



**MAHADHAN  
AGRITECH  
LIMITED**

(Formerly known as Smartchem Technologies Limited)  
100% subsidiary of DFPCL

## **MAHADHAN AGRITECH LTD (MAL)**

**(100% Subsidiary of Deepak Fertilisers & Petrochemicals Corporation Limited)**

Registered office at: - Sai Hira, Survey no. 93, Mundhwa, Pune – 411036, Maharashtra, India.

Plant at MAL Unit- Plot K1 & K-8, Talaja MIDC Industrial Area, Raigad, Maharashtra, India-410208

**Subject: - Value based Tender for Annual Rate Contract to Provide Mechanical Fabrication & Maintenance Services at Mahadhan Agritech Limited (MAL/Company) Talaja K8 Plant.**

**Tender Ref : MAL( K-8) /MECH/02/ 2023-24 Date: 10.04.2024**

Sealed Technical bids are invited from professionally competent service providers of Mechanical Fabrication & Maintenance Services in Sealed Envelope with EMD. The sealed envelope shall be super scribed with Tender Reference Number, Name of Work & content in it and addressed to Mr. Swapneel Attarde or Mr. Yuvaraj Naik, At **Mahadhan Agritech Limited** at Plot K8 MIDC Industrial Area, Talaja, 410 208, Dist.: Raigad, Maharashtra, India

### **Stage I Bidding**

- **Sealed Envelope- I:** - Technical Bid- General Terms and Conditions, Commercial Terms and Conditions, Special Conditions and Scope of work (Excluding price Bid)
- **Sealed Envelope- II:** - Earnest Money Deposit (EMD) for Amount Rs.1,00,000 (Rs. One Lac only) per unit & Price Bid (Please be guided with Annexure-I)
- The Scope of work for each activity mentioned in annexure of this tender (Excel Sheet -Annexure A)
- You will submit the closed technical bid in hard copy and in 2 envelop system by hand or through courier to MAL latest by 25.04.2024.
- The commercial price bid will be invited from technically qualified Tenderers.

Exceptions and deviations, which tendered may desire to stipulate. (Tenderers are advised to submit the Tender strictly on the terms and conditions of the contract and specifications contained in the Tender documents and not to stipulate any deviations. However, if deviations become unavoidable, then it may be stipulated. The Company MAL reserves the right to reject such deviations or evaluate the Tenderers containing deviations having financial implication, by adding the cost for such deviations as may be determined by the Company MAL).

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## **Stage II Bidding**

**Submission & opening of the Bid:** The Bidders shall submit the duly filled in all the bid documents (Stage I- Two Envelope system) signing on each page along with requisite document as mentioned in pre-qualification criteria and EMD & every component by the authorized signatory in Purchase Department of the Company **latest by 25.04.2024 up to 15.00 PM.**

All the above documents should be hand delivered or Couriered to the following address.

Mr Swapneel Attarde or Mr. Yuvaraj Naik (Representative of MAL)

### **Mahadhan Agritech LTD**

Unit- Plot K-7 & K-8, Taloja MIDC Industrial Area,

Raigad, Maharashtra, India-410208

Phone: 022-5044 3017 and 022-5044 3019

The Stage I Bid documents shall be opened within a week from the last date of submission tenders.

During Commercial Price Bid (Technically qualified Tenderers) need to quote for each activity as mentioned in Stage I excel sheet attachment Annexure C. We may reject the tender in case you do not quote for all items. As this is a volume contract, the contract will be awarded to two/three/four agencies. **MAL reserves the right to split contracts among many agencies at their sole discretion.**

### **E-Auction:**

After submission of Stage I bid documents and close price bid, the E auction will be conducted. The E auction will be governed by the Business Rules for online Auction as per enclosed pages in Stage I bidding. Only Technically acceptable Tenderers against the tender can only participate in further process. MAL's decision on technical evaluation shall be final and no correspondence shall be entertained in this regard. The Tenderers who do not fulfill all or any of the conditions laid down in the tender document are liable to be ignored at the sole discretion of MAL. MAL also reserves the right to reject any/all the offers without assigning any reason thereof.

**In case of any technical queries**, you may contact our Job Controller as below.

K8-MAL Unit – 1) Shri. **Sanjay Gawade ( Tel.022-27413024 ,Mob. 7738673400)**

### **For commercial queries you may contact**

Mr Swapneel Attarde Tel No: - 022 5044 3017 (Mob.9833004627)

Mr. Yuvaraj Naik Tel No: - 022-5044 3019 (Mob.7892776483)

Thanking you,

**For Mahadhan Agritech Limited**

Srungavarapu Srinivas Rao

Senior General Manager-Sourcing & Supply Chain (Materials)- Corp Sourcing.

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**The following are Pre-qualification criteria to be submitted along with Stage I Tender document.**

- [a] Annual Turnover of minimum Rs 1 Crores including group companies.
- [b] Only professionally competent contractors should participate in the Tender.
- [c] The net-worth of the bidder should be positive during the preceding financial year.
- [d] Compliances of statutory requirement like registration under ESIC Act, PF Act, GST and other statutory compliance to operate/ do business in India.
- [e] Minimum 3 to 5 years of experience in Similar field and details of similar ongoing works including group companies.
- [f] List of clients of the Company/Firms.
- [g] Details of manpower owned technical, and staff submitted along with the tender.
- [h] List of requisite tools & tackles, equipment. (Attested Copy to be enclosed).
- [i] The contractor should not have any record of being de-barred or blacklisted by any State / Central Govt. Dept. / any public / private organization. Compliances with the provisions all the personnel related statutes (and the corresponding rules framed under these various statutes) as may be applicable including, but not limited to statutory compliance like registration under ESIC Act, PF Act, Contract Labour Regulation and Abolition) Act, 1970, GST and other statutory compliances to operate / do business in India. The tenderer should carefully go through the Safety related rules as applicable in MAL (Refer Annexure II) and the statutory regulations (refer Annexure III) to be strictly followed.
- [j] Should be able to handle any local matters.
- [k] If the contractor is MSME then should have a valid MSME registration and a copy of the same should be enclosed along with the tender document at the time of submission.
- [l] Organization Structure of the contractor.

The tendered must provide the supporting documents for above mentioned prequalification criteria.

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**ANNEXURE I**  
**GENERAL TERMS AND CONDITIONS**

1. Earnest Money Deposit of Rs.1,00,000/- (Rs. One Lac only) in the form of Bank demand draft (drawn on public sector bank or reputed private bank only) will have to be submitted in favour of Mahadhan Agritech Limited payable at Mumbai along with tender document. Tenders received without EMD will be disqualified.
2. All pages of the tender form and questionnaire must be signed and sealed by Tenderers.
3. Tenderers have to submit details along with documentary evidence for the following:
  - a) Registration/ incorporation certificate as Proprietary/ Partnership Firm/ Private Ltd or Public Ltd Company/ LLP.
  - b) Registration certificate with PF organization for allotment of PF code number.
  - c) Registration certificate with Goods and Service Tax (GST).
  - d) Allotment letter under ESIC Act
  - e) Registration certificate under Maharashtra Labor Welfare Board.
  - f) Registration certificate for professional Tax.
  - g) Registration certificate with Income Tax Dept for allotment of permanent income tax code number.
  - h) Tenderers are advised to submit their bids strictly on the terms and conditions of the bid. document and not to stipulate any deviation.
  - i) ISO Certification holder: Name of certification: -----Validity: -----(Attested Copy to be enclosed)
  - j) Organization Chart: Executive -----, Technical Staff----- (Attested Copy to be Enclosed giving the details)
  - k) List of requisite machinery, tools & tackles, equipment. (Attested Copy to be enclosed)
  - l] Audited annual Turnover: for last three Financial Years.
  - m] List of similar jobs carried out in another company.
  - n] Client List.
  - o] MSME certificate if applicable.

**Special Note: The contractors/Tenderer's who are registered with MAL need not to submit the documents mentioned above.**

4. MAL reserves the right to accept or reject any or all tenders at its sole discretion without assigning any reason.
5. Late tender will not be accepted / received.
6. Canvassing in any connection with the tender in any form is strictly prohibited. Tenders submitted by the party who resort to canvassing will be liable for rejection and forfeiture of EMD.
7. In case of any unscheduled holiday falling on the prescribed closing or opening day of the tender, the next working day will be treated as scheduled for the opening or closing day of the tender as the case may be. The Final concluding bid shall be valid for 6 months from date of auction and if any new requirement is received shall be catered at same auction price.
8. The bidders are advised to read carefully all the terms and conditions of the tender document which will form part of the contract.

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9. If the Tenderers give wrong information deliberately to create conditions for acceptance of the tender, the MAL reserves the right to reject such tenders without assigning any reason.

10. Not more than one tender will be submitted by one Tenderer for the same work.

### **1.0 INSTRUCTIONS FOR SUBMISSION OF TENDER:**

1) The Tenderers are advised to visit the site of work to acquaint themselves as to the nature and location of the work, access to the site, the general & local conditions, particularly those bearing upon transportation, disposal, handling and storage of materials, availability of labour, water, electric power, physical conditions etc. and shall be included on such account while quoting for the tender.

2) Tenderers shall quote the tender in the prescribed format of the tender document. Tenders should be free from overwriting. All corrections should be duly attested by the Tenderer. Tenders should be signed & stamped by person/s that are legally authorized to sign on behalf of the person or firm or company tendering and in case of firm / company tender should bear its seal or stamp.

3) Tender format should contain columns for amount in Rupees (if any),

4) The Tenderers shall not stipulate any additional conditions. Any tender containing such conditions will be summarily rejected. Canvassing in connection with tenders is strictly prohibited. Tenders submitted by the Tenderers, who resort to canvassing, will be rejected outright.

5) The work may be split up between two or more Contractors or accepted in part and not in entirety, if considered expedient at the sole discretion of MAL Management.

6) Submission of a tender will be conclusive evidence to the fact that the Tenderer has fully satisfied himself as to the nature and scope of work to be done, procedures for issue or materials, conditions of contract, local precautions to be ensured, security rules to be followed and all other factors affecting the performance of the contract and the cost thereof.

7) It will be obligatory on the part of Tenderer to sign the documents for all the component parts on each and every page.

8) No Bidder is allowed to bid below the current minimum wages applicable.

### **2.0 AMENDMENT TO NIT (Notice Inviting Tender):**

At any time prior to the deadline for submission of bids, MAL or its nominee or its consultants may for any reason, whether at its own initiative or otherwise or in response to any clarification requested by a prospective Bidder, modify the NIT by amendment. The amendment will be notified in writing to all prospective Bidders who have received the NIT and the amendment will be binding on them. In order to afford prospective Bidders reasonable time to take the amendment into account in preparing their tenders, extension of time as may be reasonable, will be given for submission of tenders.

### **3.0 SUBMISSION OF TENDERS:**

The Bidder shall bear all costs associated with the preparation and submission of the Bid and neither the company nor its nominee nor its consultants will be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. Any clarification required by prospective bidder shall be furnished in writing soon after its

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receipt to ensure submission of bid on or before bid closing date. A metric measurement system shall be applied, wherever it is applicable.

#### **4.0 EARNEST MONEY DEPOSIT (EMD)**

The amount of earnest Money shall be deposited in the form of bank demand draft drawn on reputed public sector bank or reputed private bank only). **The EMD should be in the name of M/s. Mahadhan Agritech Limited.** payable at Panveli. The EMD will be forfeited in the event of the Contractor/Tenderer failing to commence work within the 30 days period. The Earnest money deposited [E.M.D.] by the successful Tenderer's shall be Returned to the bidder after the commencement of the work and on receipt of bank guarantee towards security deposit (if applicable). The tenders without E.M.D. shall be liable for rejection. If for any reason the bidder withdraws his bid at any time prior to expiry of the validity period or refuses to execute the work after issue of the letter of intent/Work Order, the amount of Earnest Money is liable to be forfeited. Earnest Money Deposit will not carry interest. E.M.D. of the unsuccessful participating bidders will be refunded within one month.

#### **5.0 RIGHT OF ACCEPTANCE & REJECTION OF TENDER:**

MAL reserves the right to accept at their sole discretion any tender in whole or part or split the work among two or more Contractor/Tenderers or reject any or all Bids without assigning any reason thereof. No claim for compensation etc. whatsoever will be entertained by MAL. If a Contractor/Tenderer whose past performance has not been found satisfactory in the opinion of MAL, then MAL reserves the right to refuse the tender documents or reject the tender while opening or evaluating the tenders. The decision of MAL regarding performance evaluation shall be final & binding on the Contractor/Tenderers. MAL shall not have any liability to Tenderers for any interruption or delay in access to the site irrespective of the cause.

#### **6.0 VALIDITY OF BIDS:**

Bids shall be valid for at least 90 days after the date of price bid opening prescribed by the MAL. A bid valid for a shorter period may be rejected at the discretion of MAL. In exceptional circumstances, MAL may solicit the bidder's consent to an extension of the period of validity. The request and responses thereto shall be made in writing. The bids shall be suitably extended where it is necessary at the request of MAL. Where the bidder is unwillingly to extend the validity period, his bid shall be deemed to be invalid and the EMD would be returned to the bidder. No bidder shall be permitted to modify his bid after commercial bids have been opened unless asked by MAL due to change in specifications / scope or otherwise. The Final concluding bid shall be valid for 6 months from date of auction and if any new requirement is received shall be catered at same auction price.

**MAL's decision for award of contract shall be final and binding on all the tenderers.**

#### **7.0 PROCEDURE FOR AUCTIONING**

**7.1 [a] Auction:** MAL will declare its **Opening Price (OP)**, which shall be displayed to all Tenderers during the start of the Auction. The Tenderer will be required to start bidding after the announcement of Opening Price and decrement amount. Opening Price displayed on screen is evaluated price to MAL for all the items mentioned in price bid. The first online bid and the subsequent bids received in the system during the event shall be less than the Auction's opening bid price by one decrement or multiples of decrement.

**[b] Auction** shall be for a period of 30 minutes or as per MAL requirement. If a Tenderer places a bid in the last **2 minutes** of closing of the Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another **2 minutes**, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. The auto-extension will take place only if a bid is received & accepted in those last **2 minutes**. If the bid does not get accepted, the auto-extension will not take place. In case there is no bid in the last **2 minutes** of closing of Auction, the auction shall get closed automatically without any extension. However, Tenderers are advised not to

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wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

**[c]** After the completion of Auction, the **Closing / Final Price (CP)** shall be available on auction screen.

7.2. During Auction, if no bid is received within the specified time, MAL, at its sole discretion, may decide to reschedule / scrap the Auction process / proceed with conventional mode of tendering / or finalize the tender based on Prices Bid submitted in the envelope.

7.3. Placement of order on the conclusion of Auction shall be at the discretion of MAL. Bids once made by Tenderer cannot be cancelled, or withdrawn. If the bidder withdraws the bid, then the EMD of the bidder will be forfeited.

7.4. It shall be the prerogative of MAL to offer the Final / Closing Price of Auction to the other bidders for matching in case MAL decides to have more than one supplier.

7.5. The Tenderer shall be assigned a **Unique Username & Password** by MAL's. The Tenderer is advised to change the Password and edit the information in the Registration Page after the receipt of initial Password from MAL. To ensure confidentiality. All bids made from the Login ID given to Tenderer will be deemed to have been made by them.

7.6. The Tenderer will be able to view the following on screen along with the necessary fields in the Reverse Auction:  
\_ Leading Bid in the Auction (Current Lowest Rate)  
\_ Opening Price & Decrement Value.

7.7. MAL decision for award of Contract shall be final and binding on all the Tenderers.

7.8. MAL shall not have any liability to Tenderers for any interruption or delay in access to the site irrespective of the cause.

**8.0. SUBMISSION OF TENDERS:**

The Bidder shall bear all costs associated with the preparation and submission of the Bid and neither the company nor its nominee nor its consultants will be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. Any clarification required by prospective bidder shall be furnished in writing soon after its receipt so as to ensure submission of bid on or before bid closing date. A metric measurement system shall be applied, wherever it is applicable.

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## ANNEXURE II

### Special Terms and Conditions

#### SAFETY ASPECTS:

1.01 Tenderer/ Contractor to provide safety appliances like dust masks, ear plugs, Full body harness, ladder, safety shoes, helmet, hand gloves, safety goggles, PPE, rain gears, Boiler suit/overall made up from cotton cloths etc. to their personnel working inside the Complex at his cost and should adhere to safety codes as given in General Conditions of the contract.

ISI mark yellow helmet to be provided of Udyogi or any standard company.

ISI marked safety shoes to be provided of Bata make or any standard Company.

ISI marked antifog goggles to be provided of any standard company.

If any deviation noticed, then the company will provide the helmet and safety shoes and will deduct the landing cost at actual incurred by company. After repetitive incidents of violation of safety PPES by Tenderer, serious penalty amount will be deducted from Tenderer's invoice as per safety requirement.

a) Penalty for violation of Safety norms: Rs 500/- for first instance per person, in multiple for next similar violations.

b) The manpower shall be confirmed physically fit by Factory Medical Officer to carry out assigned job at MAL work site. Tenderer/ Contractor must report with manpower to factory medical officer on very first day of his contract or his worker's first day of duty.

c) No young and Minor Child labour shall be allowed to enter and work at the site of MAL.

d) The Tenderer/ Contractor shall ensure the safety training of their workman prior to start of the assignment/ job with the help of MAL Supervisor and Safety Officer.

e) Electrical hand tools, welding machines deployed for the job shall be confirmed for the provision of ELCB proper earthing. The same shall be inspected by MAL Safety Officer and Electrical department.

f) Tenderer/ Contractor shall deploy Safety Supervisor for the manpower condition more than of 20 CL & 30 CL.

g) Tenderer/ Contractor shall prepare Job Safety Analysis for daily activities and will get endorsed from MAL Maintenance In charge. Hazard Identification and Risk assessment shall be done for each activity and accordingly Risk control measures shall be taken to control every risk. Every contract workman at site will be using Safety Helmet, Boiler suit and safety shoes compulsorily. Ear, Eye, Nose and Hand as well as body protection equipment will be used from time to time to protect the body from each activity.

h) Safety Work Permit system to be followed while performing any job. will be issued by Tenderer/ Contract Safety Officer, will perform inspections/checks that all jobs for safety procedures to be followed.

i) Safety Training, First Aid Training, shall be given to all workers on the first day and for five minutes every day at the start of the day.

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- j) No person shall work under the control of liquor, Chewing of Tobacco or smoking is strictly prohibited on site.
- k) Housekeeping on site is the essence of the contract. The site will be cleaned at the start and end of the work every day by the Contractor/Tenderer.
- l) Every electrical supply shall be taken through closed socket and ELCB, every electrical hand tool will have proper earthing arrangement. All electrical required to check from MAL electrical dept. And put equipment inspection tag required before put in use.
- m) All workers shall be provided with written and understandable Information about their employment conditions in respect to safety & wages before they enter employment and about the particulars of their wages for the pay period concerned each time that they are paid and deduction of fines for non-compliance of safety standards if any.
- n) There should be no discrimination in hiring, training, compensation, access to training, promotion, termination or retirement based on race, caste, national origin, religion, age, disability, gender, marital status, sexual orientation, union membership or political affiliation.
- o) Non-compliance of safety guidelines will be considered as default and may invite penalty upon the Contractor.

**1.02. Safety Training**

- 1) Tenderer/ Contractor has to deploy experienced trained and skilled manpower for the job assigned.
- 2) Safety training will be given by MAL Safety officer to all manpower reported on duty. Tenderer/ Contractor's Safety Supervisor shall prepare job safety analysis with the help of the Maintenance Officer for the job to be carried out and the procedure which is going to be used for the job. On the basis of the agreed procedure safety training will be given and the adequacy of safety PPE's will be checked by the Safety Officer.
- 3) Safety training certificates will be issued to all Tenderer's/ Contractors' workers. Every Contractor/Tenderer's worker will maintain a safety certificate copy with him for the period of work inside the factory/ work site of MAL. The certificate will be valid for a period of six months from the date of issue. After the validity, Tenderer/ Contractor and contract worker has to revalidate the certificate by acquiring additional certificate training from the Company.
- 4) Worker shall be aware of First Aid and using First Aid equipment and emergency procedures and assembly point at site.
- 5) Falsification or tampering of records, including safety certificates, attendance records, academic credentials, etc., will be considered as default and may invite penalty upon the Contractor.

**1.03. Accidental Reporting**

- 1) Safety of the worker/s is the essence of the contract.
- 2) Any unsafe condition noticed by the Tenderer/ Contractor/Contract worker shall be notified to the MAL Supervisor and Safety Officer on duty.

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3) Any near miss, minor injury, First Aid or major injury shall be reported to OHC & Safety Officer in writing by the Tenderer/ Contractor within 4 hours, with cause of the incident.

4) First Aid treatment shall be made available at OHC. Any more treatment advised by OHC /Factory medical officer shall be made available by Tenderer/ Contractor at ESIC recognized hospital/specialized hospital. It is sole responsibility of the Tenderer/ Contractor to make available in time the best treatment to its worker at his cost/insurance. MAL shall not be responsible for the same.

#### **1.04 Safety Performance**

1) Every contract shall be vetted for safety performance of previous contract and experience

2) Safety training to workers, proactive performance, availability of safety appliances, Attitude towards safety implementation, rewards to the worker/s will be evaluation parameters.

#### **2. Labor law and Safety codes:**

All the matters concerned with labour management shall be as per the prevailing Labor laws. Tenderer/ Contractor will obtain labour license/s on arrival at site before commencement of the job. The first RA bill shall be released only on submission of the copy of labour license duly attested by MAL Administration in the prescribed format. If labour license is not applicable, the Tenderer/ Contractor shall obtain confirmation to this effect from MAL Administration.

Tenderer/ Contractor will comply with all labour and other statutory laws applicable from time to time. All labour laws, such as Contract Labour (Regulation and Abolition) Act 1970 with Maharashtra and Central Rules, Employees State Insurance Act with Rules & Regulations, The Maharashtra Workmen's Minimum House Rent Allowance Act, 1983 with Rules 1990, The Payment of Bonus Act, 1965 with Rules 1975, Factories Act with Mah. Rules, The Digital Personal Data Protection Act, 2023, The Employees Provident Funds and Miscellaneous Provisions Act, 1952, Minimum Wages Act 1948, Payment of Wages Act 1936, Maharashtra Labor Welfare Act, etc. and such other acts which are in force, or which may come in force during the subsisting of the contract, should be adhered to by the Tenderer/ Contractor and such other rules/ regulations/ laws made applicable from time to time.

The Tenderer/ Contractor agrees to procure and maintain, at its own cost, insurance policy enough to insure against all liability, claims, demands, and other obligations assumed by the Contractor. Such insurance shall be in addition to any other insurance requirements imposed by this contract or by law.

The Tenderer/ Contractor shall be solely responsible for its employees. And always keep the MAL Indemnified from all losses, actions, penalties etc. arising out of this Tender/ Contract.

The Tenderer/ Contractor shall be responsible for all acts of its personnel and representatives, directly or indirectly rendering services in relation to or connected with job entrusted and to comply with all applicable labor laws.

#### **2.01 Deployment of Medically Fit Manpower:**

For the due execution of this Contract, the Tenderer/ Contractor shall deploy workers/supervisors who are always physically and mentally fit and are not disabled/handicapped and do not suffer from any chronic or contagious disease. It shall be the responsibility of the Tenderer/ Contractor to ensure that its Workers/Supervisors employed are medically fit. The Tenderer/ Contractor shall give a written declaration as regards the fitness of the Workers/Supervisors employed at the time of applying for the Gate Pass. If any employee employed by the

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Tenderer/ Contractor becomes or is declared medically unfit after the issuance of the Gate Pass, the MAL shall revoke the Gate Pass.

Failure to comply with this stipulation shall entail penalty as may be decided by the management apart from refusing entry to such Workers/Supervisors of the contractor. The decision of the MAL's Medical Officer in this regard shall be final.

**2.02 MEDICAL EXAMINATION:**

Tenderer/ Contractor should ensure that all its Workers/Supervisors deployed at MAL sites undergo pre-employment fitness examination. The form No.33 (Prescribed under Rule 68T & 102) should be filled in for all its Workers/Supervisors deployed and should be submitted by Him/her to the user department.

Contract Workers/Supervisors completing 12 months shall undergo annual medical examination. Such examination must include the following tests: -

- 1) Complete Physical Examination. This will be done at MAL OHC.
- 2) X-Ray chest PA view (Once in Pre-employment then once every three years)
- 3) Complete haemogram (T&D, Hb at minimum)
- 4) One urine examination using Multistix.

All entries pertaining to the periodical examination must be made and maintained in form 32 (Bounded register) prescribed under Rule 68 T & 102.

Form No.32 must be maintained in bounded register & should be submitted to the OCCUPATIONAL HEALTH CENTER for records annually.

Each Personnel should use required Personal Protective Equipment's (PPE)as per Job (Minimum: Safety Shoes, Canvas Gloves, Welding Face shield attached with helmet safety goggles) For a work at height each person should use individual safety helmets with two lifelines (in good conditions).

Failure or negligence on part of Contractor in following these health and safety rules shall invite penalty as may be decided by the management and/or as described herein below.

Falsification or tampering of medical records will be considered as default and may invite penalty upon the Contractor.

**2.03 Safety Organization of Tenderer:**

The Contractor/Tenderer shall be fully responsible for supervision of its personnel to ensure that they strictly adhere to all applicable safety fire requirements.

The Contractor/Tenderer shall appoint one of its personnel on the work site as a Safety officer with the approval from the plant. Contractor/Tenderer shall employ skilled, experienced, trained, and dedicated safety personnel as per below details:

Safety officer deployment as per term of contract – 01 against 20 CL

If 101 and more employees – Additional safety officers/100 employees

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Ensuring barricading in the area while work is in progress by Contractor/Tenderer.

Proper segregation of the insulation/ waste/ not required material and timely disposal

If Space/shed provided to Contractor/Tenderer – Prime responsibility and accountability of Contractor/Tenderer to ensure it neat and tidy and no unsafe conditions at any time.

Quality PPEs provision – ISI - marked safety Shoes, ISI - marked Yellow Safety Helmets, EN166 marked Safety Goggles, ISI marked dust masks, ISI marked Safety harness with double lifeline and with shock absorber, Coveralls.

BIS certified – Yellow color safety helmets with Test certificate worn by Contractor/Tenderers /contract workmen.

Contract safety officer shall conduct training for all contract employees as per guideline given by MAL safety dept. The Contractor/Tenderer's owner / line manager in charge on site shall be responsible for formation of the organization and coordination the Contractor/Tenderer's Safety activities. This organization shall take responsibility for all safety related activities with respect to their jobs.

#### **2.04 Recruitment, Training of Contractor/Tenderer's Personnel: -**

The Contractor/Tenderer shall at his own expense ensure that all its personnel and sub-contractor's personnel have been given the necessary safety, job-related training required by MAL regulations and will provide proof to the effect. The Contractor worker/Tenderer's personnel shall participate in any additional training, which may be provided by MAL. Access to work site by the Contractor/Tenderer's personnel shall be denied if not complying with the rules and regulations at site.

#### **2.05 Minimum Entry qualification for contract Personnel:**

The contractor/Tenderer shall employ only those personnel who are trained in their trade or otherwise having sufficient working experience to ensure their and others safety while on the work. Contractor/Tenderer shall employ only those personnel who at least can speak & read Marathi, Hindi or English. Contractor/Tenderer shall maintain up to date record of qualification and experience of his personnel and produce it to concerned MAL authorities in advance.

#### **2.06 Safety Meetings: -**

The Contractor/Tenderer shall be responsible for maintaining and enhancing the Safety awareness of the workmen working under him, including sub-contractor. The Contractor/Tenderer will inform the MAL safety manager of the time and place of safety meetings arranged by him. Copies of minutes / records of Contractor/Tenderer's safety committee meetings shall be sent to the MAL Safety Department. The Contractor/Tenderer and sub-contractor's personnel are to be encouraged to contribute actively to safety meetings and to identify S.H.E. topics for inclusion in the agenda for a safety meeting. Toolbox talk should be conducted before conducting any maintenance activity. Safety committee meetings conducted by MAL should be attended by a nominated representative of the Contractor/Tenderer and he shall ensure the communication of same for his employees. This scheme is applicable to all Contractor/Tenderers working in the complex.

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***The participating company's declaration:***

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***I/We confirm having accepted all the terms as mentioned above.***

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***(Company name, seal and signature of authorized person with Designation)***

## **2.07 First Aid and Industrial Injuries: -**

Tenderer shall maintain first aid facilities for his employees. All industrial injuries (minor & major) shall be reported promptly to Engineer-In-Charge, and a copy of Tenderers report covering each personnel injury requiring the attention of a physician shall be furnished to Company.

## **2.08 Health:-**

It is the responsibility of the Tenderer to provide hospitalization expenses, to carry the injured or sick personnel on duty to the designated hospital and to pay salary as per statutory requirements in case of absence from duty after suffering from occupational injury and to take post-hospitalization care with salary paid till the injured joins back duty / resigns / retires.

To provide documented proof for providing medical care / hospitalization, bearing hospital expenses, salary paid during and post hospitalization till complete recovery / not recovery - to Occupational Health Center

To provide Fitness certificate from the hospital at the time of joining duty after suffering from occupational injury while on duty - to Occupational Health Center

To provide Unfit certificate from the Hospital as the case may be – to Occupational Health Center

The Tenderer should provide the following details to Occupational Health Centre on the first day of beginning of contractual period.

Name with phone number/s of the manpower

Name of the close relative/s of the manpower with phone number/s

Residential address of the manpower

Name of the Registered / Tie-up Hospital with phone number and Doctor's name/s – wherein the manpower provided needs to be hospitalized if required.

## **2.09 Schedule of penalties for safety violations**

Use of PPE is mandatory, and non-compliance shall be viewed seriously. Punitive actions including financial penalty may be imposed for safety violations.

