUM. TEST PRESS.	YES						
HYDRO. TEST PRESS.	112.5 kg/cm ²	10.5 kg/cm ²					
OPERATING TEMP.	88.6/38 °C	32/42 °C					
OPERATING PRESS.	62.72 kg/cm ²	3.5 kg/cm ²					
DESIGN TEMP.	150 °C	70 °C					
DESIGN PRESS.	68 kg/cm ²	7.0 kg/cm ²					
FLUID	SYN. GAS	COOLING WATER					
SHELL SIDE							
TUBE SIDE							
SURFACE AREA	234	m ² /UNIT					
CODE	ASME SECT. VIII DIV. 1 & TEMA						

ACH-2-1093

SECOND PLANT ENGINEERING SECTION	ORDER ITEM NO. 353308	CUSTOMER	TOPSOE/FACT, INDIA
		PROJECT NAME	900MT/D REPLACEMENT AMMONIA PROJECT
			E-432A/B
			2ND STAGE SYN. GAS COOLER
			ASSEMBLY & SECTIONAL DRAWING
CHIEF	N. Ohuchida.		
HEAD	K. Takijiri.		
CHECKED BY	M. Yamamoto.		
DRAWN BY			
DWN. DATE	1995.2.10	SCALE	1/30
		DWG. NO.	433-21756
		REV.	(B)

