

# HINDUSTAN URVARAK & RASAYAN LIMITED

(A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL)

## BARAUNI UNIT

Barauni Urvarak Nagar, Begusarai

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115

[Registered Office SCOPE Minar, Core 4, 9TH Floor, Laxmi Nagar District Center, Delhi-110092]



## SECTION – I

### NOTICE INVITING TENDER (NIT)

**TENDER :** ANNUAL RATE CONTRACT FOR SUPPLY OF SERVICES AND MANPOWER WITH TOOLS AND TACKLES TO CARRYOUT MECHANICAL MAINTENANCE ACTIVITIES AT HURL BARAUNI.

**NIT NO.** HURL/BR/CC/23-24/727



**HINDUSTAN URVARAK & RASAYAN LIMITED, BARAUNI UNIT**  
(A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL)

1.0 HURL (Hindustan Urvarak & Rasayan Limited), Barauni invites on-line bids from eligible Bidders fulfilling the Qualifying Requirements / Pre-Qualification Criteria (PQC) under Two Bid system for aforesaid package.

2.0 **Brief Details**

Published Date	Refer CPP Portal
Bid Document Download / Sale Start Date	Refer CPP Portal
Bid submission Start Date	Refer CPP Portal
Last Date and Time for Bid submission	Refer CPP Portal
Technical Bid Opening Date & Time	Refer CPP Portal
Earnest Money Deposit (EMD) in INR	INR 4,37,694.00
Pre-Bid Conference Date & Time (if any)	Refer CPP Portal
Last Query Date	Refer CPP Portal
Reverse Auction	Shall be intimated later

3.0 EMD/Bid Security shall be submitted online/ electronically by RTGS / NEFT in the account of HURL as mentioned below details by the stipulated bid submission closing date and time. The payment details of Bid security shall be submitted along with the bidding documents. Any bid without an acceptable Bid Security (if applicable) shall be treated as non-responsive by the employer and shall not be opened.

Name of the Bank	:	State Bank of India, Overseas Branch, NEW DELHI (17313)
Account Name	:	Hindustan Urvarak & Rasayan Limited
Account No.	:	00000037880422277.
IFSC Code	:	SBIN0004803.

In case of EMD payment through RTGS/NEFT, Bidder must mention "E727" in the transaction description while making the payment (Refer Clause 14 of Section II-ITB).

4.0 All UDYAM registered vendors -MSE Category are exempted from submission of tender fee & EMD. UDYAM REGISTRATION CERTIFICATE must be submitted online along with the bidding documents to avail the exemption from furnishing the EMD.

MSE bidders seeking benefits of MSE as specified in the Tender Documents, must submit Attested/Self attested copy of UDYAM certificates (as mentioned in clause 4.0 of ITB) failing which no benefit of MSE shall be extended.

5.0 A complete set of Bidding Documents may be downloaded by any interested from the e-tendering Site (<https://eprocure.gov.in/eprocure/app>). Bidder who has downloaded the tender from the Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app>, shall not tamper/modify the tender document/form including downloaded price bid template in any manner. In case the same is found to be tampered/modified in any manner, bid will be



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completely rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with HURL for a period of two years.

Intending Bidders are advised to visit CPPP website <https://eprocure.gov.in/eprocure/app> regularly till closing date of submission of tender for any corrigendum / addendum/ amendment.

Not more than one tender shall be submitted by one bidder/ bidder(s) having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e., when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

### 6.0 Qualifying Requirements / Pre-Qualification Criteria (PQC)

#### 6.1 Commercial Pre- Qualification Criteria

Following is the commercial Pre-Qualification Criteria (PQC) for the subject tender:

<b>Condition 1:</b> Bidder should be either Partnership firm/Sole Proprietor / Limited company.
<b>Documents required (To be Submitted along with technical bid):</b> i) For Proprietorship firm - Name of the proprietor to be mentioned. Affidavit of proprietorship in original duly notarized (Latest). ii) For partnership firms –Affidavit in originals duly notarized, confirming the current status of the firm along with names of the partners or copy of partnership deed duly notarized (latest) to be submitted iii) For limited companies, notarized copy of Certificate of Incorporation, Memorandum & Articles of Association and copy of allotment of Director Identification Number (DIN) number.
<b>Condition 2:</b> The Average Annual financial turnover during the last 3 years financial years should be at least Rs. 65,65,410.00 <b>Note-</b> (i) In case where audited results for the last financial year as on the date of techno-commercial bid opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, Bidder is not able to submit the certificate from practicing Chartered Accountant certifying its financial parameters, the audited results for the three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters, a Certificate would be required from the CEO/CFO as per the format enclosed in the bidding documents stating that financial results of the company are under audit as on the date of techno-commercial bid opening and the certificate from a practicing chartered accountant certifying the financial parameters is not available. (ii) Other income shall not be considered for arriving at annual turnover. (iii) Bidder can either submit Annual turnover for a. FY2020-21, 21-22 & 22-23 with CA certified UDIN. b. FY2019-20, 20-21 & 21-22 with CA certified UDIN. (iv) Only ATO with UDIN shall be considered for Evaluation.
<b>Documents required (To be Submitted along with technical bid)</b>



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“Proof of ATO shall be submitted in the form of Audited Balance Sheet along with statement of Profit & Loss Account certified by Chartered Accountant (CA)”. Unique Document Identification Number (UDIN) No. of CA must be clearly indicated in the above statement.  
NIT Publication date shall be considered for reckoning Annual Turnover (ATO).

**6.2 Technical Pre- Qualification Criteria**

Following are the Technical Pre-Qualification Criteria (PQC) for the subject tender:

**Condition 1: (6.2.1)**

Bidder should have successfully completed **Similar Nature of Work** during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following (value excl. GST & Duties) shall be as follows:

**One similar nature of successfully completed work** costing not less than the amount equal to Rs. 1,75,07,759.00 ‘OR’

**Two similar nature of successfully completed work** each costing not less than the amount equal to Rs. 1,09,42,350.00 ‘OR’

**Three similar nature of successfully completed work** each costing not less than the amount equal to Rs. 87,53,880.00

1. Amount mentioned is exclusive of taxes and duties.
2. The Word “Similar Nature of Work” means “**Bidder should have experience in executing mechanical maintenance of rotary equipment in fertilizer/ Petrochemical/ Hydrocarbon/ Steel/ Power Industry.**”
3. The Total Executed value of the completed order shall be considered for the PQC evaluation.

**Note:**

1. ~~Similar nature of Work order should contain Unit of measurement in Man days or Man months for the respective manpower supplied. Any other items of the work order other than man days or man months shall not be considered for evaluation. If the completion certificate value mismatches with the Work order value, then supplier shall submit the documentary evidence for the actual manpower supplied for the same contract under the manpower supplied on Man days or Man month basis.~~
2. Cost of completed Service order(s), single/two/three mentioned above, is exclusive of GST & Duties and accordingly executed value of the job excluding GST& Duties shall be considered for evaluation of PQC. The duration in which the job is successfully completed shall be considered for evaluation of PQC which is mentioned in 6.2.1 and shall be evaluated on submission of completion certificate with the Purchase order / agreement copy as supportive documents. The purchase order / agreement should contain complete BoQ / SoR with detailed scope of work.

**Documents required (To be Submitted along with technical bid):**

1. Copy of Work Order (WO)/PO/rate contract/ agreement with following details:
  - a. Work order/PO/rate contract/ agreement with number, date and value.
  - b. Name of the client and Period of contract.
  - c. Technical specifications, Complete scope of work and contract terms with SoR / BoQ.
2. Completion Certificate issued by client highlighting below:
  - a. Reference Work order/PO/Rate contract with number, date and value
  - b. Name of the client, Period of Contract
  - c. Executed value with quantity under the Work order/PO/Rate contract/ agreement for the particular financial year mentioned.
  - d. Performance of the contract.