- 1            Type of violation-Supervisor found at site without having undergone safety induction training  
              First Time-Rs.50/- per employee  
              Repetitions-Rs.100/- Per employee  
              Frequent Safety violations-Rs.100/- Per employee
- 2            Type of violation-Employee found without using required safety equipment  
              First Time-Rs.50/- per employee  
              Repetitions-Rs.100/- Per employee  
              Frequent Safety violations-Rs.100/- Per employee + warning letter
- 3            Type of violation-Employee found without safety belt or without anchoring the safety line at  
              height  
              First Time-Rs.100/- per employee

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- Repetitions-Rs.200/- per employee
- Frequent Safety violations-Rs.200/- Per employee + warning letter
- 4 Type of violation-Using defective equipment (Tools & Tackles) at site having potential for accident/fire
- First Time-Rs.500/-each Observation
- Repetitions-Rs.1000/-each Observation
- Frequent Safety violations-Rs.2000/-each Observation + warning letter
- 5 Type of violation-Non-compliance of HSE&F procedures/standard practices
- First Time-Upto Rs.500/-
- Repetitions-Upto Rs.1000/-
- Frequent Safety violations-Review for de-listing
- 6 Type of violation-Carrying out job in an unsafe manner having potential for serious consequences e.g. fall accident, damage to property electrocution etc.
- First Time-Rs.1000/-each observation
- Repetitions-Rs.2000/-each observation
- Frequent Safety violations--Review for de-listing
- 7 Type of violation-Medical treatment injury
- First Time—Verbal Warning
- Repetitions-Warning letter
- Frequent Safety violations--Review for delisting
- 8 Type of violation-Lost time accident
- First Time-Warning letter
- Repetitions-Review for de-listing the contractor from approved list
- 9 Type of violation-Fatal Accident
- First Time-Review for de-listing the contractor from approved list.

## 2.10 UNIFORM:

The Contractor/Tenderer staff shall wear uniform as per work environment, After finalization-color code will be given to Contractor by user team for recognition of team in unit), Boiler suite (As per standard), Rainy wear (During monsoon) while working inside plant premises. They shall also wear badge/name plate/Printed name on Uniform while they are working at site. All labour laws/ regulations shall be strictly followed by Contractor/Tenderer as per central/state govt. directives. Before executing the contract agreement, Contractor/Tenderer will ensure with MAL P&A dept. that they are maintaining necessary records as required under labour laws.

Penalty for violation for Not wearing uniform/Boiler suit/Rainy Wear: Rs 500 for first instance per person, in multiple for next similar violations.

## 2.11 STATUTORY COMPLIANCE: -

Contractor/Tenderer will comply with all statutory regulations like payment as per minimum wages, bonus, labour welfare fund, leave wages, PF, ESIC, maintaining requisite record. Viz. various registers and submitting the same to the P&A department whenever asked for by MAL. In case of failure to comply with the regulations, appropriate deductions will be made from your bill, in addition to penalty deductions as agreed.

***The participating company's declaration:***

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**(A) Documents Required at the time of Issuance of Gate Passes:**

Whenever the Contractor/Tenderer applies for gate passes to his worker/s to enter into MAL premises, they have to apply on its letter head (Format with HR Department) along-with following documents. The application should be recommended by the authorized User Dept.

Copy of Work Order/LOI issued by MAL.

Copy of Temporary or Regular ESIC Card of each worker (under ESIC Act) or Employees Compensation Policy (If contract worker drawing wages more than Rs.21000/-, required authentic proof i.e. appointment letter or last month pays lip) or Group Personal Accident Policy along-with list of employees who is covered under the said GPA.

In case more than 49 persons are to be engaged, Contractor/Tenderer has to apply and obtain Labour License under Contract Labour (R&A) Act from the State Labour authorities.

Copy of Allotment letter under ESIC Act

Copy of Registration certificate with PF organization for allotment of PF code number along with PF annual return submitted with the concern PF Commissioner.

Copy of Registration certificate under Maharashtra Labor Welfare Board.

Copy of Registration certificate for professional Tax.

Copy of Register of workmen employed by Contractor/Tenderer (Form XIII) – Rule 74

Copy of Employment Card (Form XIV) - Rule 76

Copy of Application for employment, appointment letter issued by Contractor/Tenderer to his workers.

Copy of Insurance coverage covering MAL, as workplace, and for the number of persons to be deployed. The nature of work in the policy should be the same as per the work order issued by MAL.

Medical Examination and fitness reports in respect of all the contract labors from the designated/specified medical officers.

If the job is subcontracted then no objection certificate from Contract Cell, MAL regarding subcontracting the work, work order issued to subcontractor by the main Contractor/Tenderer and all the documents mentioned at Sr. No.1 to 12 are also required in respect of the subcontractor. However, the same will be with prior written consent of the MAL only.

UAN Number or any other government recognized ID (like-Aadhar card, PAN card, PRAN card) is mandatory for making gate pass.

**(B) Procedure to be followed by the Contractor/Tenderers during the work period.**

Documents / Registers / Challans to be maintained & photocopies of the same should be submitted to HR Department for verification on monthly basis on or before 28th of every month.

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- 1) Wage disbursement: Minimum wages as notified by State Govt. from time to time are required to be paid to the workers.
- 2) Monthly wage to all contract laborers as per their actual attendance to be paid on or before 7th Day of every month in presence of authorized person from MAL. Wage slips will be issued to all Contract Labors while disbursement of wages.
- 3) PF is required to be deducted in respect of all the contract labors and deposited with PF authorities by 21st Day of the month and receipt of the same to be submitted with MAL.
- 4) ESIC is required to be deducted in respect of all the contract labours and deposited with concern authorities by 21st day of the month and receipt of the same to be submitted with MAL.
- 5) Labour Welfare Fund is required to be deducted in respect of all the contract labours and deposited with concern authorities for the wages of June & December of every year within stipulated time and receipt of the same to be submitted with MAL.
- 6) Professional Tax is required to be deducted in respect of all the contract labours and deposited with concern authorities as per act and receipt of the same to be submitted with MAL.
- 7) Following records under Contract Labour (R&A) Act & other acts will also be verified by Contract Labour Cell:
  1. Wage Register in form XVII. (Under the C.L Act)
  2. Muster Roll in Form XVI (under the C.L Act)
  3. Register of deductions (under the C.L Act)
  4. Register of Overtime (under the C.L Act)
  5. Register of Fines (under the C.L Act)
  6. Register of advances (under the C.L Act)
  7. Bonus Register in Form C (under the Payment of Bonus Act)
  8. Leave register in Form 20 (under the Factories Act)
- 8) Copy of all the work orders (first two pages only applicable only if not submitted earlier) for which clearance certificate is sought.
- 9) Copy of Monthly Wage Register.
- 10) Copy of monthly PF challan along with receipted copy of monthly PF returns i.e. Form 12A, Form 5 and Form 10.
- 11) Site wise breakup of PF: If Contractor/Tenderer is working for various other companies then the site wise breakup of Monthly PF challan/returns.
- 12) Copy of Labour License (if not submitted earlier).
- 13) In case the work period is February/March, then the receipt of Annual PF return for that year is required.
- 14) Inspection report of PF and Labour authority.

Tenderer/ Contractor should ensure that he has complied all statutory compliances as per above said acts for that particular Month before raising wage bill. contractors has to pay Leave & Bonus in monthly components to the labor.

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***The participating company's declaration:***

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if it is found that it is not paid the dues while checking the compliance documents then proportionate amount will be kept on hold from your bills, and the same amount will be release on reimbursement bases.

MAL has the right to hold the bill for any particular month if the Tenderer/ Contractor has not complied with the mandatory statutory compliances. MAL Can levy Penalties for such repetitive Non-Compliance.

The Tenderer/ Contractor shall always keep MAL indemnified from any risk/ liability/ penalty/ cases arising from non-compliance of the same.

15) All workers shall be provided with written and understandable Information about their employment conditions in respect to safety & wages before they enter employment and about the particulars of their wages for the pay period concerned each time that they are paid and deduction of fines for non-compliance of safety standards if any.

16) There should be no discrimination in hiring, training, compensation, access to training, promotion, termination or retirement based on race, caste, national origin, religion, age, disability, gender, marital status, sexual orientation, union membership or political affiliation.

➤ **The below mentioned Statutory compliance must submit by vendors before 20th day of next month.**

Annexure-E

PF/ ECR challan copy

PF, ECR & Payment receipt

ESIC, ECR & payment receipt

PT challan copy

MLWF (in the month of June & Dec)

Levy payment proof [for Security vendor only]

Muster roll cum Wages register, including bonus and leave wages payment

In / out entry register maintained at entrance security gate

Register of deduction for damage & loss

Register of Over Time Register

Register of Fine

Register of Advances

Wage Slips

Proof of salary made through RTGS/Bank transfer/Cheque payment.

Bonus Register Form C, D & Leave Form 20 to provide annually.

➤ **MAL has CLMS System for registration of Vendors, below docs need to provide by Tenderer/ Contractor during working period & for his laborer.**

PF allotment letter

ESIC registration letter if wages are less than Rs.21000/-

Pan Card

GST Registration Certificate

MLWF registration certificate

Professional tax number

Copy of Work / Purchase Order

Owner Name and cell/Phone number

E.mail ID of vendor

Site In charge name and his cell number

Copy of labour license, if strength is more than 50 numbers

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**If wages are more than Rs.21000/** >Employees Compensation Policy or GPA policy with list of employees [Payslip or declaration regarding wages are more than Rs.21000/- are must to be provide by vendor for above mentioned policies]"

➤ **The below mentioned documents of workers are to be require for CLMS registration.**

1.E.pehchan card under ESIC or

2.Workman Compensation Policy or

Group Personal accident policy with list of employees Payslip or declaration regarding wages are more than Rs.21000/- are must to be provide by vendor for above mentioned sr.no.2."

Copy of aadhar card

Copy of PAN card

Copy of cheque leaf or bank pass book

UAN Number under PF Act

Cell Number of workers

**(C) HOUSEKEEPING:**

Tenderer/ Contractor shall do housekeeping and shall remove all unwanted materials from the work site immediately after completion of work. Housekeeping shall also be done in between the work to keep the work area clean & tidy. 25% of the bill's value will be deducted if housekeeping is not done properly.

**(D) ASSIGNMENT OR SUB-LETTING OF CONTRACT:**

The Tenderer/ Contractor shall not assign or sub-let the Contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the previous consent in writing of MAL. Any breach of this condition shall entitle MAL to take such steps as may be necessary and also terminate Contract. Such termination shall also render the Tenderer/ Contractor liable for payment to MAL in respect of any loss or damage arising or ensuing from such cancellation. The permitted subletting or work by the Tenderer/ Contractor shall not establish any contractual relationship between the sub-contractor and MAL and shall not release the Tenderer/ Contractor of any responsibility under the Contract.

**(E) CONTRACTOR/TENDERER TO BE LIABLE FOR ALL THE TAXES ETC:**

The Tenderer/ Contractor shall be liable to pay all the taxes payable as per the prevailing laws made applicable or might come in force from time to time by the concerned authority. MAL shall not be responsible for the same.

**(F) INDEMNITY:**

Without prejudice to any other provisions in these conditions, the Tenderer/ Contractor shall be bound to keep MAL, Its Directors or any representative employee agents, fully indemnified against any action, claim or proceedings under the provisions of any rules, regulations, byelaws, notifications, directions or order having the force of law.

The Tenderer/ Contractor in contravention of such provisions etc., for the infringement or violation thereof in the course of the execution or completion of the work under the Contract and if, as a result of any such action, claim or proceedings, the Tenderer/ Contractor or such representative of the Tenderer/ Contractor, as the case may be, adjudged to be liable to any penalties or to pay any penalties or to pay any compensation, such liability, the Tenderer/ Contractor and if, MAL has to take-over the liability, MAL shall deduct all amounts arising out of such liabilities from the Security Deposit or from the running account of the Tenderer/ Contractor or from any other

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amount due and payable by MAL to the Tenderer/ Contractor under this Contract or any other Contract and without prejudice to any other legal remedy available to MAL.

**(G) TENDERER/ CONTRACTOR TO COMPLY WITH ALL LAWS ETC:**

The Contractor/Tenderer shall be responsible for ensuring compliance with all Central and State Laws as well as the Rules, Regulations, Byelaws and Orders of the Local Authorities and Statutory Bodies as may be in force from time to time. The Tenderer/ Tenderer shall give to the statutory bodies, local authorities, police, and other relevant authorities all such notices etc. as may be required by law and obtain all requisite Licenses and pay all fees, Duties, Taxes, charges etc. in connection therewith as may be livable on account of his operations involved under this Contract.

The Contractor/ Tenderer shall make good at his own cost any damage to the property of the Company or any other body, persons, local authorities etc. due to or arising from operations involved under this Contract and the Company shall have the right to recover the cost of damage from dues payable from the Bank Guarantee or Security Deposit of the Tenderer/ Tenderer.

If Company's job-controller observes non-compliance by the Contractor/Tenderer in complying with provisions of labour statutes and specific Acts relevant to the Tender/ Contract, Company shall retain double the value of the non-compliance amount taking into consideration interest, penalty and dues. In case the Company is forced to pay the dues, along with interest and penalty, due to failure of the Contractor/Tenderer, the Company shall be at liberty to recover such amount or any part thereof by deducting it from the Security Deposit or from any sum due by the Company to the Contractor/Tenderer whether under this Contract or otherwise.

**(H) CONFIDENTIALITY:**

Both the parties during the continuance of this Agreement and 3 (Three) years after termination of this Agreement, Tenderer and/or his employees/ personnel shall keep all information, such as specifications, technical information, business data and other confidential information under this Agreement strictly confidential and shall not. Disclose it to any third party or use it for other purpose than to perform its obligations under this Agreement. Tenderer/ Tenderer and/or personnel may disclose the information to an employee of Tenderer, or a government agency or other regulating authority.

But only insofar as this is necessary either to carry out its duties under this Agreement or comply with any existing law, and under intimation to "Company". Where sub clause (b) applies, the Tenderer and/or personnel shall ensure that the person who receives the information keeps it confidential and does not use it for any unauthorized purpose. If any unpublished price sensitive information is disclosed by the Company the Contractor/Tenderer and its representatives, agents, shall comply with the provisions of the Insider Trading regulation applicable and made applicable from time to time.

Unauthorized disclosure of business "secrets" or confidential information is considered as gross indiscipline and liable for penalty.

**(I) Personal Data Privacy:**

Tenderer consents to other party to provide any personal data, if any and if necessary and also undertake to process personal data provided by the other party in a manner consistent with applicable laws, in particular with the provisions of the Digital Personal Data Protection Act, 2023 and rules made thereunder including the implementation and use of technical and organizational measures to ensure an appropriate level of their security.

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**(J) RELATIONSHIP:**

Each party understands that they are independent entities and this Agreement does not make it, its/ his employees, associates or agents, the legal representatives of the other party for any purpose whatsoever. Either party has express or implied right or authority to assume or to undertake any obligation in respect of and on behalf of or in the name of the other party or to bind the other party in any manner in respect of any transaction, except the present agreement.

**(K) WAIVER:**

The failure of either party to enforce at any time any of the provisions of this agreement shall not be considered to be a waiver of the right of such a party thereafter to enforce each and every provision.

**(L) ENTIRE AGREEMENT:**

This Agreement supersedes all oral and written representations and agreements between the parties, including, but not limited to any earlier agreement relating to the subject matter thereof and/or any other agreement between the parties in relation to the subject matter thereof.

**(M) AMENDMENT:**

The parties to this Agreement may add, delete, amend or alter all or any of the terms & conditions of this Agreement as mutually agreed from time to time and such modifications and changes shall not be effective until the same are in writing and duly signed by the authorized representatives of both the parties.

**(N) Declaration of Tenderers/ Contractors Relation with MAL Employee(s):**

Should a Tenderers/ Contractors have a relation or in the case of a firm, one or more of its partners a relation or relations employed in MAL or in case of company any of its official or relations employed in MAL, the authority inviting tenders shall be informed in writing of the fact at the time of submission of the tender. If so, the name, designation, department and Employee Number of such employees be indicated failing which MAL may in its sole discretion reject the tender or rescind the contract. If any ex- employee(s) of MAL is/ are employed, with the Tenderers/ Contractors, name, designation, department and employee number of such employee(s) be indicated and if any ex-employee(s) of MAL is/are employed after acceptance of tender, the said particulars shall also be intimated immediately in writing to MAL from time to time. If the Tenderer/ Supplier fails to inform the same, MAL shall at sole discretion may reject the tender.

**(O)** The Tenderer/ Contractor shall not be entitled to any claim including any cost, charges, TA/DA expenses or incidentals for the preparation and submission of this tender even if the Management may decide to withdraw the "NITT".

**(P) Dispute not to hold up works:**

The successful Tenderer(s) shall not stop the work in case of any dispute(s) unless further progress of work has been rendered impossible due to non-fulfillment of any reciprocal promise. Unilateral stoppage of work by the Tenderer shall be considered as a breach of contract and MAL reserves the right to take such action as it may deem fit keeping its interest as paramount.

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## ANNEXURE III

### Scope of Works & Contract Conditions for smooth operation:

Before submitting the rates in excel sheet, the bidders should be clear about the scope of works.

For any doubts, bidder should get it cleared from the job coordinator.

MAL -K8 Unit – Shri. **Sanjay Gawade ( Tel.022-27413024 ,Mob. 7738673400)**  
Mail- [sanjay.gawade@dfpcl.com](mailto:sanjay.gawade@dfpcl.com)

- The time allowed for carrying out the work as entered in tender / specified by Job Coordinator shall be strictly conserved by the contractor and shall be reckoned from the date on which the order to commence the work or completion of work is given to the contractor.
- If the progress of any portion of the work is unsatisfactory the MAL shall not be withstanding that the general progress of the work is satisfactory, the Contractor will have no claim for compensation, for any loss sustained by him owing to such action.
- The contractor or contractors will be responsible for the loss of their material as well as the material issued by MAL due to pilferage/theft. Hence, they shall have to ensure the security & safety of the material at their own expense.
- MAL shall have power to make any alterations in, or additions to the original specification drawings, designs and instructions that may appear to be necessary or advisable during the progress of the work and the Contractor shall be bound to carry out the work in accordance with any instructions in this connection.
- All quarry fees, royalties, octroi dues and ground rent for stacking materials, outside local issue if any will be settled/paid by the Contractor.
- Female coolies / workers / employees shall not work between 18.00 hrs. to 07.00 hrs.
- IF Any Quantity like to be increased the contractor must take Prior approval before job execution.
- Contractors should appoint a Main Engineer as In-charge of a minimum of 10-years' experience for each site.
- Under the main Civil In-charge, Contractor must deploy the civil engineers as per sites having minimum 5 years' experience of relevant work.
- The contractor must visit the site before he quotes the tender.
- All the QA/QP must maintain the contractor for all the items of execution at his own cost.
- Daily Progress report must be submitted by contractor to job coordinator.
- All the RCC work to be carried out as per IS 456-2000
- The contractor must make his own power distribution board system with required ELCB, MCB,50m Cable etc. (Refer. Electrical checklist is attached)
- The contractor must submit the Reconciliation statement.
- Quality Assurance & Quantity Verification through TPI Agencies
- Falsification or tampering of records, including safety certificates, attendance records, academic credentials, etc., will be considered as default and may invite penalty upon the Contractor.

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A separate excel sheet containing the service line items is given in each of the scope of works document in sealed envelope.

GST will be extra as applicable.

**Contractor's liability for all taxes as per Govt. Notification.**

The Contractor shall be liable to pay all the taxes payable as per the statutory requirements & made applicable from time to time by the concerned authority. MAL shall not be responsible for the same.

**PRICE BID FORMAT**

You will submit the quote considering with material (Material in your scope) and without material (Material provided by MAL) (Details are mentioned in details of Service code whether its required or not)

**Please note that this is only the unit rate chart.** The monthly bill will be approved for payment only on completed actual quantum of such listed services & supply as completed by the Contractor and certified by Job Co-Ordinator.

**The contract is on a Value basis. For every item unit is mentioned.**

**The approximate Tender Value per year will be Rs. 1.50 Crores.**

**Any increase in the quantity which exceeds the value of the order should be considered at the same listed unit rate agreed by the contractor. The finalized rate will be applicable throughout the contractual period & for similar works conducted by the contractor in the Plant premises of K1, K7 and K8 Plant.**

**Similarly, if by the end of the contract period the value in the said contract remains un-utilized then the validity of the said order will be extended. However, such a decision remains at the sole discretion of the MAL Management.**

The unit rates quoted by the suppliers shall remain firm till the completion of the contract period and during an extended period if any. No unit rate escalation on any other ground shall be allowed.

The quantity may be very +/- on either side during the tenure of the contract, The contractor/Tenderer will be paid as per the actual execution of the job which is to be certified by our job coordinator.

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## Maintenance and Plant specific Jobs

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6	DIVISION OF RESPONSIBILITY
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**(1) INTRODUCTION:**

Execution of various types of works as per mentioned in subject described here under is an occasional service required at various plants at Talaja.

**(2) ABBREVIATIONS AND DEFINITIONS:**

**DFPCL:** Deepak Fertilisers & Petrochemicals Corporation Ltd.

**MAL:** Mahadhan Agritech Limited

**EIC:** Engineer - in - Charge as defined in the General Conditions of Contract.

**GCC:** General Conditions of Contract annexed as part of this contract documents.

**FIM:** Free Issue Materials - This refers to materials issued by the company free of cost to the Contractor/Tenderer for performance of work under the contract and as per the conditions of the contract.

**ISBL:** Inside Battery Limit - The areas designated at individual sites by the company as forming part of inside battery limit.

**OSBL:** Outside battery limit - The areas designated at individual sites by the company as forming part of outside battery limit.

**PPE:** This refers to Personal Protective Equipment and covers all necessary personnel protective equipment to be used by Contractor/Tenderer staff and workmen for executing the works under the contract.

**DOR:** Division of Responsibility - This refers to the division of responsibility for providing the items specifically mentioned under the heading DOR in this document. The DOR is only for providing the item and it is the Contractor/Tenderer's the responsibility to execute and operate safely the company provided items.

**UOM:** Unit of Measurement

**SOR:** Schedule Of Rates

**SOP:** Standard Operating Procedure in use at respective site

**S.H.E.:** Safety, Health & Environment Department

**TDS:** Tax deducted at source.

**PSV:** Pressure safety valve

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**(3) DETAILED SCOPE OF WORK:**

**3.1. A. General**

The scope of work includes collection of all raw materials and other FIM from designated locations including performing all handling, loading, unloading, intermediate storages, fabrication, erection, dismantling, hydrostatic / pneumatic testing, box up, providing assistance during commissioning, etc as per drawings, specifications and instructions of EIC, provision of qualified, experienced and trained manpower and supervision, provision of all PPE for all manpower, provision of all material in Contractor/Tenderer scope including tools and tackles, reconciliation of all company supplied FIM, preparation, maintenance, submission and obtaining EIC approval on all required and specified documents, reports, accounting for all company supplied materials, following all statutory requirements and completion of the job in all respects.

- B. Contractor/Tenderer shall arrange for transportation of its personnel within the site. If Contractor/Tenderer deploys vehicles for movement of its personnel, the vehicle shall meet the fitness requirements specified by the company and shall not be more than four years old.
- C. Contractor/Tenderer shall ensure that the site is always maintained clean. All material shall be stacked neatly, and useful and scrap material shall be segregated based on the type of material. Spillage of grease, lubrications, etc shall be avoided and if happens, the same shall be cleaned immediately as per approved procedures.
- D. Random sampling will do and needs to be tested at NABL accredited laboratory in presence of MAL engineer.
- E. For every bituminous item theoretical and actual consumption needs to be submitted MAL.
- F. Physical weighment to carried out for every vehicle (gross and net) at MAL weighbridge or conditional based at outside premises.
- G. Dye penetrant testing (DPT), including provision of all required testing consumables and equipment of approved make and specifications, performing all required surface preparations on the testing areas like grinding, buffing, etc, performing all coordination with designated inspectors of the company for witnessing the testing, preparation of all records of the testing and obtaining approval of the test reports

**3.2 Piping and structures - Fabrication, erection, alignment, supporting, testing, box up and all other associated works**

- 1. All piping and structural fabrication, erection, alignment, supporting, hydrostatic / pneumatic testing, box up and other associated activities shall be performed by the Contractor/Tenderer as per drawings, specifications, and instructions of the EIC.
- 2. Collection of all raw materials, consumables, and all other company supplied materials from designated storage locations, performing all handling activities including loading, unloading, intermediate storage, handling all surplus and scrap material, returning the same at designated locations including performing salvaging operations wherever required.

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3. Fabrication of radiography quality piping including edge preparation, cutting, beveling, matching material of different thicknesses, bending, drilling, threading, pre heating, post heating, welding of pipes, fittings, flanges and other attachments, supports, fabrication of specials like mitre bends, fabricated reducers, etc on all sizes, thicknesses and material grades including carbon steel, carbon steel to NACE specifications, LTCS, all grades of alloy steels, all grades of stainless steels, nickel and nickel alloys, all grades of Aluminum, Monel, Inconel and Inconel alloys, etc at designated fabrication yards, at field locations and at all elevations.
4. Fabrication of structures including straightening if required, cutting, edge preparation, rolling, bending, drilling, welding, preheating, post heating, supply and application of one coat of red-oxide primer of 25 microns DFT after necessary surface preparation on all types of structural sections, plates, pipe sections, etc of all thicknesses and material grades at designated fabrication yards, at field locations and all elevations.
5. Erection of fabricated structures and structural components at all elevations, performing all rigging activities including preparation of rigging plans, welding, bolting activities at field, aligning, torque tightening as per standards wherever specified, and completion of all activities.
6. Erection of all piping and piping components including valves, tagged items, inline equipment, performing all rigging activities including preparation of rigging plans, aligning, welding, fabrication and erection of all types of pipe supports including welded, bolted, spring supports, guides, anchor supports and adjustment of the supports during operating conditions.
7. Laying of underground piping systems, components on trenches, providing all assistance to cathodic protection works. If specific cases wherein civil works are excluded from Contractor/Tenderer's scope, Contractor/Tenderer shall provide all assistance and coordination for completion of civil works along with underground piping works.
8. Performing all operations associated with cardboard blasting of pipelines including cutting of gasket sheets, fixing, making all arrangements for the cardboard blasting, ensuring all safety compliances and completion of the job as per specifications and instructions of EIC.
9. Testing of all piping systems and components including pneumatic, hydrostatic tests, as per procedures and testing specifications, including performing all test preparations like provision of drains and vents, blinding and de-blinding activities, preparation of temporary hook-ups, arrangement of connections and filling of water, air or any other testing medium, making all arrangements for pressuring the system, monitoring and measuring the pressure attained, performing all required inspection of the joints and components for leakages and other failures, performing all de-pressuring operations, preparation and submission of all records.
10. Flushing of the piping systems before / after hydro static / pneumatic testing, drying by compressed air / nitrogen as directed, box up of the system, performing leak test, providing all manpower assistance during hot bolting, cold / hot settings of spring supports, attending of all punch lists and handing over of the system.
11. Dye penetrant testing (DPT), including provision of all required testing consumables and equipment of approved make and specifications, performing all required surface preparations on the testing areas like grinding, buffing, etc, performing all coordination with designated inspectors of the company for

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witnessing the testing, preparation of all records of the testing and obtaining approval of the test reports.

12. Preheating, post heating and post weld heat treatment (PWHT) operations including mobilizing the necessary equipment, consumables, measurement aids like thermo-chalks, etc. If the company appoints a separate agency for the heating / heat treatment works, the Contractor/Tenderer shall perform all necessary coordination with the separate agency for heat treatment works. Handling of the fabricated components if required during the heat treatment process shall be in the scope of the Contractor/Tenderer.
13. Radiographic inspection of weld joints including mobilization of radiographic sources, films, developers, equipment required for interpretation, etc. If the company appoints a separate agency for the radiography inspection works, the Contractor/Tenderer shall perform all necessary coordination with the separate agency for radiography inspection works. Handling of fabricated / erected components if required during the radiographic inspection process shall be in the scope of the Contractor/Tenderer.
14. Contractor/Tenderer shall deploy certified NDE technicians for NDE works like DPT / MPI / Radiography, etc.
15. It is mandatory to have at least one ASNT Level 2 certified person per site.
16. For jacketed pipe depending upon the material for inner and outer pipe rates will be applicable. The jacketed piping will be measured as internal piping plus the outside jacket piping. Welding will be counted on joint basis plus number of weld joints for the jump over provided for jacket. For erection of jacketed piping length of outer pipe and inner pipe shall be separately considered and rate of erecting of piping given in item rates in schedule of rate shall be applied for the purpose of payment calculation.
17. In case of non-availability of standard elbows, the Contractor/Tenderer may be asked to fabricate metered elbows from the pipe material supplied by MAL. The Contractor/Tenderer will be paid based on the actual number of weld joints to form metered elbows on the rate indicated in the rate contract.
18. For steam tracers ½ “ NB pipe shall be used. Steam tracers for 4” NB pipe shall be 1 and for 6” pipe shall be 2. At end of tracers run these tracers will be drained by separate steam traps. The tracers attached to traced lines by means of 3 runs of 16 SWG soft annealed galvanized wire at 1500 mm spacing. Expansion loop having inner dia equal to 5” shall be provided for every 30 meters of traced length. Anchors shall be equally spaced on either side of the expansion loop. Bolted clamps shall be used as anchors. Fabrication of tracing lead and the tracer shall be paid on joint basis as per the rates in the item rates in the rate contract. Erection of the tracing lead and the tracer shall be paid as per the rate in item piping erection and hydraulic testing shall be paid as per the rates in the rate contract.

### **3.3. Works under Indian Boiler Regulations (IBR)-**

Piping and equipment works under IBR shall follow all provisions of the act. Contractor/Tenderer shall be fully familiar with the requirements of the act, shall perform all coordination activities for obtaining all approvals for executing work under IBR, shall deploy approved workmen for working on such jobs, shall maintain all records of material, drawings, work execution as required by IBR .Contractor/Tenderer shall follow instructions of designated company representative for these works and shall update the EIC and the designated company representative of all status of approvals and site visits of the IBR inspectors.

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**3.4. Erection of valves, in line equipment**

Collection of all types of valves and in-line equipment from designated storage locations, erection at all locations and elevations including performing all required welding, bolting, etc. All surplus valves shall be returned to designated locations.

**3.5. Dismantling of piping, structures, valves and other accessories**

Dismantling of erected piping, structures, valves and other accessories including performing all cutting (with gas, hack saw, grinding, or any other approved methods), grinding, performing all rigging activities including preparation of rigging plans, salvaging components from the dismantled material, segregation of material as per type and usability, returning the materials at designated locations such as stores, scrap yards, etc.