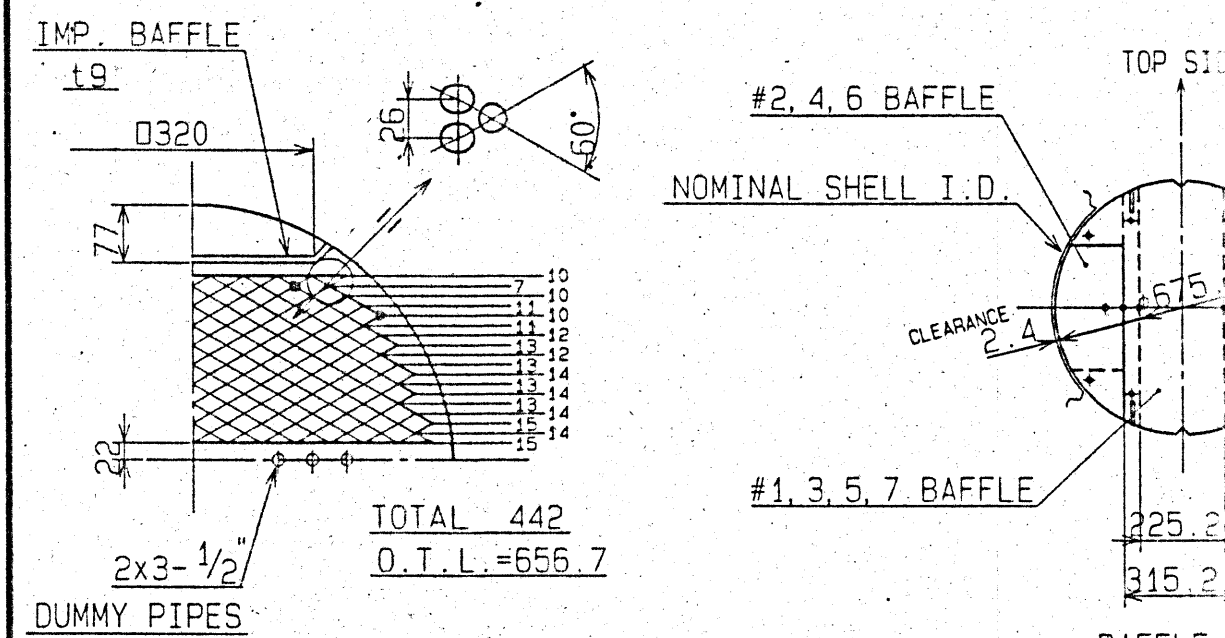
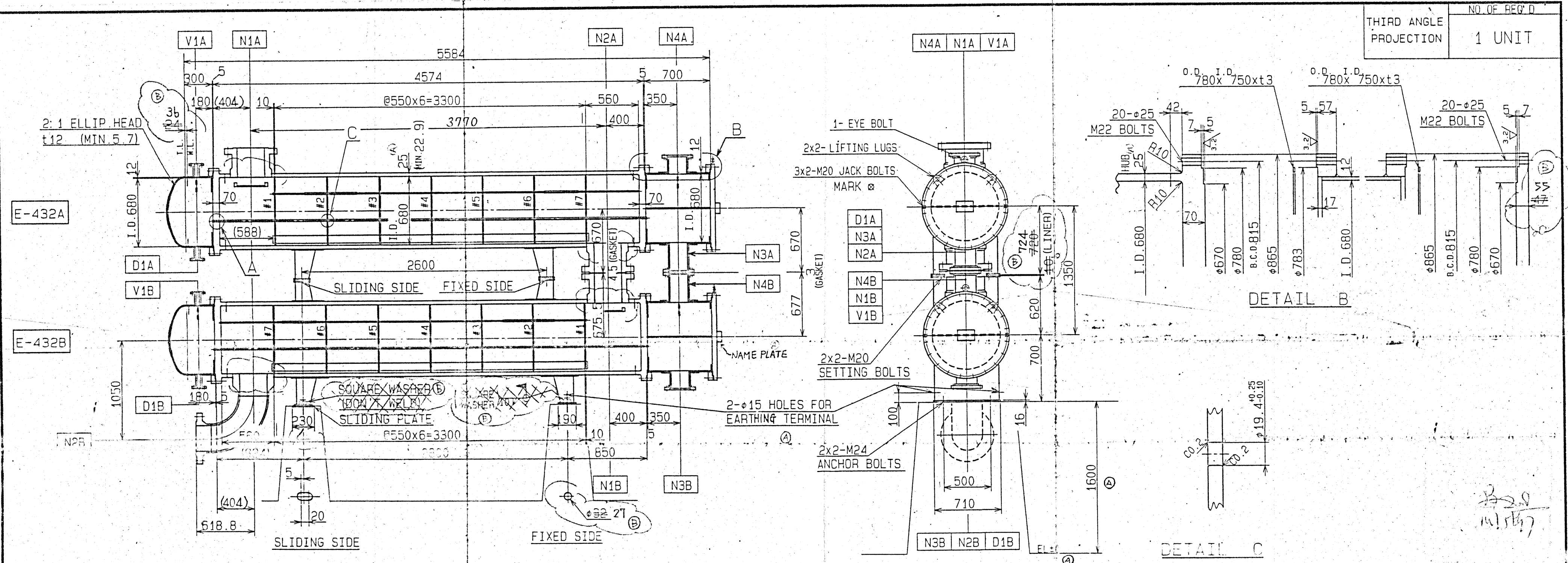
MITSUBISHI HEAVY INDUSTRIES, LTD. HIROSHIMA MACHINERY WORKS

公船技 171号 (2)
A CHANGED TO METRIC NOMINAL SIZE

A CHANGED MATERIAL FROM ASME TO ASTM

APPROVED	CHECKED	DRAWN

整理番号
22



E-432B

V1B	1	40	160	ANSI150LWN	RF	VENT	510
D1B	1	40	160	ANSI150LWN	"	DRAIN	510
N4B	1	200	80	ANSI150 SO	"	C.W. OUTLET	SEE DWG.
N3B	1	200	80	ANSI150 SO	"	C.W. INLET	560
N2B	1	300	80	ANSI1600 WN	"	GAS OUTLET	SEE DWG.
N1B	1	300	80	ANSI1600 WN	RF	GAS INLET	SEE DWG.