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- e. If the executed amount is missing in the completion certificate issued by the client, the bidder shall submit the certificate issued by CA with UDIN for executed amount for the respective order. The details of the respective order should be mentioned in the same.

**7.0 Documents for PQC:**

- 7.1 BIDDER MUST SUBMIT ANNEXURE-12 of SECTION VI with complete details and all the terms mentioned in the form of note in annexure 12 shall be strictly followed. If the data is not provided in the same HURL reserves the right to reject the bid.
- 7.2 The bidder shall be obligated to furnish an amended copy of the work order in the event that the executed value specified in the completion certificate surpasses the original order value. Failure to comply with this requirement shall grant HURL the right to disqualify the order, and no claims shall be entertained with respect to such occurrences.
- 7.3 The bid Bids will be opened as per date/time as mentioned on the Date specified above or on the date specified on the e-tendering portal. The date of Price-Bid opening will be intimated later on the e-tendering portal.
- 8.0 HURL shall not be responsible for any postal /courier delay for submission of EMD and/or other original documents, if applicable.
- 9.0 HURL reserves the right to reject any or all bids or cancel/withdraw the NIT for the subject package without assigning any reason whatsoever and in such case no bidder/intending bidder shall have any claim arising out of such action.
- 10.0 Bids shall be digitally signed and uploaded by someone legally authorized and competent on behalf of his firm / company i.e., Bidder and relevant documents w.r.t. the same to be uploaded along with the bid by the bidders. **The Power of Attorney of such person needs to be furnished along with bid.** The Power of Attorney to be submitted on Rs. 100/- Non-judicial Stamp paper or on Legal Notary (Duly Notarized).
- 11.0 Bidders are required to submit detailed work orders (similar in nature as defined) along with the work completion certificate endorsed by the client, containing details such as value, quantity, GST, work order reference, actual date of completion, etc. These documents are necessary to fulfill the PQ criteria mentioned and must be submitted with the technical bid. As part of our standard bid evaluation process, HURL reserves the right to request bidders to provide supporting documents for the purpose of verifying the authenticity of bid documents, as well as the information related to quantity, value, or any other relevant details provided in the submitted bid documents. These may include TDS, GSTR forms, Form 26AS, manufacturing license, plant design capacity, production details and other relevant documents. It is important to note that failure to submit the required documents within the stipulated time frame may result in the rejection of the bid.
- 12.0 Wherever executed value is not mentioned in the completion certificate, the copy of certified bills with service tax/GST details as applicable / Separate certificate from respective client (PO issuing company /Engineer In Charge) regarding executed value with GST details, date of completion etc., shall also be accepted towards fulfillment of PQC, if same is submitted along with completion certificate.
- 13.0 Completion certificate submitted by the bidders shall have clarity with respect to whether GST is included/excluded in the supplied value, towards fulfillment of PQC and same shall be ensured by the bidders by submitting proper and relevant documents as required (e.g. separate certificate from respective client regarding GST) along with delivery completion certificate.



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- 14.0 If no clear documents as mentioned above regarding GST / Duties component included/extra/not applicable with respect to the supplied value mentioned in delivery completion certificate is submitted by the bidder & In case GST/duties amount / component is also not specified in the submitted delivery completion certificate, then the amount equivalent to rate of applicable GST/duties as considered by HURL for the subject tender shall be deducted from the value of material supplied mentioned in the completion certificate to arrive at the value of the supplied material without GST/ duties.
- 15.0 Similar ARC and Composite orders submitted for PQC.
- 15.1 Similar ARC (Annual Rate Contract) Jobs that has been successfully completed by the bidder for the originally awarded period shall be considered as completed works even though such ARC is under execution on account of extension. However original term completion should be within the period as indicated in above PQC. Bidder to submit the relevant document along with bid certifying satisfactory completion of the job, executed value of the job and completion date for original period of contract, along with letter of extension of contract, certified by WO issuing company /Engineer In Charge.
- 15.2 If a biannual contract is successfully completed, the order will be considered as two similar types of work. Similarly, if a tri-annual contract is successfully completed, the order will be considered as three similar types of work. Multi-annual contracts will be calculated in the same way, with only the value of one, two, or three years being considered for orders of 1, 2, or 3 similar types of work, subject to the fulfillment of PQC criteria and submission of a work completion certificate. To evaluate this, bidders must submit completion certificates with yearly completion values and required details as stated in PQC criteria 6.2.1. If yearly completion values cannot be provided, bidders must submit a completion certificate with a CA certified copy indicating completion values per year and respective tenure, clearly mentioning UDIN. This is subject to the successful completion of the order within the original awarded period and the requirements outlined in clause 6.2 of Section-1. Bidders must also submit an order amendment copy in case of any extensions, deviations, or other amendments to the order. Failure to submit these documents will result in HURL's right to calculate completion values on a pro-rata basis or using an appropriate calculation method, which will be unquestionable by the bidder.
- ~~15.3 In composite orders where different types and categories of Materials or services are included the evaluation shall be performed considering only the items and its respective values which cover under "Similar nature of work" and accordingly the bidder shall submit the supporting documents. In case of non submission of the said documents, HURL reserves the right to evaluate as per the data provided by the bidder and the evaluation result shall be unquestionable by the bidder. Also, if the bidder does not submit the said documents may lead to rejection of the bid.~~
- 16.0 The GST part of the bill shall be paid only after confirmation of payment from the successful awarded bidder or after confirmation of the corresponding return filed by the contractor from the GST portal. The GST part of the bill shall be withheld till such confirmation.
- 17.0 In case of sub contract orders, credential as sub-contractor for above PQC shall be considered only when such work orders for sub contract have been issued with approval or written permission of end user/owner/consultant of the owner of the contract from the scope of work of which contractor under the contract has sub contracted a part of or entire work under such work order. In this regard, the bidder has to submit a certificate from the end user/owner/consultant of the owner stating that the main contractor has intimated them about the engagement of sub-contracting OR have been allowed/



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permitted as a sub-contractor. Based on such Sub contracted portion of the job actually executed by the bidder as subcontractor, PQC evaluation shall be done i.e. In case only part job is subcontracted, similar job & executed value etc. for the part job only shall be considered for PQC and not the full job.

18.0 Work completion date shall be considered for deciding the period of work experience.

19.0 Evaluation Basis:

19.1 Bidder should submit the Shortfall documents as requested in the portal. If Bidder do not respond to the shortfall, HURL reserves the right to evaluate without shortfall documents considering the available bid documents and in such case no bidder/intending bidder shall have any claim arising out of such action.

19.2 In case tie between two or more bidders at L-1 position, the sole criterion for determining the L1 bidder shall be on the basis of Average Annual Turn Over of the party calculated from ATO of either FY 20-21,21-22 & 22-23 or FY 19-20,20-21,21-22. Bidder having the highest average annual turnover shall be considered as L1 party. If bidder submits ATO for FY 19-20, 20-21, 21-22 and 22-23, then the average ATO of FY 20-21,21-22 & 22-23 and Average ATO of FY 19-20,20-21,21-22 shall be calculated, and Maximum Average ATO shall be taken in to consideration for evaluation. (Ex. Average ATO of FY 19-22 is 1Cr. and Average ATO of FY 20-23 is 1.1Cr. then Average ATO 1.1Cr. of FY 20-23 shall be taken into consideration). NO shortfall shall be raised regarding the ATO if the bidder submits either of any option i.e. FY 20-23 or FY 19-22. MSE and MII preference shall be applicable during the evaluation.