**3.6. Enabling works like surface preparation and primer painting**

Two coats of Primer to be applied to all CS fabricated pipelines/structures prior to erection. Performance of surface preparation and primer painting whenever instructed before or after fabrication including application of touch up primer.

**3.7. Spading, de-spading and replacement of gaskets of flange joints**

Spading, de-spading, replacement of gaskets on flange joints including opening of flanges, cleaning of flange faces, fixing of gaskets and box up of flange joints, performance of leak tests, etc. The scope includes flange joints of piping systems, heat exchanger flanges and equipment flanges including man ways, etc. Contractor/Tenderer shall make gaskets from gasket sheets whenever instructed as per required dimensions whenever ready made gaskets are not available. Contractor/Tenderer shall cut bolts to required lengths whenever instructed due to non-availability if required size bolts.

**3.8. Valves - Replacement of bonnet gaskets, gland packing, greasing, fabrication.**

1. Replacement of valve bonnet gaskets, gland packing including opening of the valve bonnets, removal of gaskets, cleaning the gasket seating surfaces, fixing of gaskets and performance of leak tests. The job shall be done at field at all locations and elevations and at other designated locations like workshop, etc.
2. Greasing of gear boxes, stem of valves at all locations and elevations.
3. Fabrication and fixing of valve keys at all elevations.

**3.9. Removal, cleaning and re-fixing of Y type / bucket type / conical strainers**

Removal, cleaning and re-fixing of all types of strainers at all locations and elevations, including performing all bolting, de-bolting activities, changing of gaskets, leak test, etc.

**3.10 Heating of bearings, shafts, etc**

Heating of bearings, shafts, etc as directed by EIC using oxy-fuel heating torches including supply of all consumables and equipment.

**3.11 Rigging, transportation of valves, motors, gas cylinders, etc**

Rigging and / or transportation including dismantling, loading, unloading, stacking and transportation of valves, any other piping, structural components, motors, gas cylinders, etc as directed by EIC

**3.12 Erection and dismantling of static and rotary equipment's.**

1. Erection of static and rotary equipment's of all weights at all locations and elevations including shifting from designated storage locations, performing all handling operations like loading, unloading, alignment including verification of alignment with equipment's like theodolite, laser assisted equipment's, etc,

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alignment of equipment with and without piping hook ups, preparation of foundations before erection like cleaning, verification of foundation dimensions vis-à-vis equipment and completing all works as per drawings, specifications and instructions of EIC.

2. Dismantling of all types of equipment at all locations and from all elevations including dismantling of all piping, instrument hook ups, removal of insulation wherever required, transportation of the removed equipment to designated storage locations including loading, unloading and all other handling activities.

### **3.13 Bagging plant Maintenance**

1.This includes, shifting of material from store to site, replacement of conveyor belts, chain, sprockets, gerabox, rollers, bucket elevator etc. shifting the scrap material to designated area.

### **3.14 MAL Scope of supply-**

MAL scope of supply is limited to the following.

1. Provision of required drawings and specifications.
2. Provision of all raw materials like structural steel sections, plates, pipes, fittings, flanges, gaskets, fasteners, all types of valves which are in company's scope.
3. Provision of welding consumables for all grades of alloy steel, nickel, Monel, Incoloy, Titanium, Haestealloy.
4. Provision of tools for torque tightening of bolts.
5. Provision of all gaskets, gland packing, grease, fasteners,
6. Provision of water, electricity, compressed air at one point in the site.
7. Provision of mobile material handling equipment like cranes, trailers, trucks, etc with operators.
8. Provision of open space for Contractor/Tenderer office and material storage.
9. Contracts for radiography and post weld heat treatment wherever these are not included in Contractor/Tenderer's scope.

### **(4) FREE ISSUE MATERIALS (FIM)-**

#### **4.1. The following items shall be issued as FIM for work under specific service codes as per SOR.**

1. Electrodes & Filler wires for all materials with the exception of carbon steel, LTCS,SS and Aluminium (as per SOR)as per NACE specifications.
2. All pipes, pipe fittings, flanges, valves, gaskets, fasteners and structural steel and plates.
3. All gaskets, gland packing, grease for valves.

**4.2 Free Issue Material Reconciliation:** The Contractor/Tenderer shall prepare a material consumption statement every month and obtain EIC's approval for the same. The approved consumption statement shall be submitted along with every running account bill. The Contractor/Tenderer shall also submit material reconciliation statements every quarter and shall obtain EIC's approval of the same. Material consumption and reconciliation statements shall be prepared in formats approved by EIC.

**4.3. Return of useful material:** Pipes of length more than 2.0 M for CS material, more than 3.0M for all non CS materials, structural steel of length more than 1.5 m and plates of size more than 1 sq. m shall be considered as useful material and shall be returned to designated storage areas against specific material codes as useful material. Material of dimensions less than those specified above, shall be returned as scrap on weight basis.

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**4.4** Contractor/Tenderer shall ensure that all FIM are handled with care during all times, is responsible for the safe upkeep of the items and shall return the same at company designated places on completion of the job or as and when instructed by the EIC. Contractor/Tenderer shall inspect the FIM on initial receipt from the company and bring to the notice of the EIC any discrepancy in quantity or quality of the materials received. Contractor/Tenderer shall periodically inspect the FIM in its procession and maintain necessary records of the same. Contractor/Tenderer shall always maintain an updated account of the use of FIM. Suitable recovery of the cost of the material shall be made for damaged or lost FIM.

**4.5** In the event of non-availability of consumable and other materials (under Company scope), the Contractor/Tenderer shall arrange to **procure** and supply the same on specific request made by EIC. The rate for the material supply shall be discussed with EIC and site contract cell and the Contractor/Tenderer shall obtain approval of rate from site contract cell of the company. On supply of the material, the Contractor/Tenderer is entitled to charge the approved rate of the same together with overhead and handling costs not exceeding 10% (Ten percent) of the approved material cost for all such supplies. The purchase shall be done from a GST /VAT registered party only. The claim should be supported by the original copy of cash memo with gate entry stamped as per instructions specified in GCC.

**(5) Scope of material supply by the Contractor/Tenderer include:**

**A**

1. All welding consumables including electrodes, filler wires for all carbon steel, SS, LTCS (as per SOR) piping and structural fabrication works. The electrodes should be purchased from reputed manufacturers like M/s Advani Oerlikon, D&H, ESSAB, L&T and approved by EIC.
2. All gases required for cutting, welding, heating and for all other activities. The gases shall confirm to the specifications and purity requirements as specified in the standards and procedures. The gases include oxygen, dissolved acetylene, argon, nitrogen, helium, etc.
3. All miscellaneous consumables like tungsten rods, purging and shielding arrangements, hoses for gases, etc.
4. All gases shall be supplied in cylinders meeting the safety requirements, fitted with flash back arrestors (both at cylinder outlet and at torch inlet), pressure gauges. The cylinders shall be handled in cylinder trolleys tied up with safety chains.
5. Provision of all welding machines, HF units wherever required, attachments for GTAW welding, regulators, grinding machines, drilling machines, gas cutting torches, gas heating torches, hydro test pumps (motorized and manual), hydraulic pipe bending machines, electrode baking and holding ovens, portable electrode holding ovens, etc and all other equipment required to complete the job as per drawings, specifications, and instructions of EIC.
6. All equipment and measuring instruments shall be calibrated and shall have valid calibration certificate throughout the usage period.
7. Provision of all accessories for all the equipment mobilized by the Contractor/Tenderer including all electrical cables (without joints), extension boards, plug tops, lugs, pressure gauges, valves, other measuring instruments, thermo chinks, etc.

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8. Provision of all tools and tackles including all required fitter tools, wire brushes (separate for CS, SS and other materials), chain pulley blocks, wire rope slings, chisels, files, manual punch (letters and numbers), etc
9. All material required for performance of dye penetrant tests, hardness inspection, including penetrants, developers, and samples, etc.
10. All equipment, accessories, consumables, insulation material required for pre heat, post heat, post weld heat treatment of the welds.
11. Qualified, experience and trained workmen and supervisors for performance of the entire job in Contractor/Tenderer scope including dedicated safety, quality supervisors and engineers.
12. Contractor/Tenderer shall ensure availability of minimum number of personnel as directed by EIC at all times at site. The Contractor/Tenderer shall also mobilize additional manpower to work and complete any emergency work as directed by EIC. All work executed by the Contractor/Tenderer shall be measured and become payable as per the terms and conditions of this contract and the schedule of rates which forms part of this contract. No additional compensation is payable to the Contractor/Tenderer for the performance of any work under this contract beyond those specified in the schedule of rates.
13. Provision of all PPE for its workmen and staff including safety goggles, helmets, safety shoes, hand gloves, welding helmets, safety body harness, etc. as per the safety standards specified and instructions of EIC.

**B. Testing requirements of Contractor/Tenderer supplied materials.**

1. The Contractor/Tenderer shall follow all site-specific instructions and procedures with regard testing requirements of Contractor/Tenderer supplied equipment, tools and tackles.
2. Qualified Contractor/Tenderer shall offer all electrical equipment's and hand tools, gas cuttings equipment's, all pressure gauges, regulators, all lifting tools and tackles, wire rope slings, D shackles, etc for inspection by designated persons of the company and shall obtain approval before usage.
3. Contractor shall obtain certificates as per factory act for all rigging tools and tackles and shall maintain validity of the certificates by offering for periodic inspection to authorized agencies and shall ensure that only those tools with valid certificates are used in the job.
4. Contractor/Tenderer shall at all times maintain records of all tools and tackles, equipment, measuring devices and gauges, including inspection and certification details, and make them available for inspection by EIC or any other authorized personnel.

**(6) DIVISION OF RESPONSIBILITY**

**6.1 Under Contractor/Tenderers scope -**

- a. Accommodation to workmen
- b. Accommodation to Contractor/Tenderer staff
- c. Vehicle for transportation of workmen
- d. Vehicle for transportation of Contractor/Tenderer material within site
- e. Vehicle for transportation of FIM within site
- f. Mobile lifting equipment for loading / unloading / shifting of Contractor/Tenderer material within site.
- g. Mobile lifting equipment for loading / unloading / shifting FIM material within site.

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- h. Contractor/Tenderer office
- i. Safety tapes
- j. Display boards
- k. Material lifting equipment like chain pulleys, etc.
- l. PPE for workmen and staff
- m. Welding Machine
- n. All welding accessories
- o. All cutting machines, accessories.
- p. All gases
- q. All welding consumables for CS, LTCS, NACE specifications

**6.2 Under MAL Scope**

- 1.Space for Contractor/Tenderer office inside MAL premises subject to availability.
- 2.Erection equipment’s like cranes, faranha, bobcat, forklift etc for erection / dismantling activities at field
- 3.Telephone facility on chargeable basis (if available)
4. Issue of all FIM.Space for Contractor/Tenderer office inside MAL premises subject to availability.

**6.3 As per SOR – Schedule of Rates**

- a. Scaffolding pipes
- b. Scaffolding clamps
- c. Scaffolding jallies, planks, toe guards, ladders, etc
- d. Electrodes, filler wires for alloy steel
- e. Electrodes, filler wires for all SS and special metals

**7. SPECIFICATIONS, CODES AND STANDARDS**

The following is a listing of general specification to which the work under this contract shall comply. However site and job specific specifications, drawings and instructions of EIC shall supersede these specifications when issued and advised by EIC.

ASME section II, part A	Ferrous Materials Specifications
ASME section II, part C	Specifications for welding rods, electrodes, and filler metals
ASME section V	Non-Destructive
Examination ASME section IX	Welding and Brazing
Qualifications ASME B 31.1	Power Piping
ASME B 31.3	Process Piping
API 5L	Specification for line pipe
IS 2062	Hot Rolled Low, Medium and High Tensile Structural Steel
IS 1239	Steel Tubes, Tubulars and Other Wrought Steel Fittings
IS 3589	Steel Pipes for Water and Sewage

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**(8) EXECUTION PROCEDURE**

**8.1 General**

The procedure mentioned herewith is to be read in conjunction with the drawings, specifications and standards mentioned elsewhere in the document. The execution procedure mentioned here is not exhaustive and the Contractor/Tenderer shall prepare a method statement of the work execution and shall submit the same to EIC for approval. Contractor/Tenderer shall follow the Standard Operating Procedures wherever applicable and instructed by EIC. All work shall be executed as per approved procedures only.

Contractor/Tenderer shall contact the EIC for detailed work instructions for all work categories and execute all work accordingly. Permit to work procedures shall be always followed.

Contractor/Tenderer shall prepare AS BUILT drawings for all fabrication and erection works. These drawings shall be "marked up drawings" - changes marked on the drawings issued by MAL for work execution.

Contractor/Tenderer shall prepare all quality records for all its work; obtain approvals from designated inspection authorities from MAL. All work certifications shall be based on inspection cleared works only.

Contractor/Tenderer shall make itself fully conversant with the locations and the type of job to be carried out therein so that the scope of work is clearly understood and shall assess the requirement of resources required to complete the work in scheduled time. Contractor/Tenderer shall contact the respective Engineer-in-charge for this purpose.

The Contractor/Tenderer shall prepare and submit to the EIC a schedule based on the work targets advised by EIC. Contractor/Tenderer shall mobilise resources and shall meet the targets advised by EIC. The Contractor/Tenderer shall submit progress reports at specified intervals and shall be responsible to ensure achievement of work targets.

All welding work shall be executed by qualified and certified welders only. Contractor/Tenderer shall apply for welder qualification witness by authorized MAL personnel. Welders shall be deployed only for the processes they have been qualified. Contractor/Tenderer shall maintain welder performance records in the formats specified in the codes and as provided by the EIC. All welding shall conform to the standards and site-specific specifications.

All welding consumables and gases in the scope of supply of Contractor/Tenderer shall be of approved manufacturer only. Contractor/Tenderer shall apply for EIC's approval of manufacturer if its proposed manufacturer is not already approved by MAL. Contractor/Tenderer shall ensure storage of all consumables as per manufacturers' recommendations and instructions of EIC. Contractor/Tenderer shall ensure wherever specified, baking and holding temperatures of consumables, preheating, post heating of the work, maintenance of inter pass heating / quenching, etc. All equipment's deployed for heating the work and ovens for baking / holding the consumables shall have calibrated gauges.

All gases used for fabrication shall meet the purity requirements. Contractor/Tenderer shall submit manufacturer certificates for all gases and consumables supplied.

Contractor/Tenderer shall ensure all grinding wheels used are within validity period and are not after expiry dates. All date expired grinding wheels shall be immediately removed from the site.

Contractor/Tenderer shall ensure that lifting tools and tackles including wire rope slings, D Shackles, etc are tested and carry the certification stamp. All tools and tackles that have failed the tests shall be removed immediately from

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the site. Contractor/Tenderer shall maintain a list of lifting tools and tackles, their certification details and shall have a system for revalidation of the same before the expiry of the certification validity period.

Contractor/Tenderer shall perform all co-ordination works with other Contractor/Tenderers whenever instructed by EIC if there are interfacing requirements between one or more Contractor/Tenderers / agencies during execution of job under this contract. (Examples: Coordination requirement with Contractor/Tenderers performing Scaffolding, NDE, PWHT, Civil works for underground piping, blasting and painting, hydro jetting, etc. works).

#### **Maintenance Activities –**

##### **A. Flange Joint jobs -**

1. Opening all type of flanged joints by de-bolting or cold/Hot, gas cutting of fasteners wherever required, cleaning of flange faces, cleaning and lubrication of fasteners, fixing of gasket and boxing up of flange joint in steam, process, water lines and gland packing.
2. To carry out hot loosening for easy opening and hot bolting during/after starting up wherever required.

##### **B. Burner gun, Filters, Strainers, Soot blowers, Steam Traps, Demister Pads, Oil tanks jobs-**

1. Removal of all auxiliary connections to burner, dropping complete assembly of the burner and cleaning for preliminary inspection, provisioning of air registers and testing of free movement of the system and finally boxing up the complete assembly and its auxiliary connections with proper alignment at all elevations.
2. Flushing, draining, cleaning and filling up of small hydraulic oil tanks of rotary equipment.
3. To remove and clean all type of filters and strainers.
4. Cleaning of all type of steam traps for proper functioning.
5. Greasing up of all type of Ladders of Floating roof Tank.
6. Dropping, cleaning by means of compressed air or water jet and re-fixing the de-mister pads after inspection.
7. Cleaning and lubrication of fasteners is to be done before box-up.
8. To carryout hot loosening, hot bolting during/after start up wherever required.

##### **C. Heat Exchange Jobs**

Thorough cleaning of heat exchangers, condensers, coolers and other plant equipment irrespective of their locations / elevations within the Complex, using wire brush, water, steam, compressed air and other related manual cleaning operation/s as per the instruction of Engineer-in-charge.

##### **The job includes following :**

1. Blinding, de-blinding, wedge opening of connected lines/equipment flange joints and making necessary connections/dis-connections of air, water and hoses for flushing and isolation.
2. Flushing, opening, dropping, cleaning, and boxing up of channel cover, channel section, floating head cover etc.
3. Pulling out tube bundle from shell, physical /manual cleaning of shell internally and tube bundle internally as well as externally by rodding /wire brush.
4. Insertion of tube bundle into shell, fixing back the channel section, fixing test ring and carrying out hydro test as per prescribe pressure. (In case of re-boilers test shall be carried out in dummy shell).
5. Rolling and plugging of leaky tubes, if required. Removal and dropping of test ring, fixing back the floating head cover and channel carrying out tube test/ floating head test at prescribed pressure.
6. Partial replacement of the leaky tubes by cutting the tubes at both end, pulling out the tube, removing left out portion of the tube from the hole by grinding/ drilling, cleaning the holes by reaming, insertion of new tube, rolling tube at both the ends and seal welding if specified.
7. Partial replacement of the leaky tubes by cutting the tubes at both end, pulling out the tube, removing left out portion of the tube from the hole by grinding/ drilling, cleaning the holes by reaming, insertion of new tube, rolling tube at both the ends and seal welding if specified.

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8. Finally boxing up of shell cover and carrying out shell side hydro-test at prescribed pressure.
9. Replacement of gaskets of all flanged joints ( including channel cover, floating head cover, shell cover etc.) before box-up which were opened for maintenance.
10. To carryout hot loosening, hot bolting during/after start up wherever required.
11. Transportation of spare tube bundle, in case of replacement, from the place of storage to place of work
12. Other related jobs like cleaning and lubrication of studs and nuts in connection with the heat exchanger.
13. Supply of required sizes of wire brushes, extension rods and other cleaning consumables.

#### **D. Rigging Jobs**

1. To carry out dismantling/erection of equipment as & when required as per the instructions of the Engineer-in-charge
2. To submit the detailed rigging studies for approval for all vertical equipment, any equipment 10 tones or over, and any equipment to be located at an elevation of 5.0 meters or over.
3. Elevation and location of the surface shall be perfect onto which any equipment is to be located, the bolts in plinths and bolt holes in structural steel shall be correctly located.
4. When using hoisting systems, ensure that they have adequate capacity and safety factor that they are in a perfect state of conservation and that they comply with various safety regulations.
5. To ensure that any lifting slings and mechanical handling devices, only apply loading to the equipment at points where it has been designed to accept such loads. To use slings, which will minimise damage to paint work, such as nylon band or strop slings. All lifting equipment shall have up-to-date test certificate for their specified load capacity.
6. To ensure that no damage occurs to equipment or parts thereof, including flange facing or other property on site during rigging. If any damage is caused then the Contractor/Tenderer shall repair such damage or replace damaged equipment after receipt of Eng.-In-Charges approval/ instruction in writing.
7. Clean threads of anchor bolts and coat with graphite.
8. To take utmost care in handling equipment with a non-metallic liner.
9. To take oxygen test on the atmosphere in any equipment before entry
10. To obtain approval from Engineer-In-Charge prior to operating, rotating, or opening equipment.

#### **Detailed Requirements: In addition to general requirement following requirements shall consider:**

- a) Vessels, Drums, Columns and Tanks: During lowering and lifting it to ensure that the equipment is supported in a stable manner with the provisions of necessary guys, stays or props. Vertical vessels, columns and Stacks, shall be erected so that their vertical centerline is within 1mm of true vertical per 1000mm of height, up to a maximum of 20mm deviation. Horizontal vessels and drums shall be erected so that their horizontal centerline shall not be more than +/- 3 mm from true horizontal from end to end of the vessel.
- b) Heat Exchangers: To ensure that slide plates are located and lubricated to allow expansion of the equipment in the designed direction. To ensure that the tube bundles are fixed as per specification.
- c) Opening & Box Up Of Static Equipment / Vessel Man ways And Pipe Line Flanges-
  - 1) To open & box up the static equipment, vessel man ways and pipe line flanges as per instructions of engineer-in-charge.
  - 2) To carryout hot loosening, hot bolting during/after start up wherever required.

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- d) Opening And Re-Fixing of All Type Of Valves, Instruments from Pipe Line / Equipment at any Elevation Including Both Ways Transportation between Plant And Work Shop-
- 1) Opening of all flange joints of all type of valves and instruments by de-bolting, cutting of fasteners whenever required, cleaning of flange facing and erection of valves in position and in correct direction and providing gasket, irrespective of material of construction from pipe line, equipment at any elevation including both ways transportation between plant and work shop as per instructions of engineer-in-charge.
  - 2) To carry out hot loosening, hot bolting during/after start up wherever required.
- e) Opening, Cleaning, Re-Fixing And Replacement, If required of Gauge Glasses From Equipment at Any elevation including both ways Transportation between Plant & W/Shop.
1. To open, clean, re-fix and replace ( including replacement of gasket ) level gauge glass irrespective of material of construction , fixed on equipment at any elevation including bringing down to grade level if required and taking back to position and both ways transportation between plant and work shop as per instructions of Engineer-in-charge.
  2. To carry out hot loosening, hot bolting during/after start up wherever required.
- f) Spading & De-Spading of Equipment and Pipe lines and card Board blasting.
1. Opening , wedge opening of flange joints of all type of valves, piping, orifice etc. by de-bolting, cold or gas cutting of fasteners, whenever required, cleaning of flange facing , cleaning and lubrication of fasteners, providing blind along with the gasket and boxing up of the flange. After completion of job, same procedure is to be followed for removing the blind and boxing up the joint with new gasket as per instructions of the engineer-in-charge.
  2. Opening of flange joints of piping by de-bolting, cold or gas cutting of fasteners, whenever required, dropping of spool piece if required, providing cardboard for cleaning the pipelines through cardboard blasting. Removing cardboard after blasting, cleaning of flange facing, cleaning and lubrication of fasteners and box up of the flange/spool piece as per instructions of engineer-in-charge.
  3. To carryout hot loosening, hot bolting during/after start up wherever required.
  4. As a guideline, gasket sheet of 3mm thickness is to be used for blasting line sizes up to 4 and 2 sheets of 3 mm gasket are to be used for line size of 6 and more but in no case, line pressure should increase more than 2.5 bar g.

**(9) SAFETY**

- a. The Contractor/Tenderer shall follow safety rules & regulations, safety procedures as per the safety standards and comply with the safety requirements.
- b. The Contractor/Tenderer shall deploy at site a full-time safety in-charge and full-time safety officers with requisite qualification, experience and training. The safety in-charge shall be a senior person.
- c. The Contractor/Tenderer shall submit an organization chart of its department to the EIC and shall obtain EIC' approval. The Contractor/Tenderer shall mobilize and always ensure availability of personnel as per approved site safety organization during execution of work under this contract.

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- d. The Contractor/Tenderer is required to deploy persons for specific jobs who are trained and skilled in particular trade and well familiar with hazards and safety precautions.
- e. The site staff and workers of the Contractor/Tenderers are required to undergo safety orientation before they are assigned work at site. No person shall be allowed at work site without safety orientation. Contractor/Tenderer shall make hazard identification and risk assessment of job and accordingly will be using skilled manpower with appropriate safe job procedure and personnel protective equipment's. Job supervision is compulsory.
- f. The Contractor/Tenderer shall plan and execute work in such a way to avoid accidents / injuries to its-own staff and workers, other workers, company employees, damage to company property and damage to environment.
- g. Adequate resources must be made available by the Contractor/Tenderer for safe execution of work at site. Short cut methods or make-shift arrangement will not be allowed.
- h. The Contractor/Tenderer shall ensure that any time during the performance of the work his personnel are fit to execute the tasks assigned and are not under the influence of any alcoholic liquor, drug or other intoxicating substances.
- i. The Contractor/Tenderer shall make himself and all staff/workers familiar with emergency procedure and response action to respond rightly in the event of any emergency due to fire/gas leak, etc. in the operating plants at site.
- j. Contractor/Tenderer shall ensure that all its staff and workmen are aware of the site-specific safety guidelines wherever applicable and shall ensure that the same is followed.
- k. It is the responsibility of the Contractor/Tenderer to ensure good housekeeping at work site. The scrap debris, unwanted material etc. shall be removed frequently from the workplace to avoid accident and work area shall be kept tidy. Gangways shall be kept clear of obstructions. Contractor/Tenderer shall deploy dedicated personnel for housekeeping.
- l. Failure or negligence on part of Contractor in following health and safety rules shall invite penalty as may be decided by the management and/or as described herein below.

**Personal Protective Equipment (PPE )**

The Contractor/Tenderer shall provide personal protective equipment as specified to its staff and workmen such as, safety helmets, safety shoes, safety goggles, ear plugs, hand gloves, safety harness / belts, overalls, gum boots etc. and other work equipment as required for safe execution of work at his cost. Special PPEs/ safety appliances, if required for any job as mentioned below job may be provided by the company on chargeable / returnable basis (cost of repair or damage as a result of mishandling will be charged from the Contractor/Tenderer). All the safety equipment's should meet the specifications prescribed/approved by S.H.E. department of the respective sites.

**9.1 Activity/Hazard and Recommended PPE**

- 1) Nontoxic dust nuisance---Dust mask, Panoramic goggles, Hand gloves PVC/ Rubber

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- 2) Toxic & Corrosive liquids/gases --Face shield, PVC Apron, PVC suit with hood, Positive Pressure suit , Panoramic Goggles, Gum Boots, SCBA sets, Airline mask set, Cartridge type Mask,
- 3) Working at height --Full body Safety Harness / Belt with two lifelines, Canvas hand gloves, Leather Palm canvas hand gloves,
- 4) Material Handling --Leather hand gloves, Aluminized hand gloves, Aluminized suit with hood, Asbestos/Leather apron, Spectacle type toughened glass,
- 5) Grinding/Chipping --Goggles, Panoramic goggles

## 9.2 Responsibility of provision of PPE

### Under Contractor/Tenderer Scope.

Dust mask, Safety helmets, Boiler suit, safety shoes , Panoramic goggles , Hand gloves PVC/ Rubber , Face shield, PVC Apron, Panoramic Goggles, Gum Boots, Full body Safety Harness / Belt with two lifelines, Canvas hand gloves, Leather Palm canvas hand gloves, Leather hand gloves, Asbestos/Leather apron, Spectacle type toughened glass.

### 2 Under MAL Scope on returnable basis-

PVC suit with hood,  
 Positive Pressure suit, SCBA sets,  
 Airline mask set, Cartridge type Mask, Aluminized hand gloves, Aluminized suit with hood,  
 In case returnable PPEs are not received back/received in damage condition beyond normal wear & tear, cost of PPE shall be deducted from the bills of Contractor/Tenderer concerned.

## 9.3 Specifications for Contractor/Tenderer provided PPE.

The personal protective equipment shall be of standard make and preferably should have ISI mark or other certificate of approval from recognized institution/organization and ensure that are maintained in good condition and worn by workers as per the requirement.

Safety Helmet: Moulded out of high impact, heat & chemical resistant HDPE with brim for additional side protection with 6-point ergonomic adjustable head band & chin strap and approved as per BIS specification no. IS: 2925-1984

Safety Goggles: Toughened/ Polycarbonate scratch resistant lens with side shield, optically correct zero power, impact resistant and approved as per BIS specification no. IS: 7524 Part-I.

Safety Harness with double lifeline: Waist belt with shoulder strap, 6mm thick coated friction buckle& joint less D-ring, 44 mm wide nylon webbing, padded back, nylon stitched along with copper rivets for additional safety," quick fit" spring loaded hook and approved as per BIS specification no. IS: 3521.

Safety Shoes: High ankle shoes, made from fine quality plain black leather, padded collar, D-rings, full below attached tongue, with steel toe cap as per IS 5852 with direct injection PVC Nitrile heel sole resistant to acid, alkali, oil.

## 9.4 Guidelines for Personal Protective Equipment

Safety Harness / Belt: Full body safety harness / safety belts with two lifelines shall be provided for all jobs at heights. No persons will work at height without fall arrest device / safety belt with two lifelines except where standard scaffolds/work platforms are erected with proper handrails/ toe guards for fall protection.

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Safety Goggles: Appropriate eye protection shall be used by the persons according to nature of hazard. The Contractor/Tenderer has to ensure that safety goggles/face shields are provided to workers.

Ear Plugs: Persons engaged in jobs near high level of noise (85 db or more) shall be provided with ear plugs / earmuffs.

Hand Gloves: All workmen / supervisors shall be provided with and use work gloves (cotton hand gloves) to avoid minor hand injuries. Other types of hand gloves specific to hazards will be used by workmen / supervisors.

Scaffolding: The Contractor/Tenderer is required to use standard scaffolding and temporary work platforms for jobs at elevations 2 meter or more. Unsafe work methods shall not be allowed. All temporary work platforms shall have guard rails/toe guards with proper means for access.

Electrical Equipment: All the electrical equipment shall be in good working condition. The electrical circuits shall be used with ELCB. Electrical circuits/ extensions boards used for hand tools shall have ELCB of 30 mA rating. Power supply cables with joints shall not be used at site.

Safety Guards: All moving parts like fly wheels, toothed gears, belt drives shall be provided with proper guards. No equipment/ machine with exposed moving parts shall be used at site.

Lifting Equipment: All lifting equipment, chain blocks, tools, tackles, cranes, etc shall have valid certification from a competent authority and shall be maintained in good working condition.

Fire Extinguishers: Contractor/Tenderer shall make adequate provision and provide fire extinguishers at certain locations e.g. stores containing combustible materials, solvents, paints, fuel storage, gas cylinder storage etc.

Gas Cylinders: Gas cylinders trolleys shall be used for safe handling gas cylinders at site. The Contractor/Tenderer must have adequate trolleys to handle gas cylinders.