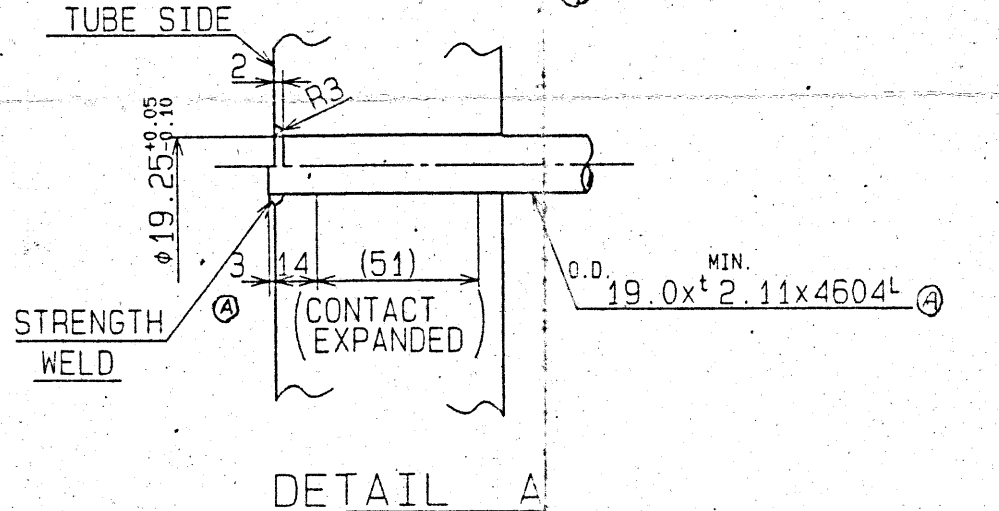
E-432A

V1A	1	40	160	ANSI150LWN	RF	VENT	510
D1A	1	40	160	ANSI150LWN	"	DRAIN	510
N4A	1	200	80	ANSI150 SO	"	C.W. OUTLET	560
N3A	1	200	80	ANSI150 SO	"	C.W. INLET	SEE DWG.
N2A	1	300	80	ANSI1600LWN	"	GAS OUTLET	SEE DWG.
N1A	1	300	80	ANSI1600LWN	RF	GAS INLET	670

MARK NO. SIZE Sch No. RATING FACING SERVICE C TO FACE

MATERIAL SPECIFICATION

17	GASKETS (CHANNEL SIDE)	COMP. ASBESTOS	V4500 or EQ.
16	GASKETS (SHELL SIDE)	SPITAL INK	V4500 or EQ.
15	NUTS	A194-2H	
14	BOLTS	A193C-87	
13	SPACERS	A536-2 OR EQ. (F)	
12	TIE RODS	A36 OR EQ.	
11	BAFFLES	A2836C OR EQ.	
10	CHANNEL NOZZLE FLANGES	A105	
9	CHANNEL NOZZLE NECKS	A1056C A105	
8	STUB NOZZLES	A105, A234WPB	
7	TUBES	A179	
6	TUBESHEET	A266C-4	
5	CHANNEL COVER	A516-70	
4	CHANNEL HEAD	A266C-4	
3	CHANNEL FLANGE	A266C-4	
2	CHANNEL SHELL	A266C-4	
1	SHELL	A516-70	



DESIGN DATA

FABRICATION WEIGHT	137500	Kg/UNIT	E432B	SHELL 45°C	TUBE 34°C
OPERATION WEIGHT	157500	Kg/UNIT	E432A	SHELL 70°C	TUBE 43°C
FULL WATER WEIGHT	177500	Kg/UNIT	METAL TEMP. FOR THERMAL EXPANSION		
MIN. METAL TEMP.	5	°C			
INSULATION	NO				
PAINTING	YES				
NO. OF PASSES	1				
CORROSION ALLOWANCE	3.2 mm				
JOINT EFFICIENCY	100	%			
RADIOGRAPHING	FULL				
POSTWELD HEAT TREATMENT	YES				
PNEUM'C TEST PRESS.	YES				
HYDRO'C TEST PRESS.	112.5 kgf/cm²				
OPERATING TEMP.	88.6/38	°C			
OPERATING PRESS.	62.72 kgf/cm²				
DESIGN TEMP.	150	°C			
DESIGN PRESS.	68 kgf/cm²				
FLUID	SYN. GAS				
SHELL SIDE	COOLING WATER				
TUBE SIDE	COOLING WATER				
SURFACE AREA	234	m²/UNIT			
CODE	ASME SECT. VIII				