20.0 **Evaluation Criteria:** On item rate basis.

21.0 **Contract Duration / Delivery completion:** The contract duration is for 24 months from the date of award of WO/PO/LOA whichever later, with an option to extend for an additional 12 months based on satisfactory performance, at the same rate, terms, and conditions, subject to mutual consent.

22.0 **Mobilization:** Within 15 days from the date award of order.

23.0 **Effective date of Contract:** From the date of Handover of site / Mobilization.

24.0 **Performance Bank Guarantee:** Bidder must deposit PBG 10% of the contract value in advance. PBG will be refunded after completion of the contract. In case of PBG payment through RTGS/NEFT, Bidder must mention "P727" in the transaction description while making the payment. The SD remains valid for 3 months beyond the completion date of all contractual obligations, including warranty or guarantee or defect liability period, whichever is later. Upon the completion of the mentioned SD duration, the contractor can apply in writing for the refund of the security deposit along with the necessary supporting documents. It is important to note that HURL reserves the right to forfeit the security deposit (SD) or performance bank guarantee (PBG) if the agency fails to fulfill the contract's terms and conditions, neglects their responsibilities, or does not satisfactorily execute the work.

25.0 **Reverse Auction:** Applicable as per HURL's requirement, with decrement value in multiples of INR 25,000 subject to a maximum cap of 50%.

26.0 **Address for Communication.**

From Technical Department:		
Mr. Gopal Krishna Behera Chief Manager (Mechanical) <a href="mailto:gkbehera@hurl.net.in">gkbehera@hurl.net.in</a> Ph: 9937297583	Mr. Pawan Kumar Manager (Mechanical) <a href="mailto:pawankumar@hurl.net.in">pawankumar@hurl.net.in</a> Ph: 7607721690	Mr. Ramesh Kumar Asst. Manager (Mechanical) <a href="mailto:rameshkumar@hurl.net.in">rameshkumar@hurl.net.in</a> Ph: 7248780441





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From Contracts & Materials (C&M) Purchase Department:		
Mr. Ravendran Nagaraju Manager (C&M) <a href="mailto:nagarajuravendran@hurl.net.in">nagarajuravendran@hurl.net.in</a> Ph: 07981902800	Mr. Amit Kumar Burman Officer (C&M) <a href="mailto:amitkrburman@hurl.net.in">amitkrburman@hurl.net.in</a> , Ph.: 06243291724	
From Stores Department:		
Mr. Rakesh Kumar Tiwari Manager (Stores – C&M) <a href="mailto:rakesh.tiwari@hurl.net.in">rakesh.tiwari@hurl.net.in</a> Ph : +91-9431725439	Mr. Raj Kumar Singh Store Assistant - C&M <a href="mailto:rajkumar@hurl.net.in">rajkumar@hurl.net.in</a> Ph : 6355072875	Mr. Chandan Kr. Singh JSA-II – C&M-Stores <a href="mailto:chandankumarsingh@hurl.net.in">chandankumarsingh@hurl.net.in</a> 7903336415
Hindustan Urvarak & Rasayan Limited, Barauni Urvarak Nagar, Begusarai, Bihar – 851115		

**27.0 Checklist of documents to be submitted:**

Sr. No	Documents
1	Techno Commercial Proposal Bid Form. (Enclosed as Annexure-1 of Section VI)
2	Power of Attorney as per requirement mentioned in NIT.
3	Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD) / MSE Certificate with applicable annexure form for exemption.
4	Signed, Stamped and Scanned copy of Certificates like Registration certificate, GST No, PAN No, PF, etc.
5	Signed, Stamped and Scanned copy of Format for Electronics Payment (Enclosed as Annexure-2 to Forms and Procedures i.e., Section VI)
6	Signed, Stamped and Scanned copy of Tender Acceptance Letter (Enclosed as Annexure-3 to Forms and Procedures i.e., Section VI)
7	Documents as required in accordance with Qualifying Requirements / Pre-Qualification Criteria (PQC) i.e., <u>Clause 6</u> of NIT
8	Signed, Stamped and Scanned copy of No deviation Certificate (Enclosed as Annexure-4 to Forms and Procedures i.e., Section VI)
9	Signed, Stamped and Scanned copy of Certificate from CEO/MD/ Legally Authorized Signatory, in the format as enclosed as Annexure-5 to Forms and Procedures i.e., Section VI.
10	Acceptance to Fraud Prevention Policy of HURL, for which the bidder has to submit Signed, Stamped and Scanned copy of Form of Acceptance of Fraud Prevention Policy of HURL. (Enclosed as Annexure-6 to Forms and Procedures i.e., Section VI).
11	Certificate related to Restrictions on procurement from a Bidder of a country which shares a land border with India” i.e. (Enclosed as Annexure-7 to Forms and Procedures i.e., Section VI).
12	Work orders subject to tender for qualification as per Annex – 12 with clearly mentioning Purchase order details relevant to tender based on which PQC can be achieved. Not to be mentioned as “As Attached”/ “mentioned in Bid”/ etc.
13	Declaration of GST (annexure -15) Signed, Stamped and Scanned copy of Declaration of GST (Enclosed as Annexure-15 to Forms and Procedures i.e., Section VI).
14	Signed, Stamped and Scanned copy of Bid Security Declaration Form (Enclosed as Annexure-13 to Forms and Procedures i.e., Section VI).
15	Signed, Stamped and Scanned copy of GCC, SCC & Scope of Work (i.e. Section-V) of tender document.
16	Any Other Document asked for in the Bidding Document





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**Note:** Failure to Upload Authentic and Correct Documents as mentioned at Sr. No, 1 to 16 above would lead to Rejection of Techno- Commercial Bid. Price Bids shall be opened only of those bidders who are qualified and whose techno-commercial bids are acceptable.

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## **BARAUNI UNIT**

Barauni Urvarak Nagar, Begusarai

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115

[Registered Office SCOPE Minar, Core 4, 9TH Floor, Laxmi Nagar District Center, Delhi-110092]



## **SECTION – II**

### ***INSTRUCTIONS TO BIDDERS (ITB)***



## HINDUSTAN URVARAK & RASAYAN LIMITED, BARAUNI UNIT

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1.0	Introduction	<p>Hindustan Urvarak &amp; Rasayan Limited (HURL) is a joint venture company of Coal India Limited (CIL), NTPC Limited (NTPC) and Indian Oil Corporation Limited (IOCL) as the lead promoters with Fertilizer Corporation of India Limited (FCIL) and Hindustan Fertilizer Corporation Limited (HFCL) as other two partners.</p> <p>HURL, Barauni referred to herein as ‘the Employer’, intends to engage an agency for supply of Goods &amp; related Services or Services as per specifications, Scope of Work as detailed in the Bidding documents.</p>												
2.0	General Information	<p>The prospective Bidders are invited to submit a “Technical &amp; Commercial Bid” and “Price Bid” for the package. Methodology for submission of Bid has been detailed hereunder in this document.</p> <p>Applicability of Reverse Auction may be seen on the CPP website / NIT.</p>												
3.0	Content of Bidding Documents	<p>The items and/or services required, bidding procedures, order/contract terms and technical requirements are prescribed in the bidding documents/Bidding Documents.</p> <p>The bidding documents include the following sections:</p> <table><tr><td>Section-I</td><td>Notice Inviting Tender (NIT)/Tender Enquiry/Invitation for Bid (IFB)</td></tr><tr><td>Section-II</td><td>Instruction to bidder (ITB)</td></tr><tr><td>Section-III</td><td>General Conditions of Contract (GCC)</td></tr><tr><td>Section-IV</td><td>Standard Conditions of Contract (SCC)</td></tr><tr><td>Section-V</td><td>Technical specifications, SOR &amp; Scope of work and other terms &amp; condition.</td></tr><tr><td>Section-VI</td><td>Forms and Procedures</td></tr></table> <p>The Bidder is expected to examine all instructions, forms, terms, conditions, specifications and other information in the bidding documents. Failure to furnish all information required as per the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in rejection of its bid.</p>	Section-I	Notice Inviting Tender (NIT)/Tender Enquiry/Invitation for Bid (IFB)	Section-II	Instruction to bidder (ITB)	Section-III	General Conditions of Contract (GCC)	Section-IV	Standard Conditions of Contract (SCC)	Section-V	Technical specifications, SOR & Scope of work and other terms & condition.	Section-VI	Forms and Procedures
Section-I	Notice Inviting Tender (NIT)/Tender Enquiry/Invitation for Bid (IFB)													
Section-II	Instruction to bidder (ITB)													
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Section-V	Technical specifications, SOR & Scope of work and other terms & condition.													
Section-VI	Forms and Procedures													
4.0	Benefits To MSEs	<p>Micro and Small Enterprises (MSEs) shall be exempted from paying Earnest Money Deposit.</p> <p>Further, in case of tenders where splitting of quantity is possible, participating MSEs quoting price within price band of L1 + 15 percent shall also be allowed to supply a portion of requirement by bringing</p>												