## **(10) WORKINGHOURS**

Normal working time shall be same as the general shift timing of the respective sites. This will be 8 working hours excluding lunch time. However, based on the job requirement during the planned /unplanned shutdown/emergencies or as per plant requirement and instructions of EIC, Contractor/ Tenderer shall work beyond normal working hours also. No separate / additional compensation shall be payable for the same. (In such cases the Contractor/Tenderer must work as and when required without any percentage increase on SOR.)

## **(11) MOBILIZATION**

Contractor/ Tenderer shall arrange for necessary materials, workmen and supervision to start the work within 48 hours of instruction from EIC. In case of emergency or shutdown, Contractor/Tenderer shall mobilize all required resources and start the work within 24 hours of instruction of EIC.

To & fro transportation of the equipment shall be arranged by Contractor/Tenderer. However mobile crane/tractor, EOT/ HOT facilities, if required for loading /unloading supply of slings and movement of the machine at site shall be provided by Company, free of charge. However actual activities of loading / unloading, internal shifting of machines shall have to be done by Contractor/Tenderer's manpower.

Contractor/Tenderer shall complete all formalities for its staff & workmen with company's P&A / IR/Contract Cell as required for gate pass and mobilize the manpower as per the requirement of EIC.

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Contractor/Tenderer shall interact with S.H.E. department of company for scheduling training program for its total untrained personnel prior to entering complex.

Contractor/Tenderer shall initiate gate pass request to EIC, get it counter signed by P&A/IR/Contract Cell and then submit to security in advance as required to mobilize manpower.

## **(12) JOB COMPLETION TIME**

For individual works from time to time as and when need arises, separate intimations shall be issued from individual plants/ EIC. Contractor/Tenderer shall ensure mobilization of all required resources and completion of the job including dismantling, etc. as per EIC instructions.

## **(13) MODE OF MEASUREMENT**

Mode of Measurement will be guided by & as per instructions given by our EIC / Job Coordinator Measurement need be carried out in presence of EIC. Once Measurement has completed & Contractor/ Tenderer have to get acknowledgement on measurement sheet from EIC/ Job Coordinator. Same Sheet needs to be attached / present at the time of bill submission & Payment.

### **13.1 Piping fabrication**

1.All piping fabrication shall of radiography quality and measured and paid in inch diameters (IND). The measurement shall be segregated material wise, thickness wise and welding process wise.

2.The pipe fabrication rate includes cutting, bevelling ,edge preparation and fabrication at all locations and elevations. No separate payment for cutting and bevelling shall be payable for piping fabrication jobs.

3.Inch diameters is measured as below: Nominal size of the pipe/ fitting/flange in inch multiplied by number of joints.

4.Mitre bends shall be measured in IND. (nominal pipe size in inch multiplied by number of joints) No additional factors shall be used in calculating the inch diameters.

5.Fabricated reducers shall be measured in actual linear welding quantities.

6.Branch connections without tee fitting and without reinforcement pads, trunnion supports shall be measured as 1.5 times the inch dia based on branch size in inch.

7.Branch connections without using tee fitting and with reinforcement pads shall be measured as 3.5 times the inch dia based on branch size in inch.

8.Full encirclement pads shall be measured as 2 times inch dia of the header size.

9.Drilling and tapping of holes and pressure testing of RF pad is included in the rate for RF pad as above

10.All pipe support fabrication shall be measured in MT irrespective of the nature of structural sections.

11.Certification of all welding activities shall be done only on completion of welding inspection clearance and acceptance. (Visual inspection / NDT).

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12. Root DP test is mandatory for all weld joints. For joints completed without offer and acceptance of root DP, radiography or other NDT test may be taken at the discretion of EIC / Inspection engineer. Costs associated with such radiography / NDT test shall be payable by the Contractor/Tenderer. Repairs if detected during such radiography / NDT tests shall be rectified by the Contractor/Tenderer at no additional cost.

### **13.2 Piping erection**

1. All piping erection shall be measured in inch dia meters (INM) irrespective of size, schedule and material of construction of the pipe, fittings, flanges, valves and in line items. Inch dia meter is measured as below:

2. Nominal size of the pipe in Inch multiplied by the length of the pipe in M. Length of the pipe is measured as the linear measurement along the centerline of the erected piping system. No deductions are made for fittings, flanges, valves and all other in-line equipment erected as part of the piping system.

3. All bolted flange connections in piping system are covered in the rate on inch m basis for piping erection. No flange joint shall be payable separately.

4. The scope of erection includes erection of the piping system, alignment, supporting, testing, flushing, box up and assistance during hot bolting and torque tightening.

### **13.3 Pipe supports.**

1. All fabricated pipe supports shall be payable against fabrication & erection under separate line items.

2. Wherever supports are supplied as FIM, only erection is payable under support erection pay item.

3. Fixing of U Clamps if supplied as FIM shall be part of the of the erection scope and no separate measurement / payment shall be made.

4. U clamps if supplied by the Contractor/Tenderer shall be payable under a separate line item under "supply of U clamps". No separate payment shall be made for erection of U clamps.

### **13.4 Tie-in Joints**

Tie in joints shall be measured and payable separately on number of joints basis for the size ranges. Tie-in joints are defined as those joints wherein at least one of the pipes being joined is under operating conditions. At every "Tie-in" point, only one joint shall be certified as "Tie-in" joint. Additional joints in the pipeline including tapping, drain / vents/ etc shall not be certified as "Tie-in" joints.

### **13.5 Valve erection / dismantling:**

1. Flanged valves: Valves erection and dismantling shall be measured in Inch Dia Size (IDS) categorized based on valve type, size and rating. IDS are defined as the size of the valve based on nominal bore (NB). For sizes upto 1.5 Inch , the same shall be measured as Each (EA) as mentioned in the SOR.

2. Welded valves: Welded valves shall not be measured separately. The weld joints of the valve shall be measured as part of the inch dia certification for fabrication.

3. No deduction shall be made for the length of valves while computing the length of the piping system for erection / dismantling inch m quantities.

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### 13.6 Dismantling of piping:

1. Dismantling of piping shall be paid in Inch M irrespective of pipe line size, material of construction, thickness, elevation, etc.
2. Valves shall be measured separately as above.
3. All cutting shall be paid separately as per rates for cutting.
4. Opening of flange joints shall not be payable separately. This activity is included in the rate for dismantling on Inch M basis.
5. Dismantling rate includes activities of transporting dismantled piping system, segregation, returning to storage locations and stacking.

### 13.7 Fabrication and erection of structures

1. Structural steel fabrication and erection is measured in MT basis only for all categories of structures.
2. Weight of fabricated structures is taken as the quantity for certification.
3. No deduction is to be made for the drilled holes in the structures.
4. Weight of fasteners is not to be calculated for erection weight.
5. Top of Structure (TOS) is taken as the base for deciding elevation of structure for the purposes of billing.
6. Payment on length of weld shall not be used for regular structural fabrication works.
7. Measurement of the Handrail shall be in Meter and measurement to be taken only of Top pipe length of handrail. Measurement of Bottom pipe/vertical pipe and Toe guards not to be included (Rates are negotiated & finalised accordingly)

### 13.8 Maintenance / Heat exchanger jobs

1. All maintenance and heat exchanger related jobs shall be measured as per the terms mentioned in the SOR.

## **TERMS AND CONDITIONS FOR ANNUAL RATE CONTRACT FOR EXCHANGER JOBS IN MALS PLANTS LOCATED IN TALOJA**

**1. INTRODUCTION:** Scope of this Annual rate contract will cover all exchangers in MAL plant. The work scope includes overhauling of all exchangers including necessary and required accessories, tools and tackles, all required manpower and supervision as per drawings, specifications, specified safety standards and instructions of Engineer in Charge. Please refer **ANNEXURE 1** of general terms and conditions of contract.

Detailed scope of work is as follows.

### **2. JOB COMPLETION TIME:**

The total contract duration is as specified in the contract. However for individual works from time to time as and when need arises, separate intimations shall be issued from individual plants/Engineer Incharge. Contractor/Tenderer shall ensure mobilization of all required resources and completion of the job including dismantling, etc. as per EIC instructions. Job completion means including removal of waste material and house keeping of work spot without which job completion certification shall not be issued.

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### 3. WORKING HOURS:

Normal working time shall be same as the general shift timing i.e. from 09:00 to 17:30 hours. This will be 8 working hours excluding lunch time. However based on the job requirement and instructions of EIC, Contractor/Tenderer shall work beyond normal working hours also. No separate / additional compensation shall be payable for the same.

### 4. MOBILIZATION:

Contractor/Tenderer shall arrange for necessary materials, workmen and supervision to start the work within 4 hours of instruction from EIC. In case of emergency or shutdown, Contractor/Tenderer shall mobilize all required resources and start the work within 2 hours of instruction of EIC.

Contractor/Tenderer shall complete all formalities for its staff & workmen with company's Security Dept. as required for gate pass and mobilize the manpower as per the requirement of EIC. Contractor/Tenderer shall interact with Safety department of company for scheduling training program for its total untrained personnel prior to entering into complex.

Contractor/Tenderer shall initiate gate pass request to EIC, then submit to security in advance as required to mobilize manpower.

### 5. DETAILED SCOPE OF WORK:

#### **Area of allocation: All MAL plants located in TALOJA**

The job includes provision of all required tools & tackles, lifting arrangements like chain pulley blocks, all consumables and qualified, experienced and trained supervision and labour, mobilizing and demobilizing necessary and required accessories, tools and tackles from Contractor/Tenderer's storage locations, handling at intermediate storage locations at site if any, and completing the job as per standards, specifications and instructions of the EIC.

### 6. CONTRACTOR/TENDERER SUPPLIED MATERIALS:

The following materials shall be supplied by the Contractor/Tenderer

All accessories for exchanger overhauling.

All tools and tackles required for the performance of the services.

All equipment and accessories required for material handling / shifting / storing.

All PPE required for the Contractor/Tenderer workmen and staff like dust masks, safety body harness, safety belt, ladder, safety shoes, helmet, hand gloves, safety goggles, any other PPE, rain gears, overalls, etc.

### 7. DIVISION OF RESPONSIBILITY:

#### **7.1 Under Contractor/Tenderers scope -**

- a. Accommodation to workmen
- b. Accommodation to Contractor/Tenderer staff
- c. Vehicle for transportation of workmen
- d. Vehicle for transportation of Contractor/Tenderer material within site
- e. Vehicle for transportation of FIM within site
- f. Mobile lifting equipment for loading / unloading / shifting of Contractor/Tenderer material within site
- g. Contractor/Tenderer office
- h. Telephone facility on chargeable basis
- i. Safety tapes
- j. Display boards
- k. Material lifting equipment like chain pulleys, etc

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I. PPE for workmen and staff.

## 7.2 Under MAL Scope -

a. Space for Contractor/Tenderer office inside company premises subject to availability.

## 8. SAFETY REQUIREMENTS:

Please refer ANNEXURE II for detailed safety requirements. Contractor/Tenderer also to comply with the safety requirements listed in the MAL construction safety manual.

## 9. EXECUTION PROCEDURE:

### 9.1 GENERAL PROCEDURE

1. Opening of end covers, cone, channel heads & dome cover and preserving the nuts, bolts, studs etc. properly. Cleaning of nut&bolts is in Contractor/Tenderers scope. Cleaning agent/solvent required for cleaning will be provided by MAL.

2. Boxing up of end covers, cone, channel heads & dome cover (including gasket cutting, studs cleaning, leak testing if required).

2.1 Cleaning mating faces of flanges thoroughly and box up the joint/heat exchangers with new gasket to make the joints leak tight.

2.2 Hot-bolting of the exchanger wherever required by Engineer-In-Charge.

3. Opening flange joints of piping & equipment's.

3.1 This also includes de-blinding (both tail & end blind), isolation of the equipment/line by proper blinding.

3.2 All level gauges/level trolls/stand pipes/thermo wells connected to equipment are to be dechoked, cleaned without any additional charge.

4. Boxing up flange joints of piping & equipments. This also includes blinding (both tail & end blind).

5. Dropping/Lowering of end covers, cone, channel heads, dome cover & pipe to ground/working floor.

6. Lifting of end covers, cone, channel heads, dome cover & pipe to original position from ground level/working floor.

7. Tube bundle pull out using tools and tackles of Contractor/Tenderer. Crane/ hydra required for the job will be provided by MAL. While opening the floating head tubes bundle, proper marking must be done on each part so as to avoid any damage to tube sheet and bundle while boxing up.

8. Air drying of tubes when cleaning is done by other agency or only air drying of tubes is to be done by Contractor/Tenderer.

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9. Water flushing of tubes when rodding/scrapping/hydrojetting is not required.

10. Lifting & shifting of equipment within battery limits.

10.1 Shifting of equipments out side the plant battery limit to anywhere in the complex.

11. Hose connections for steam, air, water, nitrogen etc. for purging, draining the systems as per the instructions of the Engineer-In-Charge and remove the same when instructed.

12. Normally standard cut gaskets will be supplied by MAL, however if required the Contractor/Tenderer shall cut the gaskets from gasket sheet, free of cost.

13. Cleaning of working place after completion of the jobs.

### **9.2 HYDROTEST OF FIXED TUBE/U-TUBE HEAT EXCHANGERS:**

1. To carry out hydrotesting on shell side and tube side. Thus two hydrotest shall be carried out for fixed head and U-tubes type exchangers.

2. In case of hydrotesting on tube side, leakage is detected through tubes during testing. Then the leaking tubes to be plugged by Contractor/Tenderer as per the instructions from Engineer-In-Charge. Required plugs will be supplied by MAL.

3. Fabrication of fittings required will be under vendors scope. Fittings will be of proper pressure rating and should be fabricated as per standards provided by MAL and instructions of Engineer incharge.

4. Pressure gauge required for hydrotest will be in vendors scope. Pressure gauge will be tested and certified. Pressure gauge testing will be witnessed by MAL process as well as mechanical engineer.

### **9.3 HYDROTEST OF FLOATING HEAD HEAT EXCHANGER**

In case of floating head type exchangers, the test rings shall be used for hydrotest on shell side to check leakage from individual tube and/or tube to tube sheet joints. Three hydrotest will have to be carried out for floating head type exchangers.

1. Fabrication of fittings required will be under vendors scope. Fittings will be of proper pressure rating and should be fabricated as per standards provided by MAL and instructions of Engineer in charge.

2. Pressure gauge required for hydrotest will be in vendors scope. Pressure gauge will be tested and certified. Pressure gauge testing will be witnessed by MAL process as well as mechanical engineer.

### **10. MODE OF MEASUREMENT:**

DROPPING OF EXCH DOME/END COVER -Job measurement will be inch diameter of the exchanger dome/cover to be opened.

BOXUP OF EXCH DOME/END COVE -Job measurement will be inch diameter of the exchanger dome/cover to be opened.

TUBE BUNDLE PULL OUT Job -measurement will be weight of the tube bundle pulled..

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TUBE BUNDLE BOXUP -Job measurement will be weight of the tube bundle to be boxed up.

**HYDROTEST OF EXCH TO PR 0-10 KG/M2**

Job measurement will be volume of the heat exchanger of which hydrotest is to be carried out. If hydrotest of shell side is carried out then only volume of shell side will be taken as measurement. Same is applicable for tube side also.

**HYDROTEST OF EXCH TO PR 10-30 KG/M2**

Job measurement will be volume of the heat exchanger of which hydrotest is to be carried out. If hydrotest of shell side is carried out then only volume of shell side will be taken as measurement. Same is applicable for tube side also.

**HYDROTEST OF EXCH TO PR 30-100 KG/M2**

Job measurement will be volume of the heat exchanger of which hydrotest is to be carried out. If hydrotest of shell side is carried out then only volume of shell side will be taken as measurement. Same is applicable for tube side also.

**HYDROTEST OF EXCH TO PR 100-200 KG/M2**

Job measurement will be volume of the heat exchanger of which hydrotest is to be carried out. If hydrotest of shell side is carried out then only volume of shell side will be taken as measurement. Same is applicable for tube side also.

**HYDROTEST OF EXCH TO PR 200-400 KG/M2**

Job measurement will be volume of the heat exchanger of which hydrotest is to be carried out. If hydrotest of shell side is carried out, then only volume of shell side will be taken as measurement. Same is applicable for tube side also.

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## Price Bid Format: As per Annexure "A"

Prices to be submitted for regular jobs as per Subject and Also % increase factor for Annual Shutdown jobs.

Planned Annual shutdowns will be informed to the Contractor / tenderer 20 days prior.

Note: -There will be no % increase will be given in pricing for Breakdown/ Emergency Shutdown. For this regular ARC pricing will be applicable.

Scaffolding / Hydra/ Farana / Crane will be provided by MAL, Wherever not mentioned in scope as per Annexure -A.

The services of Fabricator, Welder, Rigger, and Helper which are mentioned in this tender shall be used for other services than the specifically mentioned in this tender.

*Annexure A -Consists of Unit Name, Service Code, Short text of Service, Detail description of Service & UOM.*

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## Details of Job Scope

SN	Activity No	Service Details	Detail Description	UOM
1	1000000	CS/LTCS Pipe (SAW) Sch - 40	Fabrication & welding of CS/LTCS pipes (SAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
2	1000010	CS/LTCS Pipe (SAW) Sch - 160	Fabrication & welding of CS/LTCS pipes (SAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
3	1000011	CS/LTCS Pipe (SAW) above Sch-160	Fabrication & welding of CS/LTCS pipes (SAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
4	1000012	CS/LTCS Pipe (GTAW) Sch - 40	Fabrication & welding of CS/LTCS pipes (GTAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
5	1000013	CS/LTCS Pipe (GTAW) Sch - 80	Fabrication & welding of CS/LTCS pipes (GTAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
6	1000014	CS/LTCS Pipe (GTAW) Sch - 160	Fabrication & welding of CS/LTCS pipes (GTAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
7	1000015	CS/LTCS Pipe (GTAW) Above Sch - 160	Fabrication & welding of CS/LTCS pipes (GTAW). The scope of work,shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
8	1000016	SS Pipes 304/304L(GTAW) Sch - 40	Fabrication & welding of SS pipes 304/304L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND

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9	1000017	SS Pipes 304/304L(GTAW) Sch - 80	Fabrication & welding of SS pipes 304/304L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
10	1000018	SS Pipes 304/304L(GTAW) Sch - 160	Fabrication & welding of SS pipes 304/304L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
11	1000019	SS Pipes 304/304L(GTAW) above Sch-160	Fabrication & welding of SS pipes 304/304L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
12	1000020	SS 316/316L (GTAW) Sch - 40	Fabrication & welding of SS pipes 316/316L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
13	1000021	SS 316/316L (GTAW) Sch - 80	Fabrication & welding of SS pipes 316/316L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
14	1000022	SS 316/316L (GTAW) Sch - 160	Fabrication & welding of SS pipes 316/316L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
15	1000023	SS 316/316L (GTAW) above Sch -160	Fabrication & welding of SS pipes 316/316L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND

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16	1000024	SS 317/317L (GTAW) Sch - 40	Fabrication & welding of SS pipes 317/317L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
17	1000025	SS 317/317L (GTAW) Sch - 80	Fabrication & welding of SS pipes 317/317L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
18	1000026	SS 317/317L (GTAW) Sch - 160	Fabrication & welding of SS pipes 317/317L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
19	1000027	SS 317/317L (GTAW) above Sch -160	Fabrication & welding of SS pipes 317/317L (GTAW) with Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
20	1000028	SS 304/304L(GTAW) Sch - 40	Fabrication & welding of SS pipes 304/304L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
21	1000029	SS 304/304L(GTAW) Sch - 80	Fabrication & welding of SS pipes 304/304L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
22	1000030	SS 304/304L(GTAW) Sch - 160	Fabrication & welding of SS pipes 304/304L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND

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23	1000031	SS 304/304L(GTAW) above Sch - 160	Fabrication & welding of SS pipes 304/304L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
24	1000032	SS 316/316L (GTAW) Sch - 40	Fabrication & welding of SS pipes 316/316L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
25	1000033	SS 316/316L (GTAW) Sch - 80	Fabrication & welding of SS pipes 316/316L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
26	1000034	SS 316/316L (GTAW) Sch - 160	Fabrication & welding of SS pipes 316/316L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
27	1000035	SS 316/316L (GTAW) above Sch -160	Fabrication & welding of SS pipes 316/316L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
28	1000036	SS 317/317L (GTAW) Sch - 40	Fabrication & welding of SS pipes 317/317L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
29	1000037	SS 317/317L (GTAW) Sch - 80	Fabrication & welding of SS pipes 317/317L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND

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30	1000038	SS 317/317L (GTAW) Sch - 160	Fabrication & welding of SS pipes 317/317L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
31	1000039	SS 317/317L (GTAW) above Sch -160	Fabrication & welding of SS pipes 317/317L (GTAW) without Argon,purging from inside. The scope of work shall include transportation,of pipes from Stores to worksite, cutting of pipes, edge preparation,of the pipes, making fit up and carrying out welding and necessary,dressing. Returning of balance materials to the stores. For,fabrication 20% extra will be paid on applicable rate.	IND
32	1000040	SS 304/316/317(SAW) Sch - 40	Fabrication & welding of SS pipes (SAW) SS 304/316/317. The scope,of work shall include transportation of pipes from Stores to,worksite, cutting of pipes, edge preparation of the pipes, making,fit up and carrying out welding and necessary dressing. Returning,of balance materials to the stores. For mitre fabrication 20% extra,will be paid on applicable rate.	IND
33	1000041	SS 304/316/317(SAW) Sch - 80	Fabrication & welding of SS pipes (SAW) SS 304/316/317. The scope,of work shall include transportation of pipes from Stores to,worksite, cutting of pipes, edge preparation of the pipes, making,fit up and carrying out welding and necessary dressing. Returning,of balance materials to the stores. For mitre fabrication 20% extra,will be paid on applicable rate.	IND
34	1000042	SS 304/316/317(SAW) Sch - 160	Fabrication & welding of SS pipes (SAW) SS 304/316/317. The scope,of work shall include transportation of pipes from Stores to,worksite, cutting of pipes, edge preparation of the pipes, making,fit up and carrying out welding and necessary dressing. Returning,of balance materials to the stores. For mitre fabrication 20% extra,will be paid on applicable rate.	IND
35	1000043	SS 304/316/317(SAW) above Sch - 160	Fabrication & welding of SS pipes (SAW) SS 304/316/317. The scope,of work shall include transportation of pipes from Stores to,worksite, cutting of pipes, edge preparation of the pipes, making,fit up and carrying out welding and necessary dressing. Returning,of balance materials to the stores. For mitre fabrication 20% extra,will be paid on applicable rate.	IND
36	1000044	CS To SS (ARC/TIG) Sch - 40	Fabrication & welding of CS to SS pipes (ARC/TIG). The scope of,work shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
37	1000045	CS To SS (ARC/TIG) Sch - 80	Fabrication & welding of CS to SS pipes (ARC/TIG). The scope of,work shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND

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38	1000046	CS To SS (ARC/TIG) Sch - 160	Fabrication & welding of CS to SS pipes (ARC/TIG). The scope of,work shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
39	1000047	CS To SS (ARC/TIG) above Sch - 160	Fabrication & welding of CS to SS pipes (ARC/TIG). The scope of,work shall include transportation of pipes from Stores to worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND
40	1000048	CS rootrun TIG other by ARC Sch-40	Fabrication & welding of CS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
41	1000049	CS rootrun TIG other by ARC Sch-80	Fabrication & welding of CS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
42	1000050	CS rootrun TIG other by ARC Sch-160	Fabrication & welding of CS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
43	1000051	CS rootrun TIG other ARC above Sch-160	Fabrication & welding of CS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
44	1000052	SS root run TIG other by ARC Sch-40	Fabrication & welding of SS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
45	1000053	SS root run TIG other by ARC Sch-80	Fabrication & welding of SS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND

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46	1000054	SS rootrun TIG other by ARC Sch-160	Fabrication & welding of SS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
47	1000055	SS rootrun TIG other ARC above Sch-160	Fabrication & welding of SS pipes by root run TIG and other runs,by ARC. The scope of work shall include transportation of pipes,from Stores to worksite, cutting of pipes, edge preparation of the,pipes, making fit up and carrying out welding and necessary,dressing. Returning of balancematerials to the stores. For mitre,fabrication 20% extra will be paid on applicable rate.	IND
48	1000056	CS CUTTING 0 to 6 mm thk +(-) 0.5 mm	Gas cutting / hacksaw cutting of CS pipe lines and shifting to,required place as per Job Co-ordinator. The scope of job includes,dismantling of existing pipe lines or carrying out modification in,the pipe lines. The cut of materials shall be transported back as,per instruction of Job Co-ordinator. The scope also include opening,of flange joints, removal of supports and removal of valve, if any.	INM
49	1000057	CS CUTTING 6.5 to 10 mm thk +(-) 0.5 mm	Gas cutting / hacksaw cutting of CS pipe lines and shifting to,required place as per Job Co-ordinator. The scope of job includes,dismantling of existing pipe lines or carrying out modification in,the pipe lines. The cut of materials shall be transported back as,per instruction of Job Co-ordinator. The scope also include opening,of flange joints, removal of supports and removal of valve, if any.	INM
50	1000058	CS CUTTING 10 to 15 mm thk +(-) 0.5 mm	Gas cutting / hacksaw cutting of CS pipe lines and shifting to,required place as per Job Co-ordinator. The scope of job includes,dismantling of existing pipe lines or carrying out modification in,the pipe lines. The cut of materials shall be transported back as,per instruction of Job Co-ordinator. The scope also include opening,of flange joints, removal of supports and removal of valve, if any.	INM
51	1000059	CS CUTTING 15 to 20 mm thk +(-) 0.5 mm	Gas cutting / hacksaw cutting of CS pipe lines and shifting to,required place as per Job Co-ordinator. The scope of job includes,dismantling of existing pipe lines or carrying out modification in,the pipe lines. The cut of materials shall be transported back as,per instruction of Job Co-ordinator. The scope also include opening,of flange joints, removal of supports and removal of valve, if any.	INM
52	1000060	PIPE ERECTION UPTO 0 to 6 MTR HT.	Pipe erection. The scope of job includes for handling of pipes from,fabricator's workshop to erection site and erecting the pipes in,position with permanent support which also includes boxing up of,flanges and installation of valves, if any.	INM
53	1000061	PIPE ERECTION UPTO 6 to 10 MTR HT.	Pipe erection. The scope of job includes for handling of pipes from,fabricator's workshop to erection site and erecting the pipes in,position with permanent support which also includes boxing up of,flanges and installation of valves, if any.	INM
54	1000062	PIPE ERECTION ABOVE 10 MTR HT.	Pipe erection. The scope of job includes for handling of pipes from,fabricator's workshop to erection site and erecting the pipes in,position with permanent support which also includes boxing up of,flanges and installation of valves, if any.	INM

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55	1000063	VALVE REMOVAL & HANDLING 6MTR HT 150 #	Valve removal and handling upto 6 M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
56	1000064	VALVE REMOVAL & HANDLING 6MTR HT 300#	Valve removal and handling upto 6 M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
57	1000065	IBR VALVE REMOVAL & HANDLING 6MTR HT 600	Valve removal and handling upto 6 M height above ground level on IBR,line. The scope of job includes dismantling of flanges, removal of, valves and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the scope.,If valves are handled by Crane of Lift, then rate upto 6M will be,applicable and no extra charge will be payable.	IND
58	1000066	VALVE REMOVAL & HANDLING 6MTR HT 900#	Valve removal and handling upto 6 M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
59	1000067	VALVE REMOVAL & HANDLING 6MTR HT 2500#	Valve removal and handling upto 6 M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
60	1000068	VALVE REMOVAL & HANDLING 12MTR HT 150#	Valve removal and handling upto 12M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
61	1000069	VALVE REMOVAL & HANDLING 12MTR HT 300#	Valve removal and handling upto 12M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND

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62	1000070	VALVE REMOVAL & HANDLING 12MTR HT 600#	Valve removal and handling upto 12M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
63	1000071	VALVE REMOVAL & HANDLING 12MTR HT 1500#	Valve removal and handling upto 12M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
64	1000072	VALVE REMOVAL & HANDLING 12MTR HT 2500#	Valve removal and handling upto 12M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
65	1000073	VALVE REMOVAL & HANDLING 18MTR HT 150#	Valve removal and handling upto 18M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
66	1000074	VALVE REMOVAL & HANDLING 18MTR HT 300#	Valve removal and handling upto 18M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
67	1000075	VALVE REMOVAL & HANDLING 18MTR HT 600#	Valve removal and handling upto 18M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
68	1000076	VALVE REMOVAL & HANDLING 18MTR HT 1500#	Valve removal and handling upto 18M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND

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69	1000077	VALVE REMOVAL & HANDLING 18MTR HT 2500#	Valve removal and handling upto 18M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
70	1000078	VALVE REMOVAL & HANDLING 25MTR HT 150#	Valve removal and handling upto 25M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
71	1000079	VALVE REMOVAL & HANDLING 25MTR HT 300#	Valve removal and handling upto 25M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
72	1000080	VALVE REMOVAL & HANDLING 25MTR HT 600#	Valve removal and handling upto 25M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
73	1000081	VALVE REMOVAL & HANDLING 25MTR HT 1500#	Valve removal and handling upto 25M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
74	1000082	VALVE REMOVAL & HANDLING 25MTR HT 2500#	Valve removal and handling upto 25M height above ground level.,The scope of job includes dismantling of flanges, removal of valves,and transporting it from the site as per instruction of Job,co-ordinator. Opening of flanges will be included in the scope. If,cutting of bolts is required, the same will be inclusive in the,scope. If valves are handled by Crane of Lift, then rate upto 6M,will be applicable and no extra charge will be payable.	IND
75	1000083	Vlv Handl & Ere Upto 150#	Valve handling and erection. The scope of job includes transportation,of valves from stores to worksite. Cleaning of studs & bolts and,applying lubricants to it. Erection of valves in designated place and,boxing up of flanges with new gaskets. Boxing up of flanges is,included in the scope. Hot tightening of flange joints to be done,after plant start-up.	IND
76	1000084	Vlv Handl & Ere Upto 300#	Valve handling and erection. The scope of job includes transportation,of valves from stores to worksite. Cleaning of studs & bolts and,applying lubricants to it. Erection of valves in designated place and,boxing up of flanges with new gaskets. Boxing up of flanges is,included in the scope. Hot tightening of flange joints to be done,after plant start-up.	IND