FACT, Udyogamandal, India
900 MTPD Replacement Ammonia Project
Prepared for HALDOR TOPSOE A/S
HTAS Job No. 28525
HTAS PO No. 28526/3020/01-102/002/1002
Vendor's ref. No. 353301/002000
Item No. K431 & TK431
Item description: SYNTHESIS GAS/RECIRCULATION COMPRESSOR & STEAM TURBINE

ACM-2-1093

REVISIONS

No.	DATE	DESCRIPTION	BY	CHK'D	APP'D
1	1995.2.10	AS MARKED			

REFERENCES

HTAS	5
HTAS	3
HTAS	3
HTAS	1
HTAS	1
HTAS	1
HTAS	1
HTAS	1
HTAS	1
HTAS	1

CUSTOMER TOPSOE/FACT, INDIA

PROJECT NAME 900MT/D REPLACEMENT AMMONIA PROJECT

CHIEF N. Ohuchida

HEAD K. Takijiri

CHECKED BY M. Yamamoto

DRAWN BY

DWN. DATE 1995.2.10

SCALE 1/30

DWG. NO. 433-21756

REV. (B)

COPY FOR 5453

Annexure C

Consumable Detail Form for Covered Electrodes/ Bare Solid Electrodes and Rods					
	SMAW			GTAW	
	Carbon Steel	Low-Alloy Steel	Stainless Steel	Carbon Steel	Stainless Steel
I. General					
A. Quantity	CTS	CTS	CTS	CTS	CTS
B. AWS Specification	A5.1	A5.5	A5.4	A5.18	A5.9
C. AWS Classification	*	*	*	*	*
D. Supplemental Designation if required	*	*	*	*	*
E. Diameter	*	*	*	*	*
F. Length	*	*	*	*	*
II. Certification and Testing as per AWS A5.01					
A. Lot Classification	C1	C1	C1	S1	S1
B. Level of Testing	Sch 1 or F	Sch 1 or F	Sch 1 or F	Sch 1 or F	Sch 1 or F

CTS - Contractor to specify

AWS – American Welding Society

* - As per the direction of the Engineer in Charge

Note:

1. The ASME equivalents of AWS A5.1, A5.4, A5.5, A5.9 and A5.18 are ASME SFA-5.1, SFA-5.4, SFA-5.5, SFA-5.9 and SFA-5.18, respectively.

FERTILISERS AND CHEMICALS TRAVANCORE LIMITED (FACT)

VENDOR DATA FORM (FOR FACT NEW VENDORS)

Sl. No.	Description	To be filled in by Vendor
	Company Profile	
1	Name of Vendor	
2	Name and address of Chief Executive	
3	Address:	a: Regd. Office
		b: Factory
4	PIN Code	
5	Telephone Nos	
6	Tele Tax Nos	
7	E mail ID	
8	Contact Person	
9	Details of Local Office/ Representatives/ Liaison Agents	
10	PAN No	
11	GST Registration No.	
12	Bank Details (Payment will be made through RTGS. Please Upload the Format verified by Bank along with a cancelled Cheque)	

(New Vendors please return this format duly filled along with Part-I: Technical Bid of the offer)

Master Data required for Online Payments
(RTGS / NEFT / Fund Transfer)

To,

The Deputy General Manager (Finance)
The Fertilizers and Chemicals Travancore LTD
Udyogamandal
Kerala

1	Vendor Code, Vender Name	To be filled by FACT
2	Income Tax PAN No	
3	Name of the Bank	
4	Address of bank branch	
5	City & State	
6	IFS Code of the bank branch	
7	Name of the bank branch	
8	Bank Account No.	
9	Account Holder's Name	
10	Email address	

For Name

Signature & Seal

Verification by the Bank

We hereby certify that all the above particulars relating to Bank Account are verified and found to be correct as per the records of the bank.

Signature and Seal of the Authorized signatory of the bank.