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		<p>down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 percent of total tendered value. In case of more than one such MSE, the supply will be shared proportionately (to tendered quantity).</p> <p><b>The benefit as above to MSEs shall be available only for Goods/Services produced &amp; provided by MSEs.</b></p> <p>MSEs seeking exemption and benefits should enclose/upload in e-tender portal an attested/self-certified copy of following registration certificate and <b>BID Security declaration form</b> (Annexure – 13) as a part of his bid, failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.</p> <p>i) Ministry of MSME vide Gazette notification no. CG-DL-E-26062020-220191 dated 26.06.2020 had notified certain criteria for classifying the enterprises as Micro, Small and Medium Enterprises and specified, form and procedure for filing the memorandum (Udyam Registration) w.e.f. 01.07.2020 (for complete details of policy refer website of Ministry of MSME i.e. <a href="https://msme.gov.in/">https://msme.gov.in/</a>) Accordingly, Micro and Small Enterprises (MSEs) shall be required to submit <b>Udyam Registration Certificate</b> for availing benefit under Public Procurement Policy for MSEs- 2012.</p> <p>ii) An enterprise registered prior to 30.06.2020 and who is not re-registered with Udyam Registration, shall continue to be valid for a period up to 31.12.2022. Such enterprise shall submit EM Part-II or Udyog Aadhaar Memorandum (UAM) for availing benefits of PPP-2012. (Ref Notification No. CG-DL-E-19012022-232763)</p>
5.0	<b>Cost of Bidding</b>	<p>The Bidder shall bear all costs associated with the preparation and submission of its bid and the Employer will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.</p>
6.0	<b>Clarification on Bidding Documents</b>	<p>A prospective Bidder requiring any clarification of the Bidding Document shall put the query under Clarification tab of the on-line bid at least three days prior to the clarification end date. EMPLOYER will respond to any request for clarification or modification of the bidding documents that it receives within the time line specified.</p> <p>EMPLOYER will post the Clarifications under Clarification tab at e-tender i.e., CPP website. Bidders can view these clarifications.</p> <p>Bidders are advised to regularly check under Clarification tab regarding posting of clarification, if any.</p> <p>Bidders must check the Clarifications issued before submission of Bid. Should the Employer deem it necessary to amend the Bidding Document as a result of a clarification, it shall do so and upload the</p>





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		amendments in the tender on the e-tender portal.
<b>7.0</b>	<b>Corrigendum/ Amendment to Bidding Documents</b>	<p>At any time prior to the deadline for submission of bids, EMPLOYER may, for any reason, whether at its own initiative, or in response to a clarification requested by a prospective Bidder, amend the bidding documents.</p> <p>The corrigendum's/amendment's will be posted in the tender on the e-tender portal for viewing by the Bidder. The amendments will be binding on Bidders and it will be assumed that the information contained therein will have been taken into account by the Bidder in its bid. Bidders are advised to regularly check the tender regarding posting of Amendments, if any.</p> <p>To give prospective Bidders reasonable time to take the corrigendum/amendment into account in preparing their bid, EMPLOYER may, at its discretion, extend the deadline for the submission of bids.</p>
<b>8.0</b>	<b>Language of Bid</b>	The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Employer, shall be written in English language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English. In such case for purposes of interpretation of the Bid such translation shall govern.
<b>9.0</b>	<b>Bid Proposal</b>	<p>Bid shall be complete in all respects and shall be submitted with requisite information and Attachments. It shall be free from any ambiguity.</p> <p>For preparation of Bids, Bidders are expected to go through the complete bidding documents carefully. Material deficiencies in providing the information requested may result in rejection of the Bid.</p>
<b>10.0</b>	<b>Documents Comprising the Bid</b>	<p>The Bid shall comprise of following components:</p> <p><b>Technical Bid:</b></p> <p>The following documents are to be furnished by the Bidder as part of the Technical Bid:</p> <ol style="list-style-type: none"> <li>Techno Commercial Proposal Bid Form</li> <li>Power of Attorney as per requirement mentioned in NIT.</li> <li>proof for payment of Earnest Money Deposit (EMD)/ MSE Certificate for exemption with Annexure -13.</li> <li>Certificates like Registration certificate, GST No, PAN No. etc.</li> <li>Format for Electronic Payment</li> <li>Tender Acceptance Letter &amp; Letter of authorization to submit bid.</li> <li>Documents as required in accordance with Eligibility Criteria. Bidder must fill all the details in Annexure-12.</li> <li>No deviation Certificate.</li> </ol>



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		<p>i) Certificate from CEO or Managing Director or Legally Authorised Signatory, in the format as enclosed with the Bidding Document certifying that the data and documents furnished by them in respect of Techno-Commercial Evaluation are true and correct including the contents thereof. However, if at any point of time the declarations given in bid are found to be incorrect, HURL shall have the full right to terminate the contract and take any action as per provisions of contract including forfeiture of EMD/Security Deposit.</p> <p>j) Acceptance of Fraud Prevention Policy of HURL,</p> <p>k) Certificate related to Restrictions on procurement from a Bidder of a country which shares a land border with India".</p> <p>l) Any other document asked for in the Bidding Documents.</p> <p>m) Signed and stamp Copy of GCC, SCC, Technical Specification/scope of work and dully filled all annexures.</p> <p><b>Price Bid:</b> The Price bid is to be submitted in the BOQ provided in the Tender at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>. Bidders are advised to fill the BOQ and upload the same on the portal. Bidder should not tamper/modify download price bid template. In case if the same is found to be tampered / modified in any manner, bid will be rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with HURL for a period of 2 years.</p>
11.0	<b>Bid Prices</b>	<p>Bidders shall quote such that the bid price covers all the Supplier's obligations mentioned in or to be reasonably inferred from the bidding documents including all requirements in accordance with the requirements of the Technical Specifications &amp; Scope of Work. Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the bidding documents.</p> <p>Bidders shall give a breakdown of the prices in the manner and detail called for in the Bill of Quantity (BOQ).</p>
12.0	<b>Price Basis</b>	Bidders are required to quote price on the price basis as per Scope of Work / stipulated in the SCC.
13.0	<b>Bid Currencies</b>	All prices to be quoted by the bidders will be in Indian Rupees only, unless otherwise mentioned in the Special Conditions of Contract, on <b>FIRM</b> price basis and to remain valid during the currency of the Contract.
14.0	<p><b>EARNEST MONEY DEPOSIT (EMD) / BID SECURITY / GUARANTEE:</b></p> <p>i. The Bidder shall furnish, as part of his bid, Earnest Money Deposit in the amount as stipulated in NIT/IFB/Tender Enquiry, in the form of online payment mode by RTGS / NEFT in the account of HURL details as given in subsequent paragraphs. The receipt of the payment shall be attached as a part of bidding documents. If the</p>	