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77	1000085	Vlv Handl & Ere Upto 600#	Valve handling and erection. The scope of job includes transportation,of valves from stores to worksite. Cleaning of studs & bolts and,applying lubricants to it. Erection of valves in designated place and,boxing up of flanges with new gaskets. Boxing up of flanges is,included in the scope. Hot tightening of flange joints to be done,after plant start-up.	IND
78	1000086	Vlv Handl & Ere Upto 1500#	Valve handling and erection. The scope of job includes transportation,of valves from stores to worksite. Cleaning of studs & bolts and,applying lubricants to it. Erection of valves in designated place and,boxing up of flanges with new gaskets. Boxing up of flanges is,included in the scope. Hot tightening of flange joints to be done,after plant start-up.	IND
79	1000087	Vlv Handl & Ere Upto 2500#	Valve handling and erection. The scope of job includes transportation,of valves from stores to worksite. Cleaning of studs & bolts and,applying lubricants to it. Erection of valves in designated place and,boxing up of flanges with new gaskets. Boxing up of flanges is,included in the scope. Hot tightening of flange joints to be done,after plant start-up.	IND
80	1000088	OPEN & BOX UP FLANGE Upto 150#	Making or opening of flange joints (fixing/removing gaskets and/or,blinds.	IND
81	1000089	OPEN & BOX UP FLANGE Upto 300#	Making or opening of flange joints (fixing/removing gaskets and/or,blinds.	IND
82	1000090	OPEN & BOX UP FLANGE Upto 600#	Making or opening of flange joints (fixing/removing gaskets and/or,blinds.	IND
83	1000091	OPEN & BOX UP FLANGE Upto 1500#	Making or opening of flange joints (fixing/removing gaskets and/or,blinds.	IND
84	1000092	OPEN & BOX UP FLANGE Upto 2500#	Making or opening of flange joints (fixing/removing gaskets and/or,blinds.	IND
85	1000093	Fab & Erection of structure Upto 100 Kg	Fabrication and erection of structural includes transportation of,structural material from stores/yard to worksite. Fabrication and,erection to be done as per the drawing or requirement & returning,the balance material to stores. The fabricated items shall be,measured and converted to weight basis for billing purpose. If the,structure is made up of pipes, it will also be paid on the basis of,weight only.	KG
86	1000094	Fab & Erection of structure above 100 Kg	Fabrication and erection of structural includes transportation of,structural material from stores/yard to worksite. Fabrication and,erection to be done as per the drawing or requirement & returning,the balance material to stores. The fabricated items shall be,measured and converted to weight basis for billing purpose. If the,structure is made up of pipes, it will also be paid on the basis of,weight only.	KG
87	1000095	Dismantling of structurals/handling	Dismantling of structurals by Gas cutting, stacking & handling,within factory premises to pre-determined place.	KG
88	1000097	SS Plate cutting Upto 6 mm thk	Cutting of SS plates and pipes with ARC/hacksaw grinding.	INL
89	1000098	SS Plate cutting Above 6 to 10	Cutting of SS plates and pipes with ARC/hacksaw grinding.	INL

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		mm thk		
90	1000099	SS Plate cutting Above 10 mm thk	Cutting of SS plates and pipes with ARC/hacksaw grinding.	INL
91	1000100	Remove & install safety valve Upto 150#	Removal, transporting, handling during testing and reinstallation,of safety valves at site (including during shutdown). The scope,includes opening of flanges, removal of safety valve, transporting,to test bench, handling during testing and after calibration is over,transporting it back to site, re-installation of it and boxing-up of,inlet / outlet flanges with properly cleaned and lubricated stud/bolt,Opening and box-up of flanges is included in the scope. Pricing for,this job to be based on inlet pipeline size and rating.	IND
92	1000101	Remove & install safety valve Upto 300#	Removal, transporting, handling during testing and reinstallation,of safety valves at site (including during shutdown). The scope,includes opening of flanges, removal of safety valve, transporting,to test bench, handling during testing and after calibration is over,transporting it back to site, re-installation of it and boxing-up of,inlet / outlet flanges with properly cleaned and lubricated stud/bolt,Opening and box-up of flanges is included in the scope. Pricing for,this job to be based on inlet pipeline size and rating.	IND
93	1000102	Remove & install safety valve Upto 600#	Removal, transporting, handling during testing and reinstallation,of safety valves at site (including during shutdown). The scope,includes opening of flanges, removal of safety valve, transporting,to test bench, handling during testing and after calibration is over,transporting it back to site, re-installation of it and boxing-up of,inlet / outlet flanges with properly cleaned and lubricated stud/bolt,Opening and box-up of flanges is included in the scope. Pricing for,this job to be based on inlet pipeline size and rating.	IND
94	1000103	Remove & install safety valve Upto 1500#	Removal, transporting, handling during testing and reinstallation,of safety valves at site (including during shutdown). The scope,includes opening of flanges, removal of safety valve, transporting,to test bench, handling during testing and after calibration is over,transporting it back to site, re-installation of it and boxing-up of,inlet / outlet flanges with properly cleaned and lubricated stud/bolt,Opening and box-up of flanges is included in the scope. Pricing for,this job to be based on inlet pipeline size and rating.	IND
95	1000104	Remov & install safety valve above 2500#	Removal, transporting, handling during testing and reinstallation,of safety valves at site (including during shutdown). The scope,includes opening of flanges, removal of safety valve, transporting,to test bench, handling during testing and after calibration is over,transporting it back to site, re-installation of it and boxing-up of,inlet / outlet flanges with properly cleaned and lubricated stud/bolt,Opening and box-up of flanges is included in the scope. Pricing for,this job to be based on inlet pipeline size and rating.	IND
96	1000106	Repairing of HDPE piping.	Repairing of HDPE piping. Cutting is included in the scope of job.	IND

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97	1000107	Remove & install C/V Upto 150#	Removal of control valves with actuator and shifting the same to workshop and re-installation including flange and flange box-up.,The scope of job includes opening of flanges, removal of control, valve, transporting it to workshop and back to the site after repair, and boxing up of flanges. Opening & boxing up of flanges is part of, the scope of job.	IND
98	1000108	Remove & install C/V Upto 300#	Removal of control valves with actuator and shifting the same to workshop and re-installation including flange and flange box-up.,The scope of job includes opening of flanges, removal of control, valve, transporting it to workshop and back to the site after repair, and boxing up of flanges. Opening & boxing up of flanges is part of, the scope of job.	IND
99	1000109	Remove & install C/V Upto 600#	Removal of control valves with actuator and shifting the same to workshop and re-installation including flange and flange box-up.,The scope of job includes opening of flanges, removal of control, valve, transporting it to workshop and back to the site after repair, and boxing up of flanges. Opening & boxing up of flanges is part of, the scope of job.	IND
100	1000110	Remove & install C/V Upto 1500#	Removal of control valves with actuator and shifting the same to workshop and re-installation including flange and flange box-up.,The scope of job includes opening of flanges, removal of control, valve, transporting it to workshop and back to the site after repair, and boxing up of flanges. Opening & boxing up of flanges is part of, the scope of job.	IND
101	1000111	Remove & install C/V 1500# to 2500#	Removal of control valves with actuator and shifting the same to workshop and re-installation including flange and flange box-up.,The scope of job includes opening of flanges, removal of control, valve, transporting it to workshop and back to the site after repair, and boxing up of flanges. Opening & boxing up of flanges is part of, the scope of job.	IND
102	1000112	Fabrication & fixing of railing	Fabrication and fixing of railing around platform or staircase, using 1-1/4" 1-1/2" pipe dia and toe plate size - 6mm x 75mm x flat, The scope of work includes transportation of material from to and, from Stores. Cutting and welding of pipes and plates to fabricate, railing and erection of railing in position. The pricing for this job, will be on the basis of running meter of railing.	RM
103	1000113	Hydrotesting of P/L Upto 40 Kg/cm <sup>2</sup>	Hydrotesting of pipeline. The scope of work includes insertion of, blinds, making pump connection, installation of pressure gauge, and restoring the line after hydrotest. Opening and box-up of flange, is part of the scope of job. Testing pump is to be arranged by the, contractor.	INM
104	1000114	Hydrotesting of P/L 40 - 100 Kg/cm <sup>3</sup>	Hydrotesting of pipeline. The scope of work includes insertion of, blinds, making pump connection, installation of pressure gauge, and restoring the line after hydrotest. Opening and box-up of flange, is part of the scope of job. Testing pump is to be arranged by the, contractor.	INM
105	1000115	Hydrotesting of P/L 100 - 200 Kg/cm <sup>3</sup>	Hydrotesting of pipeline. The scope of work includes insertion of, blinds, making pump connection, installation of pressure gauge, and restoring the line after hydrotest. Opening and box-up of flange, is part of the scope of job. Testing pump is to be arranged by the, contractor.	INM
106	1000116	Hydrotesting of P/L Above 200 Kg/cm <sup>3</sup>	Hydrotesting of pipeline. The scope of work includes insertion of, blinds, making pump connection, installation of pressure gauge, and restoring the line after hydrotest. Opening and box-up of flange, is part of the scope of job. Testing pump is to be arranged by the, contractor.	INM

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107	1000117	Hydrotesting of Eqp Upto 40 Kg/cm <sup>2</sup>	Hydrotesting of equipment including bliding and making necessary, arrangement for deblinding the same after hydrotesting. The scope of, work includes insertion of blinds, making pump connection,, installation of pressure gauge & restoring the line after hydrotest., Opening and box-up of flange is part of the scope of job. Testing, pump is to be arranged by the contractor.	M3
108	1000118	Hydrotesting of Eqp 40 - 100 Kg/cm <sup>3</sup>	Hydrotesting of equipment including bliding and making necessary, arrangement for deblinding the same after hydrotesting. The scope of, work includes insertion of blinds, making pump connection,, installation of pressure gauge & restoring the line after hydrotest., Opening and box-up of flange is part of the scope of job. Testing, pump is to be arranged by the contractor.	M3
109	1000119	Hydrotesting of Eqp 100 - 200 Kg/cm <sup>3</sup>	Hydrotesting of equipment including bliding and making necessary, arrangement for deblinding the same after hydrotesting. The scope of, work includes insertion of blinds, making pump connection,, installation of pressure gauge & restoring the line after hydrotest., Opening and box-up of flange is part of the scope of job. Testing, pump is to be arranged by the contractor.	M3
110	1000120	Hydrotesting of Eqp Above 200 Kg/cm <sup>3</sup>	Hydrotesting of equipment including bliding and making necessary, arrangement for deblinding the same after hydrotesting. The scope of, work includes insertion of blinds, making pump connection,, installation of pressure gauge & restoring the line after hydrotest., Opening and box-up of flange is part of the scope of job. Testing, pump is to be arranged by the contractor.	M3
111	1000121	CS Gas Cutting Upto 6 mm thk.	Gas cutting of only CS material.(The consumables required for the, job is in vendor's scope)	INL
112	1000122	CS Gas Cutting 7 mm to 10 mm thk.	Gas cutting of only CS material.(The consumables required for the, job is in vendor's scope)	INL
113	1000123	CS Gas Cutting 11mm to 15 mm thk.	Gas cutting of only CS material.(The consumables required for the, job is in vendor's scope)	INL
114	1000124	CS Gas Cutting Above 15 mm thk.	Gas cutting of only CS material.(The consumables required for the, job is in vendor's scope)	INL
115	1000125	Erec of Eqpt upto 10 MT	Erection of equipment including of equipment, erection at site,, leveling of equipment alignment of equipment etc. (crane will, be provided by DFPCL). The scope of work includes shifting, of equipment, installation of equipment, levelling and alignmnet of, equipment. Boxing up of all the connecting flanges, hot tightening, of all the connecting flanges, any other interconnected job and, required scaffolding for the job is part of the scope of job., (Crane will be provided by the company, if required)	MT

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116	1000126	Erec of Eqpt above 10 MT	Erection of equipment including of equipment, erection at site,,leveling of equipment alignment of equipment etc. (crane will,be provided by DFPCCL). The scope of work includes shifting,of equipment, installation of equipment, levelling and alignmnet of,equipment. Boxing up of all the connecting flanges, hot tightening,of all the connecting flanges, any other interconnected job and,required scaffolding for the job is part of the scope of job.,(Crane will be provided by the company, if required)	MT
117	1000127	Fabricator (In Shift)	Supply of manpower for different categories in normal duty,(Gen./first/second/third)shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
118	1000128	Welder (Argon & Arc) (In Shift)	Supply of manpower for different categories in normal duty,(Gen./first/second/third)shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
119	1000129	Rigger (In Shift)	Supply of manpower for different categories in normal duty,(Gen./first/second/third)shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
120	1000130	Helper (In Shift)	Supply of manpower for different categories in normal duty,(Gen./first/second/third)shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
121	1000131	Rigging foreman (In Shift)	Supply of manpower for different categories in normal duty,(Gen./first/second/third)shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
122	1000133	Fabricator (Bet 5.30PM-9AM)	Supply of manpower for different categories (in between 5.30 PM,to 9.00 AM next day) shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
123	1000134	Welder (Argon & Arc)(Bet 5.30PM-9AM)	Supply of manpower for different categories (in between 5.30 PM,to 9.00 AM next day) shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
124	1000135	Rigger (Bet 5.30PM-9AM)	Supply of manpower for different categories (in between 5.30 PM,to 9.00 AM next day) shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
125	1000136	Helper (Bet 5.30PM-9AM)	Supply of manpower for different categories (in between 5.30 PM,to 9.00 AM next day) shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
126	1000137	Rigging foreman (Bet 5.30PM-9AM)	Supply of manpower for different categories (in between 5.30 PM,to 9.00 AM next day) shall include light tools and personal,safety gadgets like helmets, safety shoes, safety goggles,and safety belts of approved quality.	PHP
127	1000139	Hot tightening of flanges.	Hot tightening of flanges. (Tools & tackles in vendor's scope)	IND
128	1000145	Opening/box up Converter Cone of WNA	Opening and box up of Converter Cone of WNA I / II plant during,catalyst change. The scope of work includes necessary scaffolding,for the same, opening of inlet flange and main flange of converter,cone, removal of catalyst basket and bring it to ground floor,,providing assistance for removal of catalyst, boxing up of catalyst,basket, boxing up of convertor cone.	LE

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129	1000146	Rem / Box-up of Filter Candle Assly.	Removal and box up of Filter Candle Assembly of Discharge Air Filter, and Vapour Ammonia Filter. The scope of work includes removal of, top dome of both Discharge Air Filter and Vapour Ammonia Filter, Removal of filter candle assembly of both and putting it into, cleaning tank. Bringing new filter candle assembly of both and, installation of the same. Boxing up of domes of both and hot, tightening of all the connecting flanges after plant start-up.	LE
130	1000147	Replacement of Platinum Filter Cage	Replacement of Platinum Filter Cage. The scope of work includes, necessary scaffolding, opening of inlet flange and main flange of, Platinum Filter and removal of dome. Removal of cage and bringing, it to ground floor and installation of new cage. Installation of, dome and boxing up of main flange and inlet flange. Shifting of, removed cage to scrap yard.	LE
131	1000149	Rem/Instl Amm Air Mixer/Gas.Clr.Cdr.	Removal and installation of Ammonia Air Mixer / Gas Cooler, Condenser of WNA Plant. The scope of work includes necessary, scaffolding, opening of all flanges, removal of complete Ammonia, Air Mixer & keeping it at the required place. Boxing up of Ammonia, Air Mixer after repair and cleaning & boxing up of all connecting, flanges. Crane will be provided by the company.	LE
132	1000487	Dismt & offering insp Gt/Gl Valve 1-1/2	For reconditioning of Gate/Globe Valve ( 150# C.S ) -, Dismantling of complete valve of the mentioned size, and offering for open inspection	EA
133	1000489	Dismt & offering insp Gt/Gl Valve 3"	For reconditioning of Gate/Globe Valve ( 150# C.S ) -, Dismantling of complete valve of the mentioned size, and offering for open inspection	EA
134	1000492	Dismt & offering insp Gt/Gl Valve 8"	For reconditioning of Gate/Globe Valve ( 150# C.S ) -, Dismantling of complete valve of the mentioned size, and offering for open inspection	EA
138	1001946	Dismt & offering insp Gt/Gl Valve 2"	Dismtle of complete V/Vs & offer for open inspc.of 300# CS V/V	EA
139	1001948	Dismt & offering insp Gt/Gl Valve 4"	Dismtle of complete V/Vs & offer for open inspc.of 300# CS V/V	EA
140	1001949	Dismt & offering insp Gt/Gl Valve 6"	Dismtle of complete V/Vs & offer for open inspc.of 300# CS V/V	EA
141	1002086	Dismt & offering insp Gt/Gl Valve 2"	Dismtle of complete V/Vs & offer for open inspc.of 600# CS V/V	EA
142	1002088	Dismt & offering insp Gt/Gl Valve 4"	Dismtle of complete V/Vs & offer for open inspc.of 600# CS V/V	EA
143	1002089	Dismt & offering insp Gt/Gl Valve 6"	Dismtle of complete V/Vs & offer for open inspc.of 600# CS V/V	EA
144	1002090	Dismt & offering insp Gt/Gl Valve 8"	Dismtle of complete V/Vs & offer for open inspc.of 600# CS V/V	EA

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145	1003200	SCAFF ELEV 0-15M, WITH CONT MAT	<p>Scaffolding erection from ground up to 15 mtr height.,Detailed scope of work:;Area of allocation : All DFPCL plants located in TALOJA,1. Providing and erection of scaffolding from ground up to 15 mtr height,locations using 1-1/2 inch NB steel tubular heavy class pipes of grade,YSt 22 with suitable clamping arrangement.,2. Provision of steel gratings, ladders and platforms with handrails,,toe guards and base plates at the required locations.,3.Removal of the steel gratings, scaffolding pipes and all other,scaffolding materials on completion of the job.,4. The job includes provision of all required tools and tackles,lifting,arrangements like chain pulley blocks, all consumables.,5.Qualified, experienced and trained supervision and labour,,6. Mobilizing and demobilizing scaffolding material and all necessary,required accessories, tools and tackles from contractor's scope.,SPCIFICATIONS, CODES AND STANDARDS:;The entire scope of services shall confirm to the following referred,specifications, codes and standards and instructions of the EIC.,IS 2750 : Steel scaffolds,IS 1161 : Specification for steel tubes for structural purposes,IS 1570 (Part I): Schedule of wrought steel for general engineering,purposes,IS 4014 : Steel tubular scaffolds,IS 3696 : Scaffolding safety codes,In addition to the above, specific HSE and service execution,specifications and standards may be advised to the contractors by the,EIC.Site specific procedure is listed below,Contractor supplied materials:;The following materials shall be supplied by the contractor,All scaffolding material ,All accessories for scaffolding.,All tools and tackles required for the performance of the services,All equipment and accessories required for material handling,/ shifting / storing.,All PPE required for the contractor workmen and staff like,dust masks,safety body harness, safety belt, ladder, safety shoes,,helmet, hand gloves, safety goggles, any other PPE, rain gears,,overalls, etc.</p>	M3
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146	1003202	SCAFF ELEV 15-30M, WITH CONT MAT	<p>Scaffolding erection from 15 mtr ht to 30 mtr ht.,Detailed scope of work:,Area of allocation : All DFPC plants located in TALOJA,Providing and erection of scaffolding from 15 mtr ht to 30 mtr ht.,Using 1-1/2 inch NB steel tubular heavy class pipes of grade,YSt 22 with suitable clamping arrangement.,2. Provision of steel gratings, ladders and platforms with handrails,,toe guards and base plates at the required locations.,3.Removal of the steel gratings, scaffolding pipes and all other,scaffolding materials on completion of the job.,4. The job includes provision of all required tools and tackles,,lifting arrangements like chain pulley blocks, all consumables.,5.Qualified, experienced and trained supervision and labour,,6. Mobilizing and demobilizing scaffolding material and all necessary,required accessories, tools and tackles from contractor's scope.,SPECIFICATIONS, CODES AND STANDARDS:,The entire scope of services shall confirm to the following referred,specifications, codes and standards and instructions of the EIC.,IS 2750 : Steel scaffolds,IS 1161 : Specification for steel tubes for structural purposes,IS 1570 (Part I): Schedule of wrought steel for general engineering,purposes,IS 4014 : Steel tubular scaffolds,IS 3696 : Scaffolding safety codes,In addition to the above, specific HSE and service execution,specifications and standards may be advised to the contractors by the,EIC.Site specific procedure is listed below,Contractor supplied materials:,The following materials shall be supplied by the contractor,All scaffolding material ,All accessories for scaffolding.,All tools and tackles required for the performance of the services,All equipment and accessories required for material handling,/ shifting / storing.,All PPE required for the contractor workmen and staff like,dust masks,safety body harness, safety belt, ladder, safety shoes,,helmet, hand gloves, safety goggles, any other PPE, rain gears,,overalls, etc.</p>	M3
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147	1003204	SCAFF ELEV 30-45M, WITH CONT MAT	<p>Scaffolding erection from 30 mtr ht to 45 mtr ht, Detailed scope of work:, Area of allocation : All DFPCPL plants located in TALOJA, Providing and erection of scaffolding from 30 mtr ht. to 45 mtr ht., Using 1-1/2 inch NB steel tubular heavy class pipes of grade, YSt 22 with suitable clamping arrangement., 2. Provision of steel gratings, ladders and platforms with handrails,, toe guards and base plates at the required locations., 3. Removal of the steel gratings, scaffolding pipes and all other, scaffolding materials on completion of the job., 4. The job includes provision of all required tools and tackles,, lifting arrangements like chain pulley blocks, all consumables., 5. Qualified, experienced and trained supervision and labour,, 6. Mobilizing and demobilizing scaffolding material and all necessary, required accessories, tools and tackles from contractor's scope., SPECIFICATIONS, CODES AND STANDARDS:, The entire scope of services shall confirm to the following referred, specifications, codes and standards and instructions of the EIC., IS 2750 : Steel scaffolds, IS 1161 : Specification for steel tubes for structural purposes, IS 1570 (Part I): Schedule of wrought steel for general engineering, purposes, IS 4014 : Steel tubular scaffolds, IS 3696 : Scaffolding safety codes, In addition to the above, specific HSE and service execution, specifications and standards may be advised to the contractors by the, EIC. Site specific procedure is listed below, Contractor supplied materials:, The following materials shall be supplied by the contractor, All scaffolding material , All accessories for scaffolding., All tools and tackles required for the performance of the services, All equipment and accessories required for material handling, / shifting / storing., All PPE required for the contractor workmen and staff like, dust masks, safety body harness, safety belt, ladder, safety shoes,, helmet, hand gloves, safety goggles, any other PPE, rain gears,, overalls, etc.</p>	M3
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***The participating company's declaration:***

***I/We confirm having accepted all the terms as mentioned above.***

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***(Company name, seal and signature of authorized person with Designation)***

148	1003208	SCAFF INSIDE VESSEL WITH CONT MAT	<p>Scaffolding erection inside the vessel.,Detailed scope of work:,Area of allocation : All DFPCL plants located in TALOJA,Providing and erection of scaffolding inside vessel,Scaffolding erection inside the vessel.,Detailed scope of work:,Area of allocation : All DFPCL plants located in TALOJA,1.Providing and erection of scaffolding inside vessel using 1-1/2 inch,NB steel tubular heavy class pipes of grade YSt 22 with suitable,clamping arrangement.,2. Provision of steel gratings, ladders and platforms with handrails,,toe guards and base plates at the required locations.,3. Removal of the steel gratings, scaffolding pipes and all other,scaffolding materials on completion of the job.,4. The job includes provision of all required tools and tackles,lifting,arrangements like chain pulley blocks, all consumables.,5.Qualified, experienced and trained supervision and labour,,6. Mobilizing and demobilizing scaffolding material and all necessary,required accessories, tools and tackles from contractor's scope.,SPECIFICATIONS, CODES AND STANDARDS:,The entire scope of services shall confirm to the following referred,specifications, codes and standards and instructions of the EIC.,IS 2750 : Steel scaffolds,IS 1161 : Specification for steel tubes for structural purposes,IS 1570 (Part I): Schedule of wrought steel for general engineering,purposes,IS 4014 : Steel tubular scaffolds,IS 3696 : Scaffolding safety codes,In addition to the above, specific HSE and service execution,specifications and standards may be advised to the contractors by the,EIC.Site specific procedure is listed below,Contractor supplied materials:,The following materials shall be supplied by the contractor,All scaffolding material ,All accessories for scaffolding.,All tools and tackles required for the performance of the services,All equipment and accessories required for material handling,/ shifting / storing.,All PPE required for the contractor workmen and staff like,dust masks,safety body harness, safety belt, ladder, safety shoes,,helmet, hand gloves, safety goggles, any other PPE, rain gears,,overalls, etc.</p>	M3
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149	1003210	SCAFF INSIDE COOLING TOWER WITH CONT MAT	Scaffolding erection inside cooling tower.,Detailed scope of work:,Area of allocation : All DFPC plants located in TALOJA,1.Providing and erection of scaffolding inside cooling tower using 1-1/2,inch,NB steel tubular heavy class pipes of grade YSt 22 with suitable,clamping arrangement.,2. Provision of steel gratings, ladders and platforms with handrails,,toe guards and base plates at the required locations.,3.Removal of the steel gratings, scaffolding pipes and all other,scaffolding materials on completion of the job.,4. The job includes provision of all required tools and tackles,lifting,arrangements like chain pulley blocks, all consumables.,5.Qualified, experienced and trained supervision and labour,,6. Mobilizing and demobilizing scaffolding material and all necessary,required accessories, tools and tackles from contractor's scope.,SPCIFICATIONS, CODES AND STANDARDS:,The entire scope of services shall confirm to the following referred,specifications, codes and standards and instructions of the EIC.,IS 2750 : Steel scaffolds,IS 1161 : Specification for steel tubes for structural purposes,IS 1570 (Part I): Schedule of wrought steel for general engineering,purposes,IS 4014 : Steel tubular scaffolds,IS 3696 : Scaffolding safety codes,In addition to the above, specific HSE and service execution,specifications and standards may be advised to the contractors by the,EIC.Site specific procedure is listed below,Contractor supplied materials:,The following materials shall be supplied by the contractor,All scaffolding material ,All accessories for scaffolding.,All tools and tackles required for the performance of the services,All equipment and accessories required for material handling,/ shifting / storing.,All PPE required for the contractor workmen and staff like,dust masks,safety body harness, safety belt, ladder, safety shoes,,helmet, hand gloves, safety goggles, any other PPE, rain gears,,overalls, etc.	M2
150	1003300	CW PUMP STRAINER CLEAN	SCOPE OF WORK:- 1) Opening of 32"dia. flanges ( 2 Nos.) 2) Opening of,36" dia.flanges ( 2 Nos.) 3) Removal of spool piece. 4) Removal of,strainer for cleaning. 5) Box up of 32"dia. flanges ( 2 Nos.) 6) Box up,of 36" dia.flanges ( 2 Nos.) CONTRACTORS SCOPE: 1) Contractor to,maintain its supervisor at site for the job when ever their activity is,in progress. 2) The supervisor shall coordinate with DFPC engineer for ,job details and further problems associated with jobs. 3) Arrange for,all the necessary manpower required for the job. 4) Contractor shall,arrange all tools <> tackles required for job. 5)Scaffolding,required shall be in contractors scope. TIME PERIOD : Job to be,carried on round the clock basis till the job is completed and certified,by DFPC. SAFETY : All persons shall work under full safety <>,precautions using safety helmets, safety belts, safety shoes,,handgloves, goggles etc. as required. HOUSEKEEPING : Contractor shall,do housekeeping and shall remove all unwanted materials from the work,site immediately after completion of work. Housekeeping shall also be,done in between the work to keep the work area clean <> tidy	EA

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151	1003604	LETTERING UPTO 1" SIZE	<p>LETTERING UPTO 1" SIZE,SCOPE OF WORK :,CLEANING OF AREA TO BE PAINTED WITH WIRE BRUSH/CLOTH.,1.PROVIDING AND APPLYING SYNTHETIC ENAMEL PAINT FOR LETTERING WORK OF,FOLLOWING SIZES;,UPTO 1" SIZE,2. LETTERING WILL BE CARRIED OUT WITH YELLOW PAINT AS BACKGROUND AND,BLACK COLOUR FOR LETTERS.,DFPCL'S SCOPE OF SUPPLY :-,ELECTRIC POWER &lt;(&gt;&amp;&lt;)&gt; WATER – FREE OF CHARGE.,REQUIREMENTS FOR PAINTING/LETTERING WILL BE PROVIDED BY DFPCL.,REQUIRED PERMITS TO CARRYOUT THE JOBS.,CONTRACTOR'S SCOPE OF SUPPLY :-,1.SUPPLY/ APPLY OF PAINT OF VARIOUS SHADES AS MENTIONED ABOVE. ONLY,SYNTHETIC ENAMEL PAINT TO BE APPLIED.,2.ALL TOOLS, TACKLES,CONSUMABLES ETC.,3. COMPETENT MANPOWER FOR CARRYING OUT THE JOB.,4. TO &lt;(&gt;&amp;&lt;)&gt; FRO TRANSPORTATION OF MANPOWER AND MATERIALS.,5. ALL PERSONS WORKING INSIDE THE PREMISES TO WEAR PPE AND ADHERE TO ALL,SAFETY RULES AND REGULATIONS AS ADOPTED AT DFPCL.,TIME SCHEDULE :-,JOB IS TO BE STARTED IMMEDIATELY IN CONSULATION WITH OUR,JOB CO-ORDINATOR ,INVOICING :-,ONLY ONE INVOICE TO BE SUBMITTED TO OUR JOB CO-ORDINATOR,FOR HIS CERTIFICATION AND FURTHER PROCESSING.</p>	EA
152	1003605	LETTERING ABOVE 1" UPTO 2" SIZE	<p>LETTERING ABOVE 1" UPTO 2" SIZE,SCOPE OF WORK :,CLEANING OF AREA TO BE PAINTED WITH WIRE BRUSH/CLOTH.,1.PROVIDING AND APPLYING SYNTHETIC ENAMEL PAINT FOR LETTERING WORK OF,FOLLOWING SIZES;,UPTO 2" SIZE,2. LETTERING WILL BE CARRIED OUT WITH YELLOW PAINT AS BACKGROUND AND,BLACK COLOUR FOR LETTERS.,DFPCL'S SCOPE OF SUPPLY :-,ELECTRIC POWER &lt;(&gt;&amp;&lt;)&gt; WATER – FREE OF CHARGE.,REQUIREMENTS FOR PAINTING/LETTERING WILL BE PROVIDED BY DFPCL.,REQUIRED PERMITS TO CARRYOUT THE JOBS.,CONTRACTOR'S SCOPE OF SUPPLY :-,1.SUPPLY/ APPLY OF PAINT OF VARIOUS SHADES AS MENTIONED ABOVE. ONLY,SYNTHETIC ENAMEL PAINT TO BE APPLIED.,2.ALL TOOLS, TACKLES,CONSUMABLES ETC.,3. COMPETENT MANPOWER FOR CARRYING OUT THE JOB.,4. TO &lt;(&gt;&amp;&lt;)&gt; FRO TRANSPORTATION OF MANPOWER AND MATERIALS.,5. ALL PERSONS WORKING INSIDE THE PREMISES TO WEAR PPE AND ADHERE TO ALL,SAFETY RULES AND REGULATIONS AS ADOPTED AT DFPCL.,TIME SCHEDULE :-,JOB IS TO BE STARTED IMMEDIATELY IN CONSULATION WITH OUR,JOB CO-ORDINATOR ,INVOICING :-,ONLY ONE INVOICE TO BE SUBMITTED TO OUR JOB CO-ORDINATOR,FOR HIS CERTIFICATION AND FURTHER PROCESSING.</p>	EA