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EMD is paid other than online mode then the EMD shall be submitted in a separate Envelope super-scribed on the top as under:

***"ORIGINAL EARNEST MONEY DEPOSIT FOR NIT NO. ....DATED.....  
FOR ..... (NAME OF PACKAGE) ..... DUE ON ..... (DATE OF BID OPENING)  
FROM ..... (NAME OF THE BIDDER)."***

ii. The Earnest Money Deposit (EMD) shall, at Bidders option, be submitted in the following forms:

a) electronically by RTGS / NEFT in the account of HURL details as given in subsequent paragraphs

or

b) in the form of Demand Draft in favour of *Hindustan Urvarak & Rasayan Limited*, Payable at New Delhi.

or

c) in the form of an irrevocable bank guarantee.

The format of Bid Guarantee (BG) towards EMD shall be in accordance with the form of EMD included in the bidding documents (Annexure 8 of Section VI (Forms and Procedures)). The BG towards EMD shall remain valid for a period of forty-five (45) days beyond the original Bid validity period or beyond any extension in the period of Bid validity subsequently requested from any Scheduled / Commercial Bank recognized by Reserve Bank of India. The Bank Guarantee Verification Checklist duly filled in as per format given in the Bidding Documents is also to be submitted. Bidder shall ensure that all the points of check list are replied in "Yes".

iii. Wherever Bids under Joint Venture route are permitted as per Qualifying Requirement in the Bidding Documents, the Earnest Money Deposit of the Joint Venture must be on behalf of all the partners of the Joint Venture.

iv. Any bid not accompanied by an acceptable Earnest Money Deposit in accordance with the aforesaid provisions shall be rejected by the Employer as being non-responsive and shall be rejected without being opened.

v. The Earnest Money Deposit shall be forfeited in any of the following circumstances without any notice or proof of damage to the Employer:

a) If the Bidder withdraws or varies its bid during the period of Bid validity.

b) If the Bidder does not accept the Arithmetical correction of its Bid Price

c) If the Bidder refuses to withdraw, without any cost to the Employer, any deviation, variation, additional condition or any other mention anywhere in the bid, contrary to the provisions of bidding documents;

d) In the case of a successful Bidder, if the Bidder fails, within the time limit,

(i) to sign the Contract Agreement

(ii) to furnish the required Security Deposit

e) If the bidder / his representatives commit any fraud while competing for this contract pursuant to Fraud Prevention Policy of HURL.

f) if the Bidder withdraws/ amends, impairs and derogates from the tender.



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	<p>vi. No interest will be payable by the Employer on the said amount covered under Earnest Money Deposit.</p> <p>vii. EMD shall be refunded to all the unsuccessful Bidder within thirty days of acceptance of work order by the successful Bidders and no interest shall be payable thereon. EMD of the bidders whose price are not considered to be opened, shall be released/refunded at the earliest but not later than thirty days beyond the award of the subject work.</p> <p>EMD shall be refunded to successful bidder within (30) thirty days of acceptance of LOA and on submission of PBG by the successful Bidders and no interest shall be payable thereon.</p> <p>viii. RTGS / NEFT details of HURL as under:            BANK Details for EMD Payment through NEFT/RTGS:            Bank Name—State Bank of India, Overseas Branch, NEW DELHI (17313)            IFS CODE: SBIN0004803, Account No: 00000037880422277.</p> <p><b>Bidders are required to upload Signed, Stamped and Scanned copy of the Certificate as part of Technical Bid, failing to which their bids are liable for rejection.</b></p> <p>Price Bids shall be opened only of those bidder(s) whose EMD shall be found as per the requirement of the bidding documents.</p> <p>Employer shall not be liable for loss/non-receipt/late receipt of above documents in postal transit.</p> <p><b>Exemption from submission of EMD:</b>            Micro and Small Enterprises (MSEs) bidders are exempted from submission of EMD as per provisions at clause 4.0 above and shall submit Annexure – 13.</p> <p><b>IMPORTANT:</b>            IN CASE OF EMD PAYMENT THROUGH RTGS / NEFT, BIDDER MUST MENTION “<b>EXXX</b>” (As per Section I, clause 3.0) IN TRANSCATION DESCRIPTION WHILE DOING THE PAYMENT. “XXX” to be replaced with the last three digits of the tender reference number.            (Example: Tender No.: HURL/BR/CC/22-23/432 then the payment description to be mentioned as “E432”)</p>		
<p style="text-align: center;"><b>15.0</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; vertical-align: top;"> <p><b>Performance Security / Performance Bank Guarantee (PBG)</b></p> </td><td style="vertical-align: top;"> <p>Within thirty (30) days of the receipt of Purchase Order/Service Order from the Employer, the contractor shall furnish the Contract Performance Security / Guarantee, for the due performance of the Contract for the value as tabulated below with an initial validity up to ninety (90) days beyond the completion date for work plus defect liability period (if any), for due performance of the Contract(s)/Order(s) in any form acceptable to the Employer.</p> <p>PBG amount equivalent to 10% of the work order value shall be applicable.</p> <p>Performance Security / Performance Bank Guarantee (PBG) may be submitted in any of the following forms:</p> <p style="margin-left: 40px;">a) electronically by RTGS / NEFT in the account of HURL details of which are given in bidding document</p> </td></tr> </table>	<p><b>Performance Security / Performance Bank Guarantee (PBG)</b></p>	<p>Within thirty (30) days of the receipt of Purchase Order/Service Order from the Employer, the contractor shall furnish the Contract Performance Security / Guarantee, for the due performance of the Contract for the value as tabulated below with an initial validity up to ninety (90) days beyond the completion date for work plus defect liability period (if any), for due performance of the Contract(s)/Order(s) in any form acceptable to the Employer.</p> <p>PBG amount equivalent to 10% of the work order value shall be applicable.</p> <p>Performance Security / Performance Bank Guarantee (PBG) may be submitted in any of the following forms:</p> <p style="margin-left: 40px;">a) electronically by RTGS / NEFT in the account of HURL details of which are given in bidding document</p>
<p><b>Performance Security / Performance Bank Guarantee (PBG)</b></p>	<p>Within thirty (30) days of the receipt of Purchase Order/Service Order from the Employer, the contractor shall furnish the Contract Performance Security / Guarantee, for the due performance of the Contract for the value as tabulated below with an initial validity up to ninety (90) days beyond the completion date for work plus defect liability period (if any), for due performance of the Contract(s)/Order(s) in any form acceptable to the Employer.</p> <p>PBG amount equivalent to 10% of the work order value shall be applicable.</p> <p>Performance Security / Performance Bank Guarantee (PBG) may be submitted in any of the following forms:</p> <p style="margin-left: 40px;">a) electronically by RTGS / NEFT in the account of HURL details of which are given in bidding document</p>		



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		<p>or</p> <p>b) in the form of an irrevocable bank guarantee in accordance with the form of included in the bidding documents (Annexure 9 of Section VI (Forms and Procedures)) from any Nationalized bank / Scheduled Bank recognised by Reserve Bank of India.</p> <p>Failure of the supplier to submit the above-mentioned Performance Security / Performance Bank Guarantee (PBG) shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.</p> <p>No interest shall be payable by the Employer to the Contractor against the Security Deposit furnished.</p> <p>Performance Security shall be returned after Certification of completion of work and Defect Liability period (if any) by EIC. However, the contractor will have to apply in writing, for refund of the same.</p> <p><b>IMPORTANT:</b></p> <p>IN CASE OF PBG PAYMENT THROUGH RTGS / NEFT, BIDDER MUST MENTION “PXXX” IN TRANSCATION DESCRIPTION WHILE DOING THE PAYMENT. “XXX” to be replaced with the last three digits of the tender reference number.</p> <p>(Example: Tender No.: HURL/BR/CC/22-23/432 then the payment description to be mentioned as “P432”)</p>
16.0	Confirmation of BGs through Structured Financial Messaging System (SFMS)/SWIFT	<p>While issuing the physical BGs, the Bidder’s Bank shall also send electronic message through secure SFMS (in case of BGs issued from within India) or SWIFT (in case of BGs issued from outside India) to Employer’s Beneficiary Bank whose details are provided in the Special Purchase Conditions.</p> <p><b>Bidders are advised to ensure that the message is sent by their Bankers and the Bidders must submit the reference details as part of the bid with the EMD.</b></p> <p><u>Name of Beneficiary of Bank Guarantee:</u></p> <p>Name of the Bank: <b>State Bank of India</b></p> <p>Account Name-Hindustan Urvarak &amp; Rasayan Limited</p> <p>Account no-37880422277</p> <p>IFSC code- SBIN0004803.</p> <p>In case of submission of EMD in the form of Bank Guarantee, bidders are requested to provide the Details like Bank Name, Branch address, IFSC code and Branch E-mail Id of BG issuing Branch on EMD submission covering letter</p>
17.0	Ineligibility For Future Tenders	<p>Notwithstanding the provisions regarding forfeiture of Earnest Money Deposit specified above, if a bidder after having been issued the Purchase Order/Contract, either does not accept the Purchase</p>



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		<p>Order/Contract or does not submit an acceptable Performance Security and which results in tender being annulled then such bidder shall be treated ineligible for participation in the present and future tenders issued from HURL - Barauni for a period of 6 months from the date of withdrawal of the purchase order / contract or last communication date of notice issued by HURL, whichever is earlier.</p> <p>If a bidder after opening of tenders where EMD is 'NIL/Not applicable' or exempted for bidders as per policy guidelines, withdraws its offer within the validity period of the offer, then such bidder shall be treated as ineligible for participation in the present and future tenders issued from HURL - Barauni for a period of 6 months from the date of withdrawal of the bid.</p> <p>If a bidder after having been issued the Notification of Award/Purchase Order of a package where EMD is 'NIL/Not applicable' or exempted for bidder as per policy guidelines, either does not accept the Notification of Award/Purchase Order or does not submit an acceptable Performance Security pursuant to ITB Clause titled 'Performance Security', and which result in tender being annulled then such bidder shall be treated ineligible for participation in the present &amp; future tenders issued from HURL - Barauni for a period of 6 months from the date of withdrawal of the purchase order / contract or last communication date of notice issued by HURL, whichever is earlier.</p>
18.0	<b>Period of Validity of Bids (Techno-Commercial Bid and Price Bid)</b>	<p>Bids shall remain valid for a period of 180 days from the closing date prescribed by EMPLOYER for the receipt of bids, unless otherwise specified in Special Conditions of Contract (SCC). A bid valid for a shorter period shall be rejected by EMPLOYER as being non-responsive.</p> <p>In exceptional circumstances, EMPLOYER may solicit the Bidder's consent to an extension of the bid validity period. The request and responses thereto shall be made in writing by post or email or by telefax followed by post confirmation. If a Bidder accepts to extend the period of bid validity, the validity of Earnest Money Deposit shall also be suitably extended. A Bidder may refuse the request without forfeiting its Earnest Money Deposit. A Bidder granting the request will not be required nor permitted to modify its bid.</p>
19.0	<b>Nil Deviation</b>	<p><b>No deviation, whatsoever, is permitted by EMPLOYER to any provision of Bidding Documents.</b> The Bidders are advised that while making their Bids and quoting prices, all conditions are appropriately taken into consideration. Bidders shall certify their compliance to the complete Bidding Documents as per Certificate at Annexure 4 of Section VI (Forms and Procedures).</p> <p>In case the Products and/or Services offered do not meet the Technical requirements, the bid shall be rejected as Technically non-</p>





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		<p>responsive.</p> <p>Bidders may note that in case the Bidder refuses to withdraw additional conditions/deviations/variations/exception, implicit or explicit, found anywhere in the techno-commercial bid, the bid shall be rejected as Technically non-responsive.</p> <p>Bidders may also note that any deviation/variation in any form in the Price Bid shall result in forfeiture of EMD.</p>
20.0	<b>Format and Signing of Bid</b>	<p>The bid including all documents uploaded in the on-line bid shall be digitally certified by a duly authorised representative of the Bidder to bind him to the contract using Class II or Class-III digital signature (in the name of designated individual with Organisation name). The Digital Signature shall be as per Indian IT Act from the licensed Certifying Authorities (CA) operating under the Root Certifying Authority of India (RCAI) namely Controller of Certifying Authorities (CCA) of India.</p> <p>An authorisation letter/power of attorney indicating that the person signing the bid has the authority to sign the bid is to be submitted in Physical form and copy uploaded as part of the Techno-commercial Bid.</p>
21.0	<b>Submission of Bids</b>	Bid shall be submitted through e-tender mode in the manner specified elsewhere in bidding document. No Manual/ Hard Copy of the Bid shall be acceptable except those asked for in Physical form.
21.1	<b>PHYSICAL BID</b>	
	<b>EMD</b>	<p>The Bidder shall furnish, as part of his bid, a Earnest Money Deposit in the amount as stipulated in NIT/IFB/Tender Enquiry, in a separate envelope (in case paid in modes other than on-line payment) superscribed on the top as under:</p> <p><del>“ORIGINAL EARNEST MONEY DEPOSIT FOR NIT NO. .... DATED..... FOR ..... (NAME OF PACKAGE) ..... DUE ON ..... (DATE OF BID OPENING) FROM ..... (NAME OF THE BIDDER).”</del></p>
21.2	<b>ON-LINE</b>	<p>Bid along with all the documents should be submitted in the electronic form only through e-Tendering system.</p> <p>Any revision or amendment in bid shall be possible only up to the due date and time of submission of tender.</p>
21.2.1	<b>Techno-Commercial Bid</b>	
(A)	<b>COVER TYPE – FEE</b>	MSEs seeking exemption and benefits should enclose/upload in e-tender portal a attested/self-certified copy of registration certificate as a part of his bid, failing which they run the risk of their bid being