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153	1003606	LETTERING ABOVE 2" UPTO 6" SIZE	LETTERING ABOVE 2" UPTO 6" SIZE,SCOPE OF WORK :;CLEANING OF AREA TO BE PAINTED WITH WIRE BRUSH/CLOTH.,1.PROVIDING AND APPLYING SYNTHETIC ENAMEL PAINT FOR LETTERING WORK OF,FOLLOWING SIZES;,ABOVE 2" UPTO 6" SIZE,2. LETTERING WILL BE CARRIED OUT WITH YELLOW PAINT AS BACKGROUND AND,BLACK COLOUR FOR LETTERS.,DFPCL'S SCOPE OF SUPPLY :-,ELECTRIC POWER <(>&<)> WATER – FREE OF CHARGE.,REQUIREMENTS FOR PAINTING/LETTERING WILL BE PROVIDED BY DFPCL.,REQUIRED PERMITS TO CARRYOUT THE JOBS.,CONTRACTOR'S SCOPE OF SUPPLY :-,1.SUPPLY/ APPLY OF PAINT OF VARIOUS SHADES AS MENTIONED ABOVE. ONLY,SYNTHETIC ENAMEL PAINT TO BE APPLIED.,2.ALL TOOLS, TACKLES,CONSUMABLES ETC.,3. COMPETENT MANPOWER FOR CARRYING OUT THE JOB.,4. TO <(>&<)> FRO TRANSPORTATION OF MANPOWER AND MATERIALS.,5. ALL PERSONS WORKING INSIDE THE PREMISES TO WEAR PPE AND ADHERE TO ALL,SAFETY RULES AND REGULATIONS AS ADOPTED AT DFPCL.,TIME SCHEDULE :-,JOB IS TO BE STARTED IMMEDIATELY IN CONSULATION WITH OUR,JOB CO-ORDINATOR .,INVOICING :-,ONLY ONE INVOICE TO BE SUBMITTED TO OUR JOB CO-ORDINATOR,FOR HIS CERTIFICATION AND FURTHER PROCESSING.	EA
154	1003607	LETTERING ABOVE 6" UPTO 10" SIZE	LETTERING ABOVE 6" UPTO 10" SIZE,SCOPE OF WORK :;CLEANING OF AREA TO BE PAINTED WITH WIRE BRUSH/CLOTH.,1.PROVIDING AND APPLYING SYNTHETIC ENAMEL PAINT FOR LETTERING WORK OF,FOLLOWING SIZES;,ABOVE 6" UPTO 10" SIZE,2. LETTERING WILL BE CARRIED OUT WITH YELLOW PAINT AS BACKGROUND AND,BLACK COLOUR FOR LETTERS.,DFPCL'S SCOPE OF SUPPLY :-,ELECTRIC POWER <(>&<)> WATER – FREE OF CHARGE.,REQUIREMENTS FOR PAINTING/LETTERING WILL BE PROVIDED BY DFPCL.,REQUIRED PERMITS TO CARRYOUT THE JOBS.,CONTRACTOR'S SCOPE OF SUPPLY :-,1.SUPPLY/ APPLY OF PAINT OF VARIOUS SHADES AS MENTIONED ABOVE. ONLY,SYNTHETIC ENAMEL PAINT TO BE APPLIED.,2.ALL TOOLS, TACKLES,CONSUMABLES ETC.,3. COMPETENT MANPOWER FOR CARRYING OUT THE JOB.,4. TO <(>&<)> FRO TRANSPORTATION OF MANPOWER AND MATERIALS.,5. ALL PERSONS WORKING INSIDE THE PREMISES TO WEAR PPE AND ADHERE TO ALL,SAFETY RULES AND REGULATIONS AS ADOPTED AT DFPCL.,TIME SCHEDULE :-,JOB IS TO BE STARTED IMMEDIATELY IN CONSULATION WITH OUR,JOB CO-ORDINATOR .,INVOICING :-,ONLY ONE INVOICE TO BE SUBMITTED TO OUR JOB CO-ORDINATOR,FOR HIS CERTIFICATION AND FURTHER PROCESSING.	EA

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155	1003608	LETTER BOARD BACKGROUND PAINT	LETTER BOARD BACKGROUND PAINT,SCOPE OF WORK :;CLEANING OF AREA TO BE PAINTED WITH WIRE BRUSH/CLOTH.,1.PROVIDING AND APPLYING SYNTHETIC ENAMEL PAINT FOR LETTERING WORK OF,FOLLOWING SIZES;,LETTER BOARD BACKGROUND PAINT,2. LETTERING WILL BE CARRIED OUT WITH YELLOW PAINT AS BACKGROUND AND,BLACK COLOUR FOR LETTERS.,DFPCL'S SCOPE OF SUPPLY :-,ELECTRIC POWER <(>&<)> WATER – FREE OF CHARGE.,REQUIREMENTS FOR PAINTING/LETTERING WILL BE PROVIDED BY DFPCL.,REQUIRED PERMITS TO CARRYOUT THE JOBS.,CONTRACTOR'S SCOPE OF SUPPLY :-,1.SUPPLY/ APPLY OF PAINT OF VARIOUS SHADES AS MENTIONED ABOVE. ONLY,SYNTHETIC ENAMEL PAINT TO BE APPLIED.,2.ALL TOOLS, TACKLES,CONSUMABLES ETC.,3. COMPETENT MANPOWER FOR CARRYING OUT THE JOB.,4. TO <(>&<)> FRO TRANSPORTATION OF MANPOWER AND MATERIALS.,5. ALL PERSONS WORKING INSIDE THE PREMISES TO WEAR PPE AND ADHERE TO ALL,SAFETY RULES AND REGULATIONS AS ADOPTED AT DFPCL.,TIME SCHEDULE :-,JOB IS TO BE STARTED IMMEDIATELY IN CONSULATION WITH OUR,JOB CO-ORDINATOR .,INVOICING :-,ONLY ONE INVOICE TO BE SUBMITTED TO OUR JOB CO-ORDINATOR,FOR HIS CERTIFICATION AND FURTHER PROCESSING.	SFT
156	1004164	Erection of under ground cs pipe	Shifting of fabricatied pipe in uder ground . Matching of pipe with,existing pipe.	INM
157	1004183	Epoxy Paint for Piping,Equips,Structure	Epoxy Paint for Piping, Equipments and Structures,Scope of Work for Vendor:,A) Surface Preparation:,1) Surface should be thoroughly cleaned befor paint application,2) All surfaces to be coated should be clean, dry and free,from Contamination.,B) PAINT APPLICATION:,1) Paint Supply is in Vendor Scope.,2) Surface should be properly cleaned before paint application,2) Paint application should be done as per given System Recommendation,3) DFT should get verified by Supervisor and Engineer at every stage,4) Supervisor should maintain DFT record of each coat.,C) SAFETY <(>&<)> OTHER ISSUES,1) Scaffolding for carry out the job is in scope of vendor.,2) Vendor should follow DFPCL safety rules <(>&<)> Regulations during,job excecution.,3)All tools <(>&<)> tackles Like safety belts with double lifeline,,Safety,goggles,safety hand gloves,safety helmet,safety shoes,Ear plugs,,Dust masks are in scope of vendor.,4)Dedicated Supervisor Should be appointed at workplace and he will be,solely responsible for Quality <(>&<)> safely job execution.,5)Vendor should Complete the job within given time Frame.,6) Vendor should give painting Guarantee for three years.,7) Vendor should mobilize Competent manpower to carry out the job.,8)All consumables like Cotton wastes, Wire brush, Chiesel,,Painting brush are in scope of vendor.,9) The working area cleaning and housekeeping is in Vendor scope,D) QUALITY CHECKS:,1) Surface Preparation will be verified by Supervisor and Engineer,2) DFT should be maintained at all stages of coat.,3) Minimum Total DFT= 270 Microns,DFPCL Scope:,1) Permit to carry out the Job.	M2

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158	1004220	IBR PIPING FAB & ERECT JOBS	This scope of job include.,1. Preparation of provisional isometric drawing for modification/,Replacement of IBR piping.,2.Taking approval from IBR for the said job this include material,inspection from IBR inspector.,3. Shifting the all required piping material from store to site,4.Erect the line as per approved IBR drawing.,This include erecting the line with fabricating pipe supports,,installation,of valves, box up of flange connections if any.,5.After line erection As built IBR approved drawing to be,submitted to DFPCL EIC.,6.After completion of weldingCarryout hydrotesting inpresence of,DFPCL EIC <(>&<)> IBR inspector.,7.Submit the IBR hydrotest inspection reports if required.,8.After job completion do the housekeeping.,9.Material reconsilation to be submitted to DFPCL EIC.,10. Arranging IBR inspectors visits is in vendors scope,11.Vendor to arrange all necessary PPE, tools <(>&<)> tackles require,for the jobs.,12. Vendor to execute the job as DFPCL safety rules <(>&<)> regulations,DFPCL scope:,1. material inspection fees will be paid by DFPCL.,2.Work permit, Electricity, air will be supplied by DFPCL.,3.Inspection will be witness by DFPCL EIC	INM
159	1004335	BUTTER FLY VALVE REMOVAL & BOX UP 150#	VENDORS SCOPE,(1) OPENING OF BOTH VALVE FLANGE,(2) REMOVAL OF VALVE,(3) CLEANING OF FLANGE GASKET AREA,(4) REPAIRING OF CUT MARK ON SURFACE FLANGE BY HOT WORK IF ANY,(5) CLEANING OF STUD/BOLTS,(6) BOX UP OF VALVE WITH NEW GASKET,DFPCL SCOPE- STUD/BOLT .GASKET	IND
160	1004371	Fab & welding of MS pipes of Sc40	Fabrication <(>&<)> welding of MS pipes of Sch 40.,The scope of work shall include transportation of pipes from Stores to,worksite, cutting of pipes, edge preparation of the pipes, making fit up,and carrying out welding and necessary dressing. Application of two,coats primer / redoxide on the fabricated piece. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be paid on,applicable rate.	IND
161	1004404	Replacement of 32H004 conveyor belt	Replacement of 32H004 conveyor belt.,Scope of Work for Vendor:,1) shifting of new belt from store to site,,2) Releasing belt tension,,3) Removal of old belt by cutting,,4) Removing of idler rollers with frame for installation of hot,vulcanization m/c,,5) Installing of new belt,,6) Tensioning of new belt <(>&<)> clamping of ends,,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization.,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor scope.,DFPCL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,,2) Consumables like nutbolts, cotton waste etc required for job.	EA
162	1004455	PRE HEATING OF WELDING JOINT	SCOPE OF WORK,(1) Heating of welding joint upto 150 degree centigrade @ 75digree,centigrade,(2) After welding normalising temperature,(3) All M/C tool tackle in contractor scope,DFPCL SCOPE- Safety permit, Power <(>&<)> Water	PSH

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163	1004490	Erection Of Pump Set	Scope of work :;Installation Pump Set on foundation.,1. Erection of equipment's consist of lifting the equipment's by using,Crane / Hydra,,2. Opening of equipment covers for inspection <(>&<)> box up of all,flange connections, tightening of foundation bolts, leveling <(>&<)>,Providing the packing plate/ resting plates wherever required shown over,the drawings <(>&<)> maintaining the elevation of equipment's connection,flanges as per drawing.,3. Install all mountings (pressure/ temperature gauges, dampener, NRV,,safety valves, arrester etc. given on isometric drawings).,4.Boxing up all connecting flanges, <(>&<)> any other interconnected,job.	MT
164	1004496	Painting of piping, pipe support, equipm	Scope of work :;1. Painting of piping, pipe support, equipments prior to insulation job.,2.Vendor to clean the pipe surface by sand paper <(>&<)> apply 2 coat of,redoxide.,3. Paint will be supplied by vendors, Manpower, scaffolding are in,vendors scope.	M2
165	1004549	WRAPING & COATING OF PIPE LINE	SCOPE OF WORK,1 Clean <(>&<)> dry the pipe line properly,2 Coat the pipe line,3 Wrap the the pipe line with wrapping material properly (don't keep any,gap between wrapping).	INM
166	1004852	Structural fabrication of supports	General scope of work includes,Fabrication <(>&<)> erection of pipe supports as per drawings and,requirements,MS material will be supplied by DFPCL,Vendor to install the supports along with anchor fastners.,Clean the supprts surface <(>&<)> apply one coat of primer and one coat,of epoxy paint.,DFPCL scope:;1.Arranging the permit, electricity, water , Air.,Vendors scope:;1.Vendor to arrange competent manpower to execute the above job.,2.Anchor Fastners for supports installation.,3.Paint and painting of supports.,4.Shifting of structural steel from store to site by hydra or trolley.,5.All tools <(>&<)> tackles, safety ppE for manpower will be in vendors,scope.,6.Follows the DFPCL rules <(>&<)> guideline on site jobs.	MT
167	1004886	PAINT ARROW MARK ON PIPING UPTO 2"	1.This is generalise scope for painting an arrow mark on piping,2.Arrow mark to painted as per colour coding of DFPCL.,3.Arrow size: Width- 12mm <(>&<)> lenght- 200mm,4.Vendor to clean the pipe surface with emery paper,5.Paint the arrow mark.,Vendors scope:;1. Vendor to arrange the manpower along with their safety PPES <(>&<)>,tools,2.Colour /paint , consumables will be supplied and applied by vendors,3.After job completion carryout the housekeeping <(>&<)> get the,certification,of measurement sheet from area incharge.,4.Vendor to follow the safety rules and regulation inside plant area.,DFPCL scope:;1. Arrangement of permit.,2.Scaffolding erection if required.	EA
168	1004887	PAINT ARROW MARK ON PIPING 2" TO 4"	1.This is generalise scope for painting an arrow mark on piping,2.Arrow mark to painted as per colour coding of DFPCL.,3.Arrow size: Width- 25mm <(>&<)> lenght- 200mm,4.Vendor to clean the pipe surface with emery paper,5.Paint the arrow mark.,Vendors scope:;1. Vendor to arrange the manpower along with their safety PPES <(>&<)>,tools,2.Colour /paint , consumables will be supplied and applied by vendors,3.After job completion carryout the housekeeping <(>&<)> get the,certification,of measurement sheet from area incharge.,4.Vendor to follow the safety rules and regulation inside plant area.,DFPCL scope:;1. Arrangement of permit.,2.Scaffolding erection if required.	EA

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169	1004888	PAINT ARROW MARK ON PIPING 4" TO 6"	1.This is generalise scope for painting an arrow mark on piping,2.Arrow mark to painted as per colour coding of DFPCl.,3.Arrow size: Width- 30mm <(>&<)> lenth- 300mm,4.Vendor to clean the pipe surface with emery paper,5.Paint the arrow mark.,Vendors scope:,1. Vendor to arrange the manpower along with their safety PPES <(>&<)>,tools,2.Colour /paint , consumables will be supplied and applied by vendors,3.After job completion carryout the housekeeping <(>&<)> get the,certification,of measurement sheet from area incharge.,4.Vendor to follow the safety rules and regulation inside plant area.,DFPCL scope:,1. Arrangement of permit.,2.Scaffolding erection if required.	EA
170	1004889	PAINT ARROW MARK ON PIPING 6" TO 10"	1.This is generalise scope for painting an arrow mark on piping,2.Arrow mark to painted as per colour coding of DFPCl.,3.Arrow size: Width- 60mm <(>&<)> lenth- 600mm,4.Vendor to clean the pipe surface with emery paper,5.Paint the arrow mark.,Vendors scope:,1. Vendor to arrange the manpower along with their safety PPES <(>&<)>,tools,2.Colour /paint , consumables will be supplied and applied by vendors,3.After job completion carryout the housekeeping <(>&<)> get the,certification,of measurement sheet from area incharge.,4.Vendor to follow the safety rules and regulation inside plant area.,DFPCL scope:,1. Arrangement of permit.,2.Scaffolding erection if required.	EA
171	1004890	PAINT ARROW MARK ON PIPING 10" ABOVE	1.This is generalise scope for painting an arrow mark on piping,2.Arrow mark to painted as per colour coding of DFPCl.,3.Arrow size: Width- 80mm <(>&<)> lenth- 800mm,4.Vendor to clean the pipe surface with emery paper,5.Paint the arrow mark.,Vendors scope:,1. Vendor to arrange the manpower along with their safety PPES <(>&<)>,tools,2.Colour /paint , consumables will be supplied and applied by vendors,3.After job completion carryout the housekeeping <(>&<)> get the,certification,of measurement sheet from area incharge.,4.Vendor to follow the safety rules and regulation inside plant area.,DFPCL scope:,1. Arrangement of permit.,2.Scaffolding erection if required.	EA
172	1004987	Supply of WELDER	Supply of WELDER.,Vendor Scope-,Supply of WELDERS for different categories in normal duty,(Gen./first/second/third)shall include light tools and personal safety,gadgets like helmets, safety shoes, safety goggles and safety belts of,approved quality.,DFPCL/DSTL SCOPE-,SAFETY TRAINING WILL BE PROVIDED.,SAFETY:,1.All persons shall work under full safety <(>&<)> precautions using,safety helmets, safety belts, , safety shoes, hand gloves, goggles etc.,as required.,HOUSEKEEPING:,1.Contractor shall do housekeeping and shall remove all unwanted,materials from the work site Immediately after completion of work.,Billing:,Contractor should submit bill within 7 days of job completion.	PSH
174	1005212	CS/LTCS Pipe (SAW) Sch - 80	Fabrication <(>&<)> welding of CS/LTCS pipes (SAW) schedule 80.,The scope of work shall include transportation of pipes from Stores to,worksite,,cutting of pipes, edge preparation of the pipes, making fit up and,carrying out welding and necessary dressing. Returning of balance,materials to the stores. For mitre fabrication 20% extra will be,paid on applicable rate.	IND

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175	1006138	Replacement of 32H001A/B conveyor belt	Scope of Work for Vendor:.,1) shifting of 800mm width <(>&<)> apprxo. 35 meters belt from store to,site.,2) Released of belt tension,3) Removing of old belt by cutting.,4) Removing of idler roller with frame for installation of hot,vulcanization m/c,5) installing of new belt,6) tensioning of new belt <(>&<)> clamping,7) helping hot vulcanizatin machine for setup on conveyor.,8) removal of hot vulcanization machine after vulcanization.,9) belt normalization,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA
176	1006139	Replacement of 32H003 conveyor belt	Scope of Work for Vendor:.,1) shifting of 800mm width <(>&<)> apprxo. 45 meters belt from store to,site.,2) Released of belt tension,3) Removing of old belt by cutting.,4) Removing of idler roller with frame for installation of hot,vulcanization m/c,5) installing of new belt,6) tensioning of new belt <(>&<)> clamping,7) helping hot vulcanizatin machine for setup on conveyor.,8) removal of hot vulcanization machine after vulcanization.,9) belt normalization,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA
177	1006170	Replacement of 32H007 conveyor belt	Scope of Work for Vendor:.,1) removal of FRP canopy on belt conveyor,2) shifting of 650mm width <(>&<)> apprxo. 45 meters belt from store to,site.,3) Released of belt tension,4) Removing of old belt by cutting.,5) Removing of idler roller with frame for installation of hot,vulcanization m/c,6) installing of new belt,7) tensioning of new belt <(>&<)> clamping,8) helping hot vulcanizatin machine for setup on conveyor.,9) removal of hot vulcanization machine after vulcanization.,9) belt normalization <(>&<)> FRP canopy fixing on belt.,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA
178	1006172	Replacement of 32H011A conveyor belt	Scope of Work for Vendor:.,1) removal of FRP canopy on belt conveyor,2) shifting of 650mm width <(>&<)> apprxo. 60 meters belt from store to,site.,3) Released of belt tension,4) Removing of old belt by cutting.,5) Removing of idler roller with frame for installation of hot,vulcanization m/c,6) installing of new belt,7) tensioning of new belt <(>&<)> clamping,8) helping hot vulcanizatin machine for setup on conveyor.,9) removal of hot vulcanization machine after vulcanization.,9) belt normalization <(>&<)> FRP canopy fixing on belt.,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA

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179	1006173	Replacement of 32H008 conveyor belt	Scope of Work for Vendor:.,1) removal of FRP canopy on belt conveyor,2) shifting of 650mm width <(>&<)> apprx. 30 meters belt from store to,site.,3) Released of belt tension,4) Removing of old belt by cutting.,5) Removing of idler roller with frame for installation of hot,vulcanization m/c,6) installing of new belt,7) tensioning of new belt <(>&<)> clamping,8) helping hot vulcanizatin machine for setup on conveyor.,9) removal of hot vulcanization machine after vulcanization.,9) belt normalization <(>&<)> FRP canopy fixing on belt.,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA
180	1006174	Replacement of 33H001 conveyor belt	Scope of Work for Vendor:.,1) removal of FRP canopy on belt conveyor,2) shifting of 650mm width <(>&<)> apprx. 30 meters belt from store to,site.,3) Released of belt tension,4) Removing of old belt by cutting.,5) Removing of idler roller with frame for installation of hot,vulcanization m/c,6) installing of new belt,7) tensioning of new belt <(>&<)> clamping,8) helping hot vulcanizatin machine for setup on conveyor.,9) removal of hot vulcanization machine after vulcanization.,9) belt normalization <(>&<)> FRP canopy fixing on belt.,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA
181	1006175	Replacement of 32H011B conveyor belt	Scope of Work for Vendor:.,1) removal of FRP canopy on belt conveyor,2) shifting of 650mm width <(>&<)> apprx. 200 meters belt from store to,site.,3) Released of belt tension by lifting counter weight pulley with help,of chain block,4) Removing of old belt by cutting.,5) Removing of idler roller with frame for installation of hot,vulcanization m/c,6) installing of new belt,7) tensioning of new belt <(>&<)> clamping,8) helping hot vulcanizatin machine for setup on conveyor.,9) removal of hot vulcanization machine after vulcanization.,9) belt normalization by lowering counter weight pulley <(>&<)> FRP,canopy fixing on belt.,10) house keeping after job completion,11) tools <(>&<)> tackles in vendor scope.,STL's scope,1) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,2) all consumables like nutbolts, cotton waste etc required for job	EA
182	1006187	Replacement of 31K121 pipe reactor	Scope of Work for Vendor:.,1) shifting of new or repaired pipe reactor from store to site.,2) dismantling of all connected piping flange joints(4"X300#),3) Removing of old pipe reactor ( DIA 6" SCH80, LENGTH 8.5 MTRS,WIGHT,800KG),4) fixing of new pipe reactor( DIA 6" SCH80, LENGTH 8.5 MTRS,WIGHT,800KG),5) connecting all flange joints with new gasket.,6) house keeping after job completion,7) tools <(>&<)> tackles in vendor scope.,STL's scope,1) isolate equipment with proper draining <(>&<)> flushing.,2) Hand over of equipment with Positive isolation <(>&<)> issue of,permit,3) all consumables like nutbolts, gaskets etc required for job	EA

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183	1006293	REPLACEMENT OF 34H003 CONVEYOR BELT	REPLACEMENT OF 34H003 CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Grade - Heat resistance) from store to site,at 20 mtr height,Belt width : 800 MM, Belt Thickness : 10 MM, Belt Length : 20 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	EA
184	1006331	NG Skid Duplex filters replacement	Vendor scope,Depute skilled, Experienced Supervisor, Technicians at site,Arranging all required tools at Site,Opening of NG filter top cover 8" 300,Removal of old filter candles 3 Nos (OD 80mm, Length 900mm),Internal cleaning of natural gas filter assembly,Installation of New filter candles (OD 80mm, Length 900mm),Locking of filter candles,Box up of filter top cover 8"300,Site mobilisation and demobilisation,House keeping of area,STL Scope,Work Permits for job,Arranging required Spares,Arranging required scaffolding	EA
185	1006332	Boiler deaerator internal inspect/cleang	Vendor scope,Depute skilled, Experienced Supervisor, Technicians at site,Arranging all required tools at Site,Opening of deaerator man holes 24"300, 2 no's,Gasket cutting for man holes 24" 300, 2 no's,Blind provisions for all incoming lines,Internal cleaning of deaerator,BFW pumps A, B <(>&<)> C Suction strainer removal,Blind removal of water feed line,Flushing of deaerator,Removal of all incoming lines blinds,Deaerator man holes box up 24"300, 2 no's,BFW pumps A, B <(>&<)> C suction strainers box up 4"150,Site mobilisation and demobilisation,House keeping of area,STL Scope,Work Permits for job,Arranging required Spares,Arranging required scaffolding	EA
186	1006335	WNA5 Absorber Hose replacement-Offline	VENDOR'S SCOPE :,WNA-5 absorber cooling water hose repacement during plant S/D.,1" synthetic rubber Hose Cutting as per Actual size in field.,Removal of 1" hose clips- 04No,Removal of 1" hose.,Fixing of new 1" hose,Fixing of new 1" hose clamps- 04 No.,All tools, tackles, spanners,in vendor's scope.,Housekeeping after completion of the job.,Vendor to fulfill all statutory and safety compliance .,STL SCOPE :,1)Power. air <(>&<)> water to the extent available.,2)Necessary safety permits,3)Consumables like hose, clamps etc.	EA
187	1006336	WNA5 Absorber Hose replace-Online Day	VENDOR'S SCOPE :,WNA-5 absorber cooling water hose leakage to be attended in running,plant,Job is to be done in running C/W condition at 6 kg/cm2 pressure during,Night time,1" synthetic rubber Hose Cutting as per Actual size in field.,Removal of 1" hose clips- 04No,Removal of 1" hose.,Fixing of new 1" hose,Fixing of new 1" hose clamps- 04 No.,All tools, tackles, spanners,in vendor's scope.,Housekeeping after completion of the job.,Vendor to fulfill all statutory and safety compliance .,STL SCOPE :,1)Power. air <(>&<)> water to the extent available.,2)Necessary safety permits,3)Consumables like hose, clamps etc.	EA

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188	1006337	WNA5 Absorber Hose replace Online Silent	VENDOR'S SCOPE ;,WNA-5 absorber cooling water hose leakage to be attended in running,plant,Job is to be done in running C/W condition at 6 kg/cm2 pressure during,Day time,1" wire braided Hose Cutting as per Actual size in field.,Removal of 1" hose clips- 04No,Removal of 1" hose.,Fixing of new 1" hose,Fixing of new 1" hose clamps- 04 No.,All tools, tackles, spanners,in vendor's scope.,Housekeeping after completion of the job.,Vendor to fulfill all statutory and safety compliance .,STL SCOPE :,1)Power. air <(>&<)> water to the extent available.,2)Necessary safety permits,3)Consumables like hose, clamps etc.	EA
189	1006372	Static eq erection up to 25MT	Erection of equipment's consist of unboxing, lifting/shifting the,equipment's by using Crane / Hydra to site 2. Erection of equipment,with the help of tested tools <(>&<)> tackles, crane/hydra and competent,manpower.Alignment, levelling <(>&<)> tightening of foundation,bolts.Maintaning the elevation of equipment's connection flanges as per,drawing. 3. box up of nozzle flange connections if any.,DFPCL scope - Free issue material,Power,water and permits	MT
190	1006480	CS Plate cutting 12 -16 mm thick.	Vendor scope:,Vendor scope:,Cutting of CS plate 12 to 16 mm thick by Grinding wheel/DA+oxygen gas,cutting set/Plasma cutting set and Grind the edges, corners after,cutting.Shifting to required place as per Job Co-ordinator. The scope of,job includes dismantling of plate or carrying out modification in the,plate structure. The cut of materials shall be shifted/transported back,as per instruction of Job Co-ordinator.	INL
191	1006651	CHAINBLOCK,GEAR TROLLY REMOVAL & FIXING	Removal of the Chain block and gear trolley from the location,Fixing of the Chain block and gear trolley at required location,required scaffolding erection	EA
192	1006802	CS/LTCS pipes (GTAW) sch40 at site	Fabrication <(>&<)> welding of pipes inside company premises 24 hrs,working for jobs,Fabrication <(>&<)> welding of CS/LTCS pipes (GTAW) sch 40,The scope include cutting of pipes, edge preparation of the pipes,,making fit up and carrying out welding as per WPS and necessary d,ressing. Returning of balance materials to User.,All welding consumable, qualified welders, shifting of pipes/ handling,of pipes by hydra or manually , scaffolding etc are in vendors scope.,Job to be performed 24 hrs basis as per job requirement however no,worker to work more than 16 hrs per day. necessary manpower arrangement,to be done in 2 shift in a day to execute the job within short duration,of project time,Note: Welding to be performed by qualified welder as per welder,qualification test certified by NABL lab . each and every joints details,record with joint no and welder who performed the weld joint to be,maintained. each and every joint to be DP tested for root and final,weld, 20% joints (As mutually agreed by project incharge and,vendors)radiography to be performed. charges will be paid for DP testing,consumables and Radiography separately based on RM (running meter) and,Inch dia of weld joint respectively. Scaffolding charges will be paid,separtely as per actual M3 scaffolding erected at site.	IND