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		passed over as ineligible for the benefits applicable to MSEs.
(B)	<b>COVER TYPE – TECHNICAL</b>	<p>The bidders shall upload documents in compliance to the Bidding Documents.</p> <p>The following documents are to be furnished by the Bidder as part of the Technical Bid:</p> <ol style="list-style-type: none"> <li>Techno Commercial Proposal Bid Form (Enclosed as Annexure-1 to Forms and Procedures i.e., Section VI)</li> <li>Power of Attorney as per requirement mentioned in NIT.</li> <li>Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD)/ MSE Certificate.</li> <li>Signed, Stamped and Scanned copy of Certificates like Registration certificate, GST No, PAN No. etc.</li> <li>Signed, Stamped and Scanned copy of Format for Electronics Payment (Enclosed as Annexure-2 to Forms and Procedures i.e., Section VI)</li> <li>Signed, Stamped and Scanned copy of Tender Acceptance Letter &amp; Letter of authorization to submit bid (Enclosed as Annexure-3 to Forms and Procedures i.e., Section VI)</li> <li>Documents as required in accordance with Eligibility Criteria i.e., <u>Clause 6</u> of NIT</li> <li>Signed, Stamped and Scanned copy of No deviation Certificate Enclosed as Annexure-4 to Forms and Procedures i.e., Section VI)</li> <li>Signed, Stamped and Scanned copy of Certificate from CEO or Managing Director or Legally Authorised Signatory, in the format as enclosed as Annexure-5 to Forms and Procedures i.e., Section VI to Bidding Document shall be furnished certifying that the data and documents furnished by them in respect of Techno-Commercial Evaluation are true and correct including the contents thereof. However, if at any point of time the declarations given in bid are found to be incorrect, HURL shall have the full right to terminate the contract and take any action as per provisions of contract including forfeiture of EMD/Security Deposit.</li> <li>Acceptance to Fraud Prevention Policy of HURL, for which the bidder has to submit Signed, Stamped and Scanned copy of Form of Acceptance of Fraud Prevention Policy of HURL.</li> </ol>



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		<p>(Enclosed as Annexure-6 to Forms and Procedures i.e., Section VI)</p> <p>k) Certificate related to Restrictions on procurement from a Bidder of a country which shares a land border with India". (Enclosed as Annexure-7 to Forms and Procedures i.e., Section VI)</p> <p>l) Declaration of GST</p> <p>m) Any other document asked for in the Bidding Documents.</p> <p><b>Note: -</b></p> <p>Bidders are requested to upload the clearly visible documents only otherwise if not clearly visible then offer shall be liable for rejection without any further communication. <b>The Techno-Commercial Bid should not contain any price content entry. In case, the Techno-Commercial Bid is found to contain any price content, such bid shall be liable for rejection.</b></p> <p>Checklist of documents to be submitted is enclosed as Annexure-1 to ITB.</p>
21.2.2	<b>Price Bid</b> (COVER TYPE – <b>FINANCE)</b>	<p>The Price bid is to be submitted in the BOQ provided in the Tender at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>.</p> <p>Bidders are advised to fill the BOQ and upload the same on the portal. Bidder should not tamper/modify download price bid template. In case if the same is found to be tampered / modified in any manner, bid will be rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with HURL for a period of 2 years.</p> <p><b>Bidders shall necessarily submit the prices on-line in the Bill of Quantity (BOQ) only.</b></p> <p>For preparation of the "Price Bid", Bidders are expected to take into account the requirements and conditions of the bidding documents. The Price Bid shall be made in the 'BOQ' (excel file) only of Bidding Documents.</p> <p>The rate quoted by the bidder shall be inclusive of all provisions for incidental expenses necessary for proper execution and completion of the work in accordance with the terms &amp; condition of the bidding document.</p> <p>All prices to be quoted by the bidders will be in Indian Rupees only, unless otherwise mentioned in the Special Conditions of Contract, on FIRM price basis and to remain valid during the currency of the Contract.</p>



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Documents to be uploaded in the format stipulated in the tender (online).		
	<b>Note:</b>	In case of Single Stage Two envelope bidding, Price Bid of those bidders whose bids are found to be qualified and technically & commercially responsive shall be opened at a later date under intimation to such bidders.
<b>22.0</b>	<b>Deadline for Submission of Bids</b>	<p>Bids must be submitted online no later than the time and date stated in the Tender Enquiry/NIT/ on line Tender details.</p> <p><del>The Off-line bid specified in the tender must be submitted to the Employer at the address given in the Special Conditions of Contract before the last date &amp; Time for submission of Bid as specified in the NIT / Tender. Employer shall not be liable for loss/non-receipt/late receipt of above documents in postal transit.</del></p> <p>The on-line Bid must be submitted on the system well before the expiry of time and the schedule specified in the tender notifications, and may note that there is a time lag between the actual placing the bid on the local computer of the bidder and the refreshing of the data on the server.</p> <p>The processing time for data exchange depends on the internet speed of the bidder, therefore bidder should avoid the last-minute hosting of their bid. The bids visible to the Employer will be final for the purpose of acceptance.</p> <p>EMPLOYER may, at its discretion, extend this deadline for submission of bids, in which case all rights and obligations of Employer and Bidders will thereafter be subject to the deadline as extended.</p>
<b>23.0</b>	<b>Modification and Withdrawal of Bids</b>	<p>The Bidder may modify or withdraw its bid after submission prior to the deadline prescribed for bid submission. In case of withdrawal a letter giving the reason for withdrawal is to be uploaded. Once a bid is withdrawn, the bid cannot be re-submitted.</p> <p>No bid may be withdrawn / modified in the interval between the bid submission deadline and the expiration of the bid validity period. Withdrawal/Modification of a bid during this interval may result in the Bidder's forfeiture of its Earnest Money Deposit, pursuant to ITB Clause 14 above.</p>
<b>24.0</b>	<b>Opening of Bids</b>	
	<b>Techno-Commercial Bid Opening</b>	The Employer will first open the Techno-Commercial Bid on the date and at the place specified in the tender enquiry/NIT. In the event of the specified date for the opening of bids being declared a holiday for EMPLOYER, the bids will be opened at the appointed time on the next working day. All important information and other



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		<p>such details as EMPLOYER, at its discretion, may consider appropriate, will be announced at the opening.</p> <p>Technical Bid shall be opened for evaluation.</p> <p>In case of Single Stage Two Envelope bidding, the Price Bid will remain unopened and the date and time for opening of price bids shall be intimated separately on the CPP website by EMPLOYER after completion of evaluation of Techno-Commercial Bids.</p>
	<b>Price Opening Bid</b>	<p>In case of Single Stage Single Envelope bidding, the Price Bid will be opened on the date and time for opening of bids specified after opening of Techno-commercial bids as specified above.</p> <p>In case of Single Stage Two Envelope bidding, after the evaluation process of Techno-Commercial bid is completed, the date and time for opening of price bids shall be intimated separately by Employer. Bidders, whose Techno-Commercial Bid is not substantially responsive, their Technical Bid shall be rejected and their Price bid will also be rejected &amp; shall not be opened and their Earnest Money Deposit shall be returned.</p> <p>Price bids of those Bidders, who have been considered qualified and whose Techno-commercial Bid is found to be responsive, will be opened online in presence of the Bidder's authorised representatives who choose to attend.</p> <p><b>The participating bidders will be able to view the bid prices of all the bidders after online opening of Price Bids by Employer on the e-tender portal.</b></p>
<b>25.0</b>	<b>Clarification on Bids</b>	<p>During bid evaluation, EMPLOYER may, at its discretion, ask the Bidder for a clarification of its bid including documentary evidence pertaining to the Purchase Orders/Contracts executed declared in the bid for the purpose of meeting Qualifying Requirement specified in NIT/IFB. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid including substitution of Purchase Orders/Contracts executed in the bid by new/additional Purchase Orders/Contracts executed for conforming to Qualifying Requirement shall be sought, offered or permitted.</p> <p>For this purpose, only 1 chance, shall be given. If the techno-commercial acceptability of bidder is established upon verification of documents including clarifications submitted, the case shall be considered for further processing. If the bidder happens to be defaulter upon verification of the documents or has not uploaded the required document within the mentioned time frame his bid would be analyzed based on the uploaded documents and if found not in order as per requirement, would be outrightly rejected.</p>