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193	1007080	Entropie exchanger dome O ring replace	ENTROPIE EXCHANGER DOME O RING REPLACEMENT TAG.NO. 31E161, MOC S.S.304L,Scope of Work for Vendor:,1) scaffolding erection for fixing chainblock <(>&<)> flange opening,2) opening of 500NB flange joint at top side of dome.,3) opening of 100NB flange at bottom side of dome.,4) removal of 06 nos 80NB nozzle at top side of shell,5) opening <(>&<)> shifting of 508mm OD flange joint for dome. Appxo.,Weight 500kg,6) removal of tube bundle with help of chain block. Appxo. Wt 5000kg,<(>&<)> length 5.5mtrs,7) replacement of damaged neoprene 12mm oring <(>&<)> repairing of,seating area of tube sheet if required by buffing.,8) boxup after o ring replacement.,9) Tools <(>&<)> tackles in vendor's scope.,STL'S scope,1) Necessary permit for execution of job.,All consumables like O ring. Nutbolts <(>&<)> gaskets.	LE
194	1007098	Demister pad replacement in AN separator	Demister pad replacement in AN separator 31D123 in ANS plant,1) Shifting of new demister pad from store to ANS Plant 3rd Floor.,2) diameter 270mmx100mm thick in 04 segment apprx wt 100kg,3) necessary scaffolding for line deflange <(>&<)> manhole opening,4)opening of manhole 02nos 24" dia,5) necessary blinding of equipment for vessel entry,6) removal of old demister pad segment,7) replacement of dead weight from old demister pad by cutting welding,8) installation of new demister pad on grid,9) manhole boxup <(>&<)> line boxup.,10) Tools <(>&<)> tackles in vendor's scope.,STL'S scope,1) Necessary permit for execution of job.	LE
195	1007384	REPLACEMENT OF 34H002 CONVEYOR BELT	REPLACEMENT OF 34H002 CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Grade - Heat resistance) from store to site,at 20 mtr height,Belt width : 800 MM, Belt Thickness : 10 MM, Belt Length : 80 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE
196	1007385	REPLACEMENT OF 34H004 CONVEYOR BELT	REPLACEMENT OF 34H004 CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Grade - Heat resistance) from store to site,at 10 mtr height,Belt width : 800 MM, Belt Thickness : 10 MM, Belt Length : 32 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE

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197	1007386	REPLACEMENT OF 34H005 CONVEYOR BELT	REPLACEMENT OF 34H005 CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Grade - Heat resistance) from store to site,at 30 mtr height,Belt width : 800 MM, Belt Thickness : 10 MM, Belt Length : 150 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE
198	1007387	REPLACEMENT OF 34H006 CONVEYOR BELT	REPLACEMENT OF 34H006 CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Grade - Heat resistance) from store to site,at 30 mtr height,Belt width : 800 MM, Belt Thickness : 10 MM, Belt Length : 15 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE
199	1007388	REPLACEMENT OF 34H001 CONVEYOR BELT	REPLACEMENT OF 34H001 CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Grade - Heat resistance) from store to site,at 20 mtr height,Belt width : 1000 MM, Belt Thickness : 10 MM, Belt Length : 20 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping hot vulcanizatin machine for setup on conveyor.,8) Removal of hot vulcanization machine after vulcanization,9) Belt normalization,10) House keeping after job completion,11) Tools <(>&<)> tackles in vendor,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE

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200	1007397	REPLACEMENT OF 35C6102 CONVEYOR BELT	REPLACEMENT OF 35C6102 OVERSIZE <(>&<)> UNDERSIZE CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Nylon,Rubber Grade-M24)) from store to site,at 6 mtr height,Belt width : 600 MM, Belt Thickness : 10 MM, Belt Length : 30 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping cold vulcanizatin machine for setup on conveyor.,8) Removal of vulcanization machine after vulcanization,9) House keeping after job completion,10) Tools <(>&<)> tackles in vendor scope,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE
201	1007398	REPLACEMENT OF 35C6103 CONVEYOR BELT	REPLACEMENT OF 35C6103 COLLECTOR CONVEYOR BELT,VENDOR'S SCOPE OF WORK," 1) shifting of new belt (Nylon,Rubber Grade-M24) from store to site at,6 mtr height,Belt width : 600 MM, Belt Thickness : 10 MM, Belt Length : 16 MTR.",2) Releasing belt tension,3) Removal of old belt by cutting,4) Removing of carrying idler rollers along with frames ( 3 nos.,frames having total weight is 45 Kg ) for installation of hot vul,canization m/c,5) Installing of new belt,6) Tensioning of new belt <(>&<)> clamping of ends,7) Helping cold vulcanizatin machine for setup on conveyor.,8) Removal of vulcanization machine after vulcanization,9) House keeping after job completion,10) Tools <(>&<)> tackles in vendor scope,STL SCOPE,1) Hand over of equipment with Positive isolation <(>&<)> issue of,appropriate work permits,2) Consumables like nutbolts, cotton waste etc required for job.	LE
202	1008318	DP testing of Weld Joints	Dye Penetration testing of Pipeline Welding Joints <(>&<)> Certification,Contractor scope of work :,1)Surface to be examined <(>&<)> all adjust area of at least 1" to be,cleaned made free from dust,scale,paint <(>&<)> grease.,2) After Completion of Route welding to the pipeline Dye Penetration,activity to be started .,3) Carrying out Dye penetrate examination as per ASME sec-V,4) Examine the area of interest carefully,5) All work is to be performed by ASME qualified person.,6) Submission of detail report with conclusion <(>&<)> recommendation.,7) Housekeeping to be done after job completion without leaving any,unwanted material at the site.,8) All Consumables required to carry out the job is in scope of vendor.,9) After completion of DP test weld Joint area to be cleaned Properly .,10) If any Weld joint found Abnormality after completion OF DP Test by,the Respective engineer that joint need to be Rectified.,DFPCL / STL Scope :,1) Required Work permit will be issued for the execution of work .,2) Electricity <(>&<)> Water will be provided .	IND
203	1008367	Fab & erect. of gate at new garbage area	Vendor scope,Arranging skilled manpower for gate fabrication and erection at new garbage area.,Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of required dimension gate and hinges.,Erection of main fabricated gate at new garbage area.,Painting of gate is in vendors scope.,Supply of Hydra for gate erection.,Scaffolding if required.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers	LE

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204	1008421	IN-SITU FLANGE SERRATION	<p>IN-SITU FLANGE SERRATION,VENDOR SCOPE OF WORK:;1.TO CARRY OUT IN-SITU MACHINING OF THE GASKET FACE &lt;(&gt;&amp;&lt;)&gt; OTHER FACES,ETC OF PIPE FLANGES, TOWER/DRUM NOZZLES, EXCHANGER,SHELL, CHANNEL, FLANGES AND EXCHANGER COMPONENTS INCLUDING TUBE SHEETS,AS PER INSTRUCTION OF DFPCL ENGINEER,2.TO PROVIDE SERRATIONS AT GASKET FACE AS PER RECOMMENDED FINISH (63 TO,250 AARH),3.TO &lt;(&gt;&amp;&lt;)&gt; FRO TRANSPORTATION OF NECESSARY JIGS/FIXTURES, TOOLS,&lt;(&gt;&amp;&lt;)&gt; MACHINES,REQUIRED TO CARRY OUT THE JOB.,4.INSTALLATION OF JIGS &lt;(&gt;&amp;&lt;)&gt; FIXTURES BEFORE EXECUTION OF JOB,5.SUPPLY OF COMPETENT MANPOWER &lt;(&gt;&amp;&lt;)&gt; SKILLED RIGGERS/SUPERVISOR ETC TO,EXECUTE THE JOB SAFELY,6.ALL THE TOOLS/TACKLES, CONSUMABLES ETC REQD TO CARRY OUT THE JOB,7.TO ENSURE COMPLETION OF JOB WITHIN GIVEN TIMEFRAME AS PER DFPCL,ENGINEER.,8.ANY OTHER ITEMS/SERVICES REQUIRED FOR COMPLETION OF JOB.,9.TO SAFEGUARD THE WHOLE ACTIVITY,10.PPE FOR WORKMEN &lt;(&gt;&amp;&lt;)&gt; STAFF,11.ALL PERSONS SHALL WORK UNDER FULL SAFETY AND PRECAUTIONS BY USING,SAFETY HELMETS,,SAFETY BELT, SAFETY SHOES, HAND GLOVES,GOGGLE ETC. AS REQUIRED AND,SHOULD FOLLOW OTHER DFPCL'S SAFETY REGULATIONS.,DFPCL scope of supply :-,1.Free Electric power, water and air.,2.Entry gate pass &lt;(&gt;&amp;&lt;)&gt; safe work permits,SAFETY PRECAUTIONS :-,1) The contractor shall follow safety rules &lt;(&gt;&amp;&lt;)&gt; regulations, safety,procedures as per the safety standards and comply with the safety,requirements.,2)Thecontractor is required to deploy persons for specific jobs who are,trained and skilled in particular trade and well familiar with hazards,and safety precautions.,3) The site staff and workers of the contractors are required to undergo,safety orientation before they are assigned work at site.,4)No person shall be allowed at work site without safety orientation.,The contractor shall ensure that any time during the performance of the,work his personnel are fit to execute the tasks assigned and are not,under the influence of any alcoholic liquor, drug or other intoxicating,substances.,5) The contractor shall provide personal protective equipment as,specified,Mobilization:- Job to be stated immediately after clearance from DFPCL,coordinator and job will be carried out 24*7 after DFPCL and STL,clearance.</p>	IND
205	1008461	Removal & fixing of bensulf blower duct	<p>Vendor's scope,"1. Fixing of required chain blocks,2. Removal of all fasteners of feed tank blower discharge duct lines.,3. Opening of duct line (8""X150X7mtr, 6""X150X4mtr, 8""X150X12mtr,,6X150X8mtr)..4. Shifting of all duct lines to cleaning area.,5. Shifting of all lines at location after cleaning.,6. Fixing of all lines after cleaning.,7. Housekeeping after complete work.,8. All required tools, tackles and fixtures shall be in vendor's,scope.",STL'S SCOPE,1) Hand over of equipment with Positive isolation &lt;(&gt;&amp;&lt;)&gt; issue of,permit</p>	LE

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206	1008625	BUCKET ATTACHMENT & G/B REPLCMNT 32H012	32H012 BUCKET ELEVATOR BUCKET ATTACHMENT AND DRIVE GEARBOX REPLACEMENT,IN LDAN PLANT AT K8 PLANT.,VENDOR'S SCOPE OF WORK,1) OPENING OF BOTTAM BOOT COVERS,INSPECTION WINDOW AND TOP HOOD OF,BUCKET ELEVATOR.,2) PROVIDE LOCKING WHEREVER REQUIRED FOR RESTRICTION OF ROTATION,3) NECESSARY ARRANGEMENT FOR REMOVAL OF GEARBOX <(>&<)> MOTOR .,4) IF GEARBOX NOT REMOVED FROM HEAD END PULLEY SHAFT THEN SPARE HEAD END,PULLEY WITH SHAFT TOBE REPLACED.,5) SHIFTING OF SPARE GEARBOX <(>&<)> FIXING ON HEAD END PULLEY AT,ELEVATION OF APPRO. 20 MTRS <(>&<)> WEIGHT OF G/B APPRO. 100KG,6) REPLACEMENT OF 248 BUCKET ATTACHEMET WITH NEW.,7) BOXUP OF BOTTAM BOOT COVERS,INSPECTION WINDOW AND TOP HOOD OF BUCKET,ELEVATOR.,STL scope:,1) HAND OVER OF EQUIPMENT WITH POSITIVE ISOLATION <(>&<)> ISSUED OF,PERMIT.,2) ALL CONSUMABLES LIKE NUTBOLTS, COTTAN WASTE ETC REQUIRED FOR JOB.,3) ALL MATERIAL WILL BE IN STL SCOPE.	LE
207	1008626	32K003 BLOWER IMPELLER REPLACEMENT	32K003 BLOWER IMPELLER WITH SHAFT REPLACEMENT IN LDAN K8 PLANT.,VENDOR'S SCOPE OF WORK,1) NECESSARY SCAFFOLDING <(>&<)> LIFTING ARRANGEMENT FOR BLOWER TOP SPLIT,CASING REMOVAL.,2) BLOWER DECOUPLING <(>&<)> IMPELLER WITH SHAFT REMOVAL .,3) NECESSARY TOOLS <(>&<)> TACKLE INCLUDING FARANA FOR SHIFTING OF NEW,IMPELLER WITH SHAFT AT ELEVATION 20 MTRS .,4)IMPELLER WT APPROX 500KG <(>&<)> IMPELLER DIA 260X1188 MM,IMPELLER,MATERIAL SS3 04L,SHAFT DIAMETER58 MM,SHAFT LENGTH 742 MM,5) IMPELLER FIXING , TOP CASING BOXUP, BLOWER ALIGNMENT,6) OLD IMPELLER SHIFING TO ENGG WORKSHOP.,STL scope:,1) HAND OVER OF EQUIPMENT WITH POSITIVE ISOLATION <(>&<)> ISSUED OF,PERMIT.,2) ALL CONSUMABLES LIKE NUTBOLTS, COTTAN WASTE ETC REQUIRED FOR JOB.,3) ALL MATERIAL WILL BE IN STL SCOPE.	LE
208	1008627	LDAN PT W SHAPE RUBBER SHEET REPLACEMENT	LDAN PRILLING TOWER W SHAPE RUBBER SHEET REPLACEMENT.,VENDOR'S SCOPE OF WORK,1) NECESSARY PREPERATION FOR VESSEL ENTRY PERMIT IN W SHAPE.,2) PREPERATION OF NECESSARY SCAFFOLDING 15MX10MX5M HEIGHT,3) REMOVAL OF OLD RUBBER SHEET 15M LONGX1M WIDTH X 7MM THICK ( CONVEYOR,BELT) FIXED BY 5/8"X100MM LONG S.S.BOLTS,4) SHIFTING OF NEW RUBBER SHEET FROM STORE TO SITE.,5) MAKING HOLES <(>&<)> FIXING OF RUBBER SHEET 16 NOS IN W SHAPE BELOW,PT.,6) SHIFTING OF OLD DAMAGED RUBBER SHEET TO SCRAP YARD.,7) REMOVAL OF SCAFFOLDING AFTER WORK COMPLITION.,STL scope:,1) HAND OVER OF EQUIPMENT WITH POSITIVE ISOLATION <(>&<)> ISSUED OF,PERMIT.,2) ALL CONSUMABLES LIKE NUTBOLTS, COTTAN WASTE ETC REQUIRED FOR JOB.,3) ALL MATERIAL WILL BE IN STL SCOPE.	LE
209	1008650	ERECTION OF CAUSTIC DOSING TANK 75T002C	ERECTION OF MSRL, 0.4 KL CAUSTIC DOSING TANK 75T002C,TOTAL WEIGHT IS 500 KG FOR ERECTION.,Scope of Work for Vendor:,1. PREPARATION OF ERECTION AND RIGGING PLAN,,2. PREPARATION OF JSA,,3. SAFE EXECUTION OF ERECTION ACTIVITY IN COORDINATION WITH SITE CIVIL,AND MECHANICAL TEAM.,4. ALL TOOLS AND TACKLES REQUIRED FOR THE JOB.,5. THE HYDRA / FERANA OR CRANE REQUIRED FOR LIFTING/ SHIFTING AND,ERECTION WILL BE IN ERECTING VENDOR'S SCOPE.,6. LIFTING AND SHIFTING OF EQUIPMENT FROM ITS STORAGE LOCATION/,FOUNDATION AT SITE.,7. ANY STRUCTURE MODIFICATION FOR ERECTION WILL BE IN ERECTING VENDOR,SCOPE.,8. PLUM AND LEVEL (ALIGNMENT) OF EQUIPMENT.,STL'S scope,1. ALL REQUISITE PERMITS.,2. FREE AIR	LE

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			AND ELECTRICITY.,3. ANY CIVIL WORKS RELATED FOR CONVEYOR ERECTION.	
210	1008651	ERECTION - SIDE STEAM FLTR 75U001C-F001C	ERECTION OF SIDE STEAM FILTER 75U001C-F001C,TOTAL WEIGHT IS 3000 KG FOR ERECTION.,Scope of Work for Vendor:.,1. PREPARATION OF ERECTION AND RIGGING PLAN,,2. PREPARATION OF JSA,,3. SAFE EXECUTION OF ERECTION ACTIVITY IN COORDINATION WITH SITE CIVIL,AND MECHANICAL TEAM.,4. ALL TOOLS AND TACKLES REQUIRED FOR THE JOB.,5. THE HYDRA / FERANA OR CRANE REQUIRED FOR LIFTING/ SHIFTING AND,ERECTION WILL BE IN ERECTING VENDOR'S SCOPE.,6. LIFTING AND SHIFTING OF EQUIPMENT FROM ITS STORAGE LOCATION/,FOUNDATION AT SITE.,7. ANY STRUCTURE MODIFICATION FOR ERECTION WILL BE IN ERECTING VENDOR,SCOPE.,8. PLUM AND LEVEL (ALIGNMENT) OF EQUIPMENT.,9. RELATED PIPING WORK <(>&<)> VALVES INSTALLATION AS PER GA DRAWING,10. OPENING / BOX UP OF MANHOLE. MEDIA FILLING (SAND/ANTHRASITE/GRAVEL,APPROX 7000 KG) INSTALLATION INSIDE SSF AS PER OEM SUPERVISION,STL'S scope,1. ALL REQUISITE PERMITS.,2. FREE AIR AND ELECTRICITY.,3. ANY CIVIL WORKS RELATED FOR SIDE STREAM FILTER ERECTION.	LE
211	1008669	MS Gas Cutting (Upto 5 mm)	MS Gas Cutting (Upto 5 mm),"Vendor scope:.,Cutting of MS plate/pipe 0 to 6 mm thick by Grinding wheel/DA+oxygen,gas cutting set/Plasma cutting set and Grind the edges, corners after,cutting.Shifting to required place as per Job Co-ordinator. The scope of ,job includes dismantling of plate or carrying out modification in the,plate structure. The cut of materials shall be shifted/transported back,as per instruction of Job Co-ordinator." ,DFPCL/STL scope;.,1)Material (Plates),2)Necessary work permits	RM
212	1008689	34K003 BLOWER IMPELLER REPLACEMENT	34K003 BLOWER IMPELLER WITH SHAFT REPLACEMENT IN HDAN K7 PLANT.,VENDOR'S SCOPE OF WORK,1) NECESSARY SCAFFOLDING <(>&<)> LIFTING ARRAGEMENT FOR BLOWER TOP SPLIT,CASING REMOVAL.,2) BLOWER DECOUPLING <(>&<)> IMPELLER WITH SHAFT REMOVAL .,3) NECESSARY TOOLS <(>&<)> TACKELE INCLUDING FARANA FOR SHIFTING OF NEW,IMPELLER WITH SHAFT AT ELEVATION 3 MTRS .,4)IMPELLER WT APPROX 900KG <(>&<)> IMPELLER DIA 1504MM, IMPELLER,MATERIAL SS3 04L,SHAFT DIAMETER 90 MM,SHAFT LENGTH 1038 MM,5) IMPELLER FIXING , TOP CASING BOXUP, BLOWER ALIGNMENT,6) OLD IMPELLER SHIFING TO ENGG WORKSHOP.,STL scope:.,1) HAND OVER OF EQUIPMENT WITH POSITIVE ISOLATION <(>&<)> ISSUED OF,PERMIT.,2) ALL CONSUMABLES LIKE NUTBOLTS, COTTAN WASTE ETC REQUIRED FOR JOB.,3) ALL MATERIAL WILL BE IN STL SCOPE	EA

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213	1008701	34K005 BLOWER IMPELLER REPLACEMENT	34K005 BLOWER IMPELLER WITH SHAFT REPLACEMENT IN HDAN K7 PLANT.,VENDOR'S SCOPE OF WORK,1) NECESSARY SCAFFOLDING <(>&<)> LIFTING ARRAGEMENT FOR BLOWER TOP SPLIT,CASING REMOVAL.,2) BLOWER DECOUPLING <(>&<)> IMPELLER WITH SHAFT REMOVAL .,3) NECESSARY TOOLS <(>&<)> TACKLE INCLUDING FARANA FOR SHIFTING OF NEW,IMPELLER WITH SHAFT AT ELEVATION 15 MTRS .,4)IMPELLER WT APPROX 9000KG <(>&<)> IMPELLER DIA 1322 MM, IMPELLER,MATERIAL SS3 04L,SHAFT DIAMETER 78 MM,SHAFT LENGTH 940 MM,5) IMPELLER FIXING , TOP CASING BOXUP, BLOWER ALIGNMENT,6) OLD IMPELLER SHIFING TO ENGG WORKSHOP.,STL scope:,1) HAND OVER OF EQUIPMENT WITH POSITIVE ISOLATION <(>&<)> ISSUED OF,PERMIT.,2) ALL CONSUMABLES LIKE NUTBOLTS, COTTAN WASTE ETC REQUIRED FOR JOB.,3) ALL MATERIAL WILL BE IN STL SCOPE.	EA
214	1008702	FAB & REPLACE OF C.S. DUCT TO S.S.DUCT	REPLACEMENT OF EXISTING C.S. DUCT (1100-AID4-320612-BGO-W40 ) WITH,S.S.304 FABRICATED DUCT IN LDAN PLANT.,Scope of Work for Vendor:,1) REMOVAL OF OLD C.S. DUCT BY CUTTING <(>&<)> SHIFTING TO SCRAP YARD.,2)S.S.304 PLATE ROLLING OF (3.5MM THICK) PLATE TOBE USED FOR MAKING,S.S.DUCT.,3) FABRICATION OF S.S.DUCT TOBE DONE AT VENDOR WORKSHOP.,4) DUCT TOBE MADE AS PER DRAWING SUPPLY TO VENDOR WITH ALL MANHOLE,,SADDLE SUPPORT, HANDHOHE <(>&<)> FLANGES.,5) DUCT SADDLE SUPPROT <(>&<)> STIFFNER RING IS AS PER DRAWING.,6) ALL REQUIRED SCAFFOLDING FOR ERRECTION <(>&<)> DISMEMTALLING OD DUCT,IN VENDOR SCOPE,7) TOOLS <(>&<)> TACKES <(>&<)> CRANE IN VENDORS SCOPE,8) DUCT NUMBERS 1100-AID4-320612-BGO-W40,DFPCL/STL's scope,1) NECESSARY PERMIT OF EXECUTION OF JOB,2) ALL CONSUMABLES LIKE ANCHOR FASTNER, NUTBOLTS <(>&<)> GASKETS FOR JOB,3) ALL REQUIRED MATERIAL WILL BE PROVIDED.	LE
215	1008787	Modification of Grating(PRJ)	Carry out Modification / correction, erection of the electro forged,gratings on equipment mounted platforms, structural platforms etc as per,the specifications<(>&<)> as per the approved drawings etc.,Quoted rates shall include supply of all the man-power, tools and,tackles, machinery, consumables, spray paint for cold galvanization,,supervision, PPE's, steel scaffolding etc as per drawings,,specification, instructions and to the full satisfaction of the Engineer,In charge.,Detailed scope as per enquiry/tender specification.	M2
216	1008830	REPLACEMENT OF K7 BUNKER BOTTOM CONE	REPLACEMENT OF HDAN BAGGING BUNKER BOTTOM CONE AS PER DRAWING,VENDOR'S SCOPE OF WORK,CUTTING OF EXISTING CONE FROM BUNKER.,BUNKER CONE ALONG WITH 10" AND 12" NOZZLE FABRICATION IN PARTS AT VENDOR,WORKSHOP AND SHIFTING THE SAME TO SITE,ERECTION OF NEW BUNKER CONE ALONG WITH NOZZLES AND BOTTOM FLANGE AT,SITE AS PER DRAWING.,MATERIAL LIFTING AND SHIFTING FROM K8 STORES TO VENDOR WORKSHOP AND,RETURN TO JOB SITE AT K7,CONNECTING ALL FLANGE JOINT WITH GASKET.,HOUSE KEEPING AFTER JOB COMPLETION.,TOOLS AND TACKELS IN VENDORS SCOPE.,DIE PENETRANT TEST FOR WELD JOINT TO BE DONE BY VENDOR. DP MATERIAL IS,IN VENDOR SCOPE.,WELD JOINT WILL BE CERTIFIED BY STL ENGINEER AS PER DP TEST.,STL SCOPE OF WORK,NECESSARY PERMIT FOR EXECUTION OF JOB,DRAINING, CLEANING AND FLUSHING OF EQUIPMENT,CONSUMABLE LIKE NUT BOLTS AND GASKETS.,MATERIAL REQ (6 MM AND 8 MM SS 304 PLATES, 10 " AND 12" SS PIPE FOR,NOZZLE) FOR BUNKER CONE FAB IS IN STL SCOPE	LE

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217	1008992	FAB & FIXING SHOE SUPPORT IN PIPE 1/2 IN	Fabrication of pipe shoe support for 1/2 inch piping using structural,material.,Vendor scope,Arranging skilled manpower for fabrication of piping shoe support as per,drawing UCA1 DK,"Nominal Dia 1/2 """,Overhaul Height H = 98 mm,Length of Pipe shoe L = 200 mm",Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of pipe shoe support for 1/2 inch piping using structural,material.,Fixing of piping shoe support as per the pinping isometric drawing.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers,Structural material for fabrication.,Nut bolts required for shoe support fixing.	EA
218	1008993	FAB & FIXING SHOE SUPPORT IN PIPE 1 IN	Fabrication of pipe shoe support for 1 inch piping using structural,material.,Vendor scope,Arranging skilled manpower for fabrication of piping shoe support as per,drawing UCA1 DK,"Nominal Dia 1",Overhaul Height H = 102 mm,Length of Pipe shoe L = 200 mm",Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of pipe shoe support for 1 inch piping using structural,material.,Fixing of piping shoe support as per the pinping isometric drawing.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers,Structural material for fabrication.,Nut bolts required for shoe support fixing.	EA
219	1008994	FAB & FIX SHOE SUPPORT IN PIPE 1 1/2 IN	Fabrication of pipe shoe support for 1 1/2 inch piping using structural,material.,Vendor scope,Arranging skilled manpower for fabrication of piping shoe support as per,drawing UCA1 DK,"Nominal Dia 1 1/2",Overhaul Height H = 110 mm,Length of Pipe shoe L = 200 mm",Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of pipe shoe support for 1 1/2 inch piping using structural,material.,Fixing of piping shoe support as per the pinping isometric drawing.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers,Structural material for fabrication.,Nut bolts required for shoe support fixing.	EA
220	1008995	FAB & FIX SHOE SUPPORT IN PIPE 2 IN	Fabrication of pipe shoe support for 2 inch piping using structural,material.,Vendor scope,Arranging skilled manpower for fabrication of piping shoe support as per,drawing UCA1 DK,"Nominal Dia 2",Overhaul Height H = 113 mm,Length of Pipe shoe L = 200 mm",Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of pipe shoe support for 2 inch piping using structural,material.,Fixing of piping shoe support as per the pinping isometric drawing.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers,Structural material for fabrication.,Nut bolts required for shoe support fixing.	EA

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221	1008996	FAB & FIX SHOE SUPPORT IN PIPE 3 IN	Fabrication of pipe shoe support for 3 inch piping using structural,material.,Vendor scope,Arranging skilled manpower for fabrication of piping shoe support as per,drawing UCA1 DK,"Nominal Dia 3",Overhaul Height H = 131 mm,Length of Pipe shoe L = 200 mm",Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of pipe shoe support for 3 inch piping using structural,material.,Fixing of piping shoe support as per the pinping isometric drawing.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers,Structural material for fabrication.,Nut bolts required for shoe support fixing.	EA
222	1008997	FAB & FIX SHOE SUPPORT IN PIPE 4 IN	Fabrication of pipe shoe support for 4 inch piping using structural,material.,Vendor scope,Arranging skilled manpower for fabrication of piping shoe support as per,drawing UCA1 DK,"Nominal Dia 4",Overhaul Height H = 146 mm,Length of Pipe shoe L = 200 mm",Welding Machine, Extension boards, Grinders , Welding rod, filler wire,required in vendors scope,All required necessary PPE to workmen.,All required lifting tools with valid test certificate.,Fabrication of pipe shoe support for 4 inch piping using structural,material.,Fixing of piping shoe support as per the pinping isometric drawing.,Housekeeping of complete area,STL Scope,Work Permits for job,Safety toolbox to Staff <(>&<)> workers,Structural material for fabrication.,Nut bolts required for shoe support fixing.	EA
224	1009144	Equipment shifting & Unloading	Equipment shifting <(>&<)> Unloading Loading,Vendor scope,1. Supply of skilled manpower for Equipment shifting <(>&<)> Unloading,2. Activities to be performed API DFPCL /STL Engineers,3. Shifting of equipment form one place to another place,4. Loading <(>&<)> unloading of Equipments,DFPCL/STL Scope:,1. Work Permits,,2. Drawings,,3. consumables materials Gasket, Bolts,4. Power supply, lights	KG
225	1009145	Structural Unloading & Shifting	Structural Unloading <(>&<)> Shifting,Vendor scope,1. Supply of skilled manpower for Structural Unloading <(>&<)> Shifting,2. Activities to be performed API DFPCL/STL Engineers,3. Shifting of Structural material form one place to another place,4. Loading <(>&<)> unloading of Structural material,DFPCL/STL Scope:,1. Work Permits,,2. Power supply, lights	KG
226	1009146	Scrap material Shifting & loading	Scrap material Shifting <(>&<)> loading,Vendor scope,1. Supply of skilled manpower for Scrap material Shifting <(>&<)>,loading,2. Activities to be performed API STL Engineers,3. Scrap material Shifting form one place to another place,4. Scrap material Shifting <(>&<)> loading,DFPCL/STL/DMSL Scope:,1. Work Permits,,2. Drawings,,3. consumables materials Gasket, Bolts,4. Power supply, lights	KG
229	2002285	Installation of M12x100mm anchor fastner	Installation of Heavy duty anchor fasteners of approved make for,concrete structure for special requirements other than work covered,under various items of this specification.	NOS

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230	4000468	Prov.& apply Epoxy Paint With Primer	Contractor's Scope :;1) Prov. <(>&<)> Applying 1 Coat of Primer <(>&<)> 2 Coats of Epoxy,Paint,2) Surface preparation by Mechanical cleaning using Sand Paper, Grinder,,Etc. Complete.,3) Thickness of primer coat should be 90 microns minimum.,4) Thickness of each coat of Paint should be 40 microns.,5) Make of paint should be Berger, Asian with approved Shade.,6) Necessary permits to be taken <(>&<)> safety rules <(>&<)>,regulations must be followed.,DFPCL Scope :;1) Electricity, water will be provided free of Cost for work inside,DFPCL premises.,2) Issuing the permit after complete preparation by Contractor.	M2
231	4001550	Shot Blasting & Epoxy PU paint-Structure	Prov. And doing shot blasting to fabricated structures and painting,epoxy PU paint with approved shade.,Contractor's Scope : 1) Prov. <(>&<)> Applying 1 Coat of Primer <(>&<)>,2 Coats of high built Polyurathane Paint,2) Surface preparation by shot blasting to acheive SA 2.5 grade . 3),Thickness of primer coat should be 90 microns minimum.,4) Thickness of each coat of Paint should be 40 microns. 5) Make of,paint should be Berger, Asian or Akzo nobel,with approved Shade. 6) Scaffolding is included in the scope of work.,It includes unloading from trailer, lifting - shifting,during paint process and loading after completion of one coat primer,and one coat epoxy paint on trailer and transport,to Taloja K8 plant with unloading at site. 7) Necessary permits to be,taken <(>&<)> safety rules <(>&<)> regulations must be followed.,DFPCL Scope : 1) Electricity, water will be provided free of Cost for,work inside DFPCL premises.,2) Issuing the permit after complete preparation by Contractor.	MT
232	1008460	HDAN Stack fan removal & fixing	Vendor's scope "1. Necessary scaffolding at suction & discharge ducts of stack fan. 2. Removal of all fasteners of bellows. 3. Removal of suction & discharge bellows of fan. 4. Fixing of required chain blocks. 5. Dismantling of impeller, bearing housing. 6. Shifting of assembly from 6th floor of prilling tower to K8 workshop manually. 7. Shifting of assembly from K8 workshop to 6th floor of prilling tower manually. 8. Erection of fan assembly at location. 9. Fixing of suction & discharge bellows of fan. 10. Removal of scaffolding. 11. Housekeeping after complete work. 12. All required tools, tackles and fixtures shall be in vendor's scope."  STL'S SCOPE 1) Hand over of equipment with Positive isolation & issue of permit	AU

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233	1008470	STATIC EQUIPMENT INSPECTION	<p>STATIC EQUIPMENT INSPECTION</p> <p>VENDOR'S SCOPE OF WORK  Inspection of all type of Heat Exchangers, Piping, Pressuer vessel Hydrotest jobs,  Inspection of Flanges serration and its gasket condition, provding the checklist  Inspection of Welding jobs, NDT jobs. Preparing all static equipment inspection checklist and reports  Mainatenace and Testing of Heat exchanger like, shell and tube fixing, floating and U tube exchanger  Preparation of the Inscpetion reports and submit to the Engineer.</p> <p>Min Qualification of job excuting Team:  Min:Diploma in Mechanical Engineering with 5 Years experience  NDT ASNT Level II</p> <p>DFPCL/STL scope of supply :-  1.Free Electric power, water and air.  2.Entry gate pass &amp; safe work permits</p> <p>SAFETY PRECAUTIONS :- 1) The contractor shall follow safety rules &amp; regulations, safety procedures as per the safety standards and comply with the safety requirements.2)Thecontractor is required to deploy persons for specific jobs who are trained and skilled in particular trade and well familiar with hazards and safety precautions.3) The site staff and workers of the contractors are required to undergo safety orientation before they are assigned work at site. 4)No person shall be allowed at work site without safety orientation. The contractor shall ensure that any time during the performance of the work his personnel are fit to execute the tasks assigned and are not under the influence of any alcoholic liquor, drug or other intoxicating substances. 5) The contractor shall provide personal protective equipment as specified</p>	PSH
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**ANNEXURE IV**  
**Additional Terms and Conditions**

**1 GENERAL:**

There are to apply as additional specifications and conditions, unless otherwise already provided for contradictorily elsewhere in this contract.

**2 CONTRACTOR TO STUDY SITE CONDITIONS:**

The Contractor shall be deemed to have carefully examined the work and site conditions including labour, the general and the special conditions, specifications, schedules and drawing and shall be deemed to have visited the site of the work and to have fully informed himself regarding local conditions and carried out his own investigations to arrive at rates quoted in the tender. In this regard, he will be given necessary information to the best of Knowledge of CLIENT but without any guarantee to it.

If he shall have any doubt as to the meaning of any portions of these general conditions, or the scope of the work or the specifications and drawings, or any other matter concerning the contract, he shall in good time, before submitting his tender, set forth the particulars thereof and submit them to the Client / Architect, in writing in order that such doubts may be clarified authoritatively before tendering. Once a tender is submitted, the matter will be decided according to tender conditions, in the absence of such authentic pre-clarification.

**3 DECLARATION OF THE CONTRACTOR:**

The Contractor should sign the declaration form.

**4 WORKING METHODS AND PROGRESS SCHEDULE:**

**4.1 PROGRAM OF WORK:**

The work is required to be completed within a period of as specified by the Job Coordinator.

**4.2**

**a) METHODOLOGY OF CONSTRUCTION AND CONSTRUCTION EQUIPMENT:**

Contractor shall furnish at least 7 days in advance his program of commencement of item of work, the details of actual methods that would be adopted by the Contractor for the execution of various items of cast-in-situ, super structure, and earth work, supported by necessary detailed drawing and sketches including those of the plant and machinery that would be used, their locations, arrangements for conveying and handling materials etc. And obtain prior approval of Architect well in advance of starting of such item of work. The client's EIC reserves the right to suggest modifications or make complete changes in the method proposed by the Contractor, whether accepted previously or not at any stage of the work, to obtain the desired accuracy, quantity and progress of the work which shall be binding on the Contractor, and no claim on account of such change in method of execution will be entertained by client's EIC so long as specifications of the item remain unaltered. The sole responsibility for the safety and adequacy of the methods adopted by the Contractor will however rest on the Contractor, irrespective of any approval given by the client's EIC.

In case of slippage from the approved work program at any stage, the Contractor shall furnish a revised program to make up the slippage within the stipulated time schedule and obtain the approval of the clients to the revised program.

**(b) CONSTRUCTION EQUIPMENT:**

The Contractor shall be required to give a trial run of the equipment's for establishing their capability to achieve the laid down specifications and tolerance to the satisfaction of the client before commencement of the work. All equipment provided shall be of proven efficiency and shall be operated and always maintained, in a manner acceptable to the client and no equipment or personnel will be removed from the site without permission of Client.

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Construction equipment used to be kept in healthy condition in all respects with valid documents required for various statutory / government agencies. These are to be verified through our EHS department before taking into use.

(c) **PROGRESS SCHEDULE:**

The Contractor shall furnish within the plant, of one week if the order to start the work, the program of work in CPMs/PERT charts in quadruplicate indicating the date of actual start, the monthly progress expected to be achieved and the anticipated completion date of each major item of work to be done by him, also indicating dates of procurement and setting up of materials, plant and machinery. The schedule is to be such as is practicable of achievement towards the completion of whole work in the time limit, the particular items, if any, on the due dates specified in the contract and shall have the approval of the client, no revised schedule shall be operative without such acceptance in writing. The client/PMC is further empowered to ask for a more detailed schedule or schedules say, week by week for any item or items, in case of urgency of work as will be directed by him and the Contractor shall supply the same as and when asked for.

The Contractor shall furnish sufficient plant, equipment and labour as may be necessary to maintain the progress of the schedule. The working and shifts hours restricted to one shift a day for operations. Nightwork which requests supervision shall not be permitted except when specifically allowed by the Client each time, if requested by the Contractor. The Contractor shall provide necessary lighting arrangements etc. for night works as directed by the client without extra cost.

Further the Contractor shall submit the progress report of work in prescribed forms and charts etc. at periodical intervals, as may be specified by the client. Schedule shall be in the form of progress charts, form progress statement and/or reports as may be approved by the client / PMC.

The Contractor shall maintain Proforma, charts, details regarding machinery, equipment, labour, materials, personnel, etc. as may be specified by the client / PMC.

**5 AGENT AND WORK ORDER BOOK:**

The Contractor shall himself manage the work or engage an authorized all-time agent on the work capable of managing and guiding the work and understanding the specifications and contract conditions. The Contractor shall provide a qualified and experienced Engineer as his agent for technical matter in case the client considers this is essential for the work and so directs Contractors. He will take orders as will be given by the client or his PMC and shall be responsible for carrying them out. This agent shall not be changed without prior intimation to the client and his representative on the work site. The Contractor shall supply to the client the details of all supervisory and other staff employed by the Contractor and notify changes when made, and satisfy the client regarding the quantity and sufficiency of the staff, thus employed. The client will have the unquestionable right to ask for changes in the quality and numbers of contractor's supervisor staff and to order removal from work of any such staff. The Contractor shall comply with such orders and effect replacements to the satisfaction of the client/PMC.

A workbook shall be maintained on site and it shall be property of the client and the Contractors shall promptly sign orders given therein by the client and comply with them. The compliance shall be reported by the Contractor to the client in good time so that it can be checked. The Contractor will be allowed to copy out instructions therein from time to time.

**6 LEVELING INSTRUMENTS:**

If measurements of items of the work are based on volumetric measurements calculated from levels taken before and after the construction of the item, a large number of leveling staves, tapes etc. will have to be kept available by the Contractor at the site of the work for this purpose. Lack of such leveling staves, tapes, etc. in required numbers may cause delay in measurements and work. The Contractor will therefore have to keep enough of these readily available on site.

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**7 AUTHORITY OF REPRESENTATIVE OF THE CLIENT**

The duties of the representative of the Client / Engineer / Supervisor/Architect are to watch and supervise the work and to test and examine any material to be used or workmanship employed in connection with the works.

The PMC may from time to time, in writing delegate to his representative any powers and authorities vested in the PMC and shall furnish to the Contractor a copy of all such delegations of power and authorities any written instruction of approval given by the representative of the PMC to the Contractor within the terms of such delegations (but not otherwise) shall bind the Contractor and the Council as though it had been given by the PMC, provided always as follows.

Failure of the representative of the PMC to disapprove any work or materials shall not prejudice the power of the PMC thereafter to disapprove such work or materials and so order the putting down, removal or breaking up thereof.

**8 CO-ORDINATION:**

When several agencies for different sub-works of the project are to work simultaneously on the Project site, there must be full co-operation between different contractors to ensure timely completion of the whole project smoothly. The scheduled dates for completion specified in each contract shall therefore be strictly adhered to. Each Contractor may make his own independent arrangement for water, power, housing, etc. if they so desire. On the other hand, the Contractors are at liberty to mutual agreement in this behalf and make joint arrangements with the approval of the client. No single Contractor shall take or cause to be taken any steps or action that may cause, disruption discontent, or disturbance of work, labour, or arrangements, etc. of other Contractor in the project localities. Any action by any Contractor which the client's EIC in his unquestioned discretion may consider as infringement of the above code, would be considered as a breach of the Contract conditions and shall be dealt with as such.

In case of any dispute, disagreement between the Contractors, the client’s decision regarding the co-ordination, co-operation and facilities to be provided by any of the Contractors shall be final and binding on the Contractors concerned and such a decision or decision shall not vitiate any Contractor nor absolve the Contractor(s) of his/their obligation under the contract nor considered for the grant for any claim or compensation.

**9 SITE OFFICE:**

9.1 The Contractor shall at his own expense maintain sufficient experienced Engineers and supervisory staff etc. required for the work and shall make his own arrangement, provide portable container as a site office for them with all necessary arrangements, including fire preventing measures, etc.

**10 SUPERVISION AND INSPECTION OF WORKS AND QUALITY CONTROL:**

**10.1 SUPERVISION:**

The Contractor shall either himself supervise the execution of the works or shall appoint the competent Engineers and Supervisors approved by the Client /Architect, to act on his behalf. If in the opinion of the Client / Architect, the Contractor has himself no sufficient knowledge and experience of receiving instructions or cannot give his full attention to the works, the Contractor shall at his own expenses employ as his accredited agent a qualified Engineer approved by the Architect.

Contractors should appoint a Qualified Engineer related to steam as a Main In charge having more than 10 years of experience for each site. Under this main Engineer, minimum 3 Sub-Engineers of minimum 5-year experience should be working under him for each site. Also, a minimum of 5 to 6 Supervisors should be working below these Sub-Engineers.

Orders given to the Contractor’s agent shall be considered to have force as if these had been given to the Contractor himself. If the Contractor fails to appoint suitable agent as directed by the client, the client shall have full power to suspend the execution of the work until such date a suitable agent is appointed and the Contractor shall be

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responsible for the delay so caused to the works and the Contractor shall not be entitled for any compensation on this behalf.

**10.2 INSPECTION:**

The Contractor shall inform the client in writing when any portion of the work is ready for inspection giving him sufficient notice to enable him to inspect the same without affecting the further progress of the work. The work shall not be considered to have been completed in accordance with the terms of the contract until the client shall have certified in writing to that effect. Approval of materials or workmanship or approval of part of the work during the progress of execution shall not bind the client or in any way affect him even to reject the work which is alleged to be completed and to suspend the issue of his certificate of completion until such alternation and modifications or reconstruction have been effected at the cost of the Contractor as shall enable him to certify that the work has been completed to his satisfaction.

The Contractor shall provide at his cost the necessary ladders and such arrangements as to provide necessary facilities and assistance for proper inspection of all parts of the work at his own cost.

**11 INITIAL MEASUREMENTS FOR RECORD:**

Where, for proper measurement of the work, it is necessary to have an initial set of levels or other measurements taken, the same as recorded in the authorized field book or measurement book. by the Engineer or his authorized representative will be signed by the Contractor who will be entitled to have a true copy of the same made at his cost. Any failure on the part of the Contractor to reach such levels. etc. recorded before starting the work will render him liable to accept the decision of the Engineer /Architect as to the basis of taking measurement. Likewise, the Contractor will not cover any work which will render its subsequent measurements difficult or impossible without first getting the same jointly measured by himself and the authorized representative of the client. The record of such measurements on the Client side will be signed by the Contractor and he will be entitled to have a true copy of the same made at his cost.

**12 SAMPLES AND TESTING OF MATERIALS:**

12.1 All materials to be used on work shall be got approved in advance from the Client Engineer/ Architect and shall pass the test and/or analysis required by him which will be:

- a) As specified in the specification for the items concerned and/or
- b) I.S.I Specification (whichever and wherever applicable) or
- c) Such recognized specifications acceptable to Engineer-In-charge as equivalent there to or in absence of such authorized specification.
- d) Such requirement test and/or analysis as may be specified by the client in order of precedence given above.

12.2 The Contractor shall at his risk and cost make all arrangements and/or shall provide for all such facilities as the client may require collecting, preparing required number of samples for tests or for analysis at such time and to such place as may be directed by the client and bear all charges and cost of testing. Such samples shall also be deposited with the client.

12.3 The Contractor shall if & when and if required, submit at his cost the samples of material to be tested and analyzed and if, so directed, shall not make use of or incorporate in the work any material represented by the samples until the required tests or analysis have been made and the materials, finally accepted by the client.

12.4 The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of the materials.

12.5 The Contractor or his authorized representative will be allowed to remain present in the departmental laboratory while testing sample furnished by him. However, the results of all the tests carried out in the departmental laboratory in the presence or absence of the Contractor or his authorized representative will be binding on the Contractor.

12.6 The Contractor shall at his own cost set up a laboratory to carry out the routine tests of materials which are to be used in the work. The tests will have to be carried out either in his field laboratory or in an approved laboratory.

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In case tests are carried out in field laboratory, at least 50% tests should be carried out nearest quality control laboratory.

**13 HANDING OVER OF WORK:**

All the work and materials before finally taken over by the client., will be entire liability of the Contractor for guarding, maintaining, and making good any damages of any magnitude. Interim payments made for such work will not alter this position. The handling over by the Contractor and taking over by the client will be always in writing of which copies will go to the client or his authorized representative and the Contractor, it is, however understood that before taking over such work the Council will not out it into regular use as distinct from causal or incidental one, except as specifically mentioned elsewhere in this contract, or as mutually agreed to.

**14 CLAIMS:**

Bills for extra work or for any claim shall be paid separately apart from the interim bills for the main work. The payment of bills for the main work shall not be withheld for want of decision on the extras or claims not covered in the appendices.

Claims for extra work shall be registered within 30 days of occurrence of the event. However, bills for these claims including supporting data/details may be submitted subsequently.

Contractor should submit the detailed breakup of the extra items in the form of Labour + Material + transportation and Profit (10 %). This is to be submitted to the Engineer in Charge and Purchase Coordinator.

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## ANNEXURE V

### Commercial Terms and Conditions

- 1) **Job Controller:** Mr. Sanjay Gawade or any other person appointed by the Company at our plant locations, from time to time, shall be the job controller.
- 2) The Vendor / Contractor shall be responsible for providing the requisite and professional manpower for mentioned Subject Works.
- 3) The employees provided by the Vendor / Contractor should be employees of the Vendor / Contractor and all / any dispute/s between the Vendor / Contractor and the staff shall be resolved by the Vendor / Contractor and shall have no bearing on MAL. The Vendor / Contractor should indemnify any claim, title in debt, cost, damage, compensation in respect of its employees posted on MAL premises.
- 4) **Mobilization:** Within 15 days from the date of receipt of PO/ email confirmation the contractor shall mobilize men and materials.
- 5) **Taxes and Duties:** Taxes will be paid by MAL as per government notifications.
- 6) **Security Deposit:** - 10% of yearly basic order value will be retained by MAL or equal amount of Bank Guarantee drawn on nationalized bank or reputed private bank to be submitted by the Contractor/Tenderer or will be deducted from Tenderers From first 6 Monthly Bills from against this contract and NO INTEREST will be payable by MAL on the said this amount and it will be refunded to you only after expiry of the contract and warrantee period. subject to deduction if any.
- 7) **Invoicing & Payment:** The Vendor / Contractor shall submit on or before the expiry of the 1st week of the following month proforma running bill of the last month in the format provided by MAL, in triplicate, to the Job Coordinator giving abstract and attached with detailed, duly signed, joint measurement or joint report sheet for the various items of work executed during the month. The Vendor / Contractor shall prepare Monthly final running account bill based on the certified measurements and summary sheets and submit the same along with the enclosures mentioned herein to the person designated by the owner. Invoice shall be submitted exactly as per the original work order in line with the line items with actual quantity executed. Additional quantity (other than W/O) shall be claimed only after the issue of amendment to the work order. Also, where the rates are not available, but the jobs are executed as per the instructions of Job coordinator, Vendor / Contractor shall submit the invoice only after the issue of amendment to original Work order. Accordingly, payment shall be released in two phases i.e. Based on original WO & based on amendment to original WO.  
The Job coordinator shall ensure payment after 45 days from the date of receipt of final monthly running account bill provided the same is complete in all respects & duly certified by the engineer- in - charge/ Job Coordinator.  
The vendor / contractor should produce each monthly running bill along with measurement sheets.  
The applicable TDS shall be deducted as per the existing provisions of the law in force.  
The number of payments to be made to the Vendor / Contractor shall be restricted to one in each month.  
The payment shall be released by RTGS or NEFT with nominal charges per transaction, if imposed by the bank. *The Vendor / Contractor should provide requisite details of their bank, Account No. Branch code, etc.*

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***The participating company's declaration:***

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- 8) **Insurances:** Vendor / Contractor shall obtain and keep valid, at all times adequate insurance cover for its personnel, material and equipment, against all losses and liabilities whether at common law or under any statute relating to workers Compensation or Employer's Liability in the jurisdiction in which the Services are performed, from any accident or injury to any person employed by it in connection with the Services. The vendor / contractor shall ensure that any of their staff employed to complete the given scope of works, are similarly insured in respect of their employees including claim against third party liability.
- 9) **Validity:** **This contract is valid for a period of Three (3) years.** This final price will be valid till the job completion w.e.f. the date of the purchase order (renewable after every year subject to satisfactory performance). Further extension of the contract by a suitable period will be at the discretion of MAL. During the contract period either party can terminate the contract by giving 3 months' notice to the other party. However, in case of unsatisfactory performance or breach of contract terms on the part of the Vendor / Contractor, MAL reserves the right to terminate the contract forthwith. **MAL shall also have right to extend the Contract at its own discretion. During the contractual period, the unit rates should remain unchanged throughout the contract term. During the validity period of the Contract, there shall be no revision of the compensation payable to the Vendor / Contractor.** The Vendor / Contractor shall ensure payment of minimum wages in force and as prescribed by the competent authorities from time to time. The Vendor / Contractor is required to maintain all documents and records as required under the statutory laws and rules in force from time to time. The rate of different activities of mentioned Subject Works once finalized through MAL ERP System (SAP or IVALUA), will be applicable for any similar scope of works in either(K1 or K8) of plant.
- 10) **Notices:** Any notice required to be given by either party shall be validly given if it is in writing and sent at the abovementioned address in case of MAL and to contractor as provided in the bid document.
- 11) In the event of a contract not being considered for extension, MAL reserve the right to extend the expiry date by not more than 3 months for smooth handover. There should not be any breach of any rules and / or regulations or any violation of the terms and conditions during the tenure of contract. In case any breach / violation / misconduct observed, then MAL will impose appropriate penalty on the Vendor / Contractor. The same will be deducted from the monthly bills of the Vendor / Contractor. This will culminate in the cancellation of the complete purchase / work order without any further notice, which will be at the risk and cost of the Vendor / Contractor. Any loss and / or damage to the Plant and / or machinery or any property belonging to MAL or its Vendor / Contractor due to the negligence / mistake on part of any manpower employed by the Vendor / Contractor will be dealt with seriously and will culminate in recovering from Contractor's monthly bills. It will be the sole discretion of MAL to decide on a penalty for any misconduct / negligence / violation / breach of the terms, conditions, statutory rules, safety rules as mentioned in the tender / purchase / work order.
- 12) **Bill submission:** The billing period applicable for running A/c bills in respect of this contract is every calendar month. The bills shall be submitted to with respective Unit addresses (Wherever work is carried out)–

- MAL Unit- Plot K-1 Taloja MIDC Industrial Area, Raigad, Maharashtra, India-410208

The first RA bill shall be released only on submission of a copy of labour license duly attested by MAL administration in the prescribed format. If a labour license is not applicable, the contractor shall obtain confirmation to this effect from MAL administration.

Please mention vendor code no., PAN no., GST No., HSN / SAC Code and WO no. on invoice/ bills.

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Joint measurement sheet (IMS) to be submitted by contractor within 7 days of completion of job or within 7 days of end of the month for previous month job.

**13) Correspondence:**

For any payment/TDS certificate/Security Deposit, guarantee money refund/ Accounts related matters, please make correspondence with the accounts department at MAL Taloja.

Contractor to comply with all statutory obligations prevalent and applicable as per law. For further guideline on statutory related matters, contact personal department at respective MAL Taloja

For any job-related instruction and guidelines, working, turn up of workmen, tools & tackles, contact - engineer-in-charge / representative of plant.

For all matters related to entry/movement of persons, material, and vehicle within complex, contact the security department at respective MAL Taloja unit.

Penalty for late submission of bill:

Submission of the bill by the contractor to the concerned dept. For verification and certification of the jobs carried out by him/ them for payment shall be considered as a part of the work. In case bill is not submitted within 14 days' time from the date of completion of work mentioned in work order or issue of work order (for post facto cases) or amendment to work order whichever is later. Penalty at the rate of 1% per week of the invoice value maximum to 5% of the value of invoice shall be levied from contractor's bill. No compromise shall be granted in this regard. Date of bill scrolling shall be the reference date as zero date.

The invoice should be attached to a joint measurement sheet, failing to so, the invoice will not be processed by the finance department.

**14)** The Vendor / Contractor shall be responsible for providing the requisite number of staff for completing the mentioned Subject Works.

**15)** The Vendor / Contractor and its persons employed by him at MAL have no camping right whatsoever in the company's premises.

**16)** The members of the staff provided by the Vendor / Contractor should be employees of the Vendor / Contractor and all disputes between the Vendor / Contractor and the hiring Equipment staff shall be resolved by the Vendor / Contractor and shall have no bearing on MAL. The Vendor / Contractor should indemnify any claim, title in debt, cost, damage, compensation in respect of its employees posted on MAL premises.

**17) Liquidated Damages:** Liquidity damages of 1% per day of the monthly service charges shall be levied, subject to a maximum of 10% of contract for any breach of contractual obligations by the Vendor / Contractor as stipulated in the terms and conditions in addition to the obligation under any other provisions in the contract and the Law of the land.

**18) Force Majeure condition:** The term force Majeure as employed herein shall mean acts of God, War, Revolt, Terrorist Act, Accident, Fire, Flood and Acts and Regulations of respective Governments of the two parties.

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***The participating company's declaration:***

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Upon occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby shall notify the other party in writing within 72 hours, the full particulars and satisfactory evidence supporting his claim. Time for purpose of the relative obligations suspended by the force majeure shall then stand extended by the period of delay, which is directly caused by force majeure event.

**19) Jurisdiction:**

The Court at Pune/Panvel, Maharashtra shall have exclusive Jurisdiction to deal with and decide any legal matter whatsoever arising out of this Tender/ Purchase order or any agreement entered between the Tenderer/ Supplier and Company.

**20) Arbitration:**

Any dispute, difference, claim or question of interpretation of any nature arising between the parties with regard to this Tender/ Purchase Order/ Work Order/ Agreement regarding the meaning, respective rights, claims, liabilities and obligations under this Tender/ Purchase Order/ Work Order/ Agreement, including any question regarding its existence, validity or termination which is not resolved by amicable settlement shall be settled by arbitration by a sole Arbitrator appointed mutually by both the parties in accordance with the Arbitration and Conciliation Act, 1996 or any enactment or amendment thereof or through online arbitration. Award passed shall be final and binding on both the parties. The venue of such arbitration proceedings shall be at Pune/ Panvel (India) and for interim relief under the Act, courts at Pune/ Panvel shall have the exclusive jurisdiction over this Agreement.

**20) Termination:**

**A.** The Contract/ Tender can be terminated by either party i.e. MAL or the Contractor/Tenderer/ Tenderer, after giving three (3) months' notice to the other party. However, MAL reserves the right to terminate the contract without giving any notice in case of the Contractor/Tenderer fails to commence the work or commits breach of any of the terms of the contract. MAL's decision in such a situation shall be final and binding on the Contractor/ Tenderer without any objection or resistance.

**B.** On termination of the contract, the Contractor/ Tenderer will hand over all the equipment's/ furniture/ article etc. supplied by MAL (if any) in good working condition back to MAL except normal wear and tear.

**C.** If the successful bidder/ Contractor withdraws or the services provided by the successful bidder are not found satisfactory (say in a month or so) during the probationary period of three months from the date of taking over charge /Job contract, MAL reserves the right to terminate the contract with 15 days' notice to improve the services, if the Contractor/Tenderer fails to do so within 15 days then without giving any notice initiate appropriate necessary action in the matter for making alternate arrangements and immediately terminate the contract. The Contractor/Tenderer shall continue till such a time MAL finds an alternative arrangement.

In case it is found that any information furnished by the Tenderer/ Contractor/ Supplier is false or incorrect, the Company at its sole discretion may terminate the Contract/ Order without giving any notice. The Company shall reserve its right to seek appropriate damages from the Tenderer/ Contractor/ Supplier. Any loss incurred by the Company in this respect will be on Suppliers/ Tenderer's account.

**21)** The rates quoted by the suppliers shall remain firm till the completion of the contract period and also during extended period if any. No escalation on any other ground shall be allowed.

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***(Company name, seal and signature of authorized person with Designation)***

(On Contractor/Tenderer's letterhead)

**DETAILS OF BLACKLISTING / DISQUALIFICATION / FORFEITURE OF B.G. / S.D.**

- 1) Whether your Firm/Company is blacklisted by DFPCL/ MAL or any other Public Sector / Govt. / Quasi-Govt Organization / any other client: **Yes / No.**

If yes, please mention details.

- 2) Whether your Contract was terminated before expiry of Contract period or Security Deposit / E.M.D forfeited by our Company or any other Public Sector/ Govt./ Quasi Govt Organization / Any other client: **Yes / No.**

If yes, please mention details.

- 3) Whether Proprietor / Partner / Director (as applicable) has been prosecuted by any judicial court for any criminal breach of trust: **Yes / No.**

If yes, please mention details.

(Signature of the Contractor/Tenderer & Seal)

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***(Company name, seal and signature of authorized person with Designation)***

(On Contractor/Tenderer's letterhead)

**INFRASTRUCTURE / RESOURCES:**

1) Total number of resources employed: \_\_\_\_\_

2) No. of branch offices: \_\_\_\_\_ (details of address, Telephone No. Fax No. etc.)

3) No. of FMS Contracts engaged in Mumbai with Avg value of Contract:

(Signature of the Contractor/Tenderer & Seal)

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(On Contractor/Tenderer's letterhead)

## GENERAL INFORMATION

- 1) Name & address of the Tenderers Firm / Company: \_\_\_\_\_
- 2) Office Telephone No.: \_\_\_\_\_
- 3) Office Fax No.: \_\_\_\_\_
- 4) Year of Establishment: \_\_\_\_\_
- 5) Constitution of the Firm: Proprietorship/Partnership/Pvt. Ltd./ Pub Ltd. Co./Co-operative
- 6) Name, Address of Partner / Directors: \_\_\_\_\_
- 7) Name of contact person: \_\_\_\_\_
- 8) Telephone no. of contact person: Office \_\_\_\_\_
- 9) Residence \_\_\_\_\_
- 10) Mobile \_\_\_\_\_
- 11) Name & Designation of Authorized Signatory: \_\_\_\_\_
- 12) Details of sister concerns
  - a) Name & Address:
  - b) Activities engaged in by Sister Concern:
  - c) Names, Addresses & Telephone Nos. of Proprietors/Directors/Partners of Sister concerns.

(Signature of the Contractor/Tenderer & Seal)

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