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<b>26.0</b>	<b>Preliminary Examination Of Techno-Commercial Bids</b>	<p>EMPLOYER will examine the bids to determine whether they are complete, whether required securities have been furnished, whether the documents have been properly signed and whether the bids are generally in order.</p> <p>Prior to the detailed evaluation, the Employer will determine whether the bid is of acceptable quality, is generally complete and is substantially responsive to the bidding document. For purpose of this determination, a substantially responsive bid is one that conforms to all the terms, condition and specifications of the bidding documents without material deviations, objections, conditionality or reservations.</p> <p>A material deviation, objection, conditionality or reservation is</p> <ul style="list-style-type: none"> <li>(i) that effects in any substantial way the scope quality or performance of the contract.</li> <li>(ii) that limits in any substantial way inconsistent with the bidding document the Employers right or the successful bidders obligation under the contract or</li> <li>(iii) whose rectification would unfairly affect the competitive position of other bidders who are presenting substantially responsive bids.</li> </ul> <p>Material deficiencies in the bid may render the bid non-responsive and may lead to the rejection of the bid.</p> <p>EMPLOYER's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. If a bid is not substantially responsive, it will be rejected by EMPLOYER, and may not subsequently be made responsive by the Bidder by correction of the nonconformity.</p>
<b>27.0</b>	<b>Evaluation Of Techno-Commercial Bids</b>	<p>EMPLOYER will carry out a detailed evaluation of the Techno-Commercial bids (of the qualified bidders shortlisted as above) previously determined to be substantially responsive in order to determine whether the technical and commercial aspects are in accordance with the requirements set forth in the bidding documents. In order to reach such a determination, EMPLOYER will examine and compare the technical and commercial aspects of the bids on the basis of the information supplied by the bidders. Bidder may note that no deviation, whatsoever, is permitted by EMPLOYER to any provisions of Bidding Documents.</p> <p>In case the Bidder refuses to withdraw additional conditions/deviations/variations/exception, implicit or explicit, found anywhere in the bid in respect of techno-commercial requirements of the bidding documents, without any financial implication whatsoever to the Employer, the bid shall be rejected as technically non-responsive. Product(s) and/or service(s) not meeting</p>





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		the specified technical requirements & scope work, shall be rejected.
<b>28.0</b>	<b>Preliminary Examination Of Price Bid</b>	<p>The Employer will examine the Price bids to determine whether they are complete, whether any computational errors have been made, and whether the bids are generally in order.</p> <p>In case any additional conditions/deviations/variations/exception, implicit or explicit, is found anywhere in the Price bid, the Earnest Money Deposit shall be forfeited.</p>
<b>29.0</b>	<b>Discrepancies In Bid</b>	<p>In case of discrepancies in the bid, the following will be adopted to correct the discrepancies for Arithmetical for the purpose of evaluation.</p> <p>a) In case of discrepancy between unit price in figures and words, the unit price words will be considered as correct.</p> <p>b) In case of discrepancy between unit price and total price, the unit price will be considered as correct.</p> <p>d) In case of discrepancy between unit price and total price, which is obtained by multiplying the unit price and quantity, or between sub-totals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected accordingly.</p>
<b>30.0</b>	<b>Evaluation Criteria</b>	<p>The evaluation criteria specified in Special Conditions of Contract (SCC) shall over-ride all other similar related clauses appearing elsewhere in the bidding documents.</p> <p>The evaluation shall be based on the evaluated cost of fulfilling the contract in compliance with all commercial, contractual and technical obligations under this Bidding Document.</p>
<b>31.0</b>	<b>Evaluation Of Bids</b>	<p>a) The Employer shall evaluate each Bid that has been determined, up to this stage of the evaluation, to be substantially responsive.</p> <p>b) To evaluate a Bid, HURL shall only use all the criteria and methodologies defined in this document.</p> <p>c) To evaluate a Bid, HURL shall consider the following:</p> <ul style="list-style-type: none"> <li>• The bid price as quoted as per Bill of Quantity (BOQ)</li> <li>• Price adjustment for correction of discrepancy.</li> <li>• Price adjustment due to Price Preference, pursuant to ITB clause 4.0, if applicable</li> <li>• Price adjustment due to Price Preference due to any other condition specified in Special Purchase Condition;</li> <li>• Price adjustment due to application of the evaluation criteria.</li> </ul>
<b>32.0</b>	<b>Contacting The Employer</b>	Subject to ITB clause 25.0 above, no Bidder shall contact the Employer on any matter relating to its bid, from the time of the opening of Bids to the time the contract is awarded.



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		Any effort by a Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.
<b>33.0</b>	<b>Employer's Right To Accept Any Bid And To Reject Any Or All Bids</b>	The Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids at any time prior to Contract award, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder(s) of the grounds for the Employer's action.
<b>34.0</b>	<b>Award Criteria</b>	<p>Subject to ITB Clause 33, the Employer will award the contract to the successful Bidder whose bid has been determined to be substantially responsive to the Bidding Documents and qualified to perform the contract satisfactorily, as per methodology specified in Special Conditions of Contract (SCC).</p> <p>The Bidder will be required to comply with all requirements of the Bidding Documents without any extra cost to the Employer, failing which his Earnest Money Deposit will be forfeited.</p>
<b>35.0</b>	<b>Construction of Contract</b>	<p>If required, HURL may place separate Orders for supplies and Services.</p> <p>The award of separate Purchase Orders shall not in any way dilute the responsibility of the Supplier for the successful completion of the Facilities as per Contract documents and a breach in one Purchase Order shall be construed as a breach of the other Purchase Order(s) which will confer a right on the Employer to terminate the other Contract(s) also at the risk and cost of the Supplier.</p> <p>The total value of all the orders shall be the Total Package value.</p>
<b>36.0</b>	<b>Notification of Award</b>	Prior to the expiration of the period of bid validity, the Employer will notify the successful Bidder in writing by email or letter or by telefax to be confirmed in writing by letter sent by Speed Post/Registered/courier, that its bid has been accepted. The notification of award (Purchase/Service Order) will constitute the formation of the contract and shall be effective from the date of award or the date as specified in Special Conditions of Contract (SCC).
<b>37.0</b>	<b>Corrupt or Fraudulent Practices</b>	<p>Employer requires that Bidders, Contractors and Suppliers observe the highest standard of ethics during the procurement and execution of the contracts. In pursuance of this policy, Employer:</p> <p>(a) defines, for the purposes of this provision, the terms set forth below as follows:</p> <p>(i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract</p>



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		<p>execution; and</p> <p>(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition;</p> <p>(b) will reject a bid for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;</p> <p>(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing a contract of the Employer.</p>
38.0	<b>Fraud Prevention Policy</b>	<p>The Bidders/ Service Providers/ Vendors/ Consultants etc. shall strictly adhere to the Fraud Prevention Policy of HURL displayed on its website <a href="http://www.hurl.net.in">http://www.hurl.net.in</a> and shall not indulge or allow anybody else working in their organization to indulge in fraudulent activities and immediately apprise HURL of the fraud/suspected fraud as soon as it comes to their notice. A certificate to this effect shall be furnished by the bidder along with his bid, in relevant attachment as per format enclosed (Annexure 6 of Section VI (Forms and Procedures)) with the Bidding Document.</p> <p>If in terms of above policy, it is established that the bidder/his representatives have committed any fraud while competing for this contract then the Earnest Money Deposit shall be forfeited.</p>
39.0	<b>Banning Policy</b>	Business dealings may be withheld or banned with the Contractor on account of any Default by the Contractor under Clause 44.
40.0	<b>Indian Agents</b>	<p>In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product.</p> <p>If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit bid on behalf of another Principal/OEM in the same tender for the item/product.</p>
41.0	<b>Transfer of Bid Documents</b>	<p>a. Transfer of Bidding documents is not permissible.</p> <p>b. Documents purchased / downloaded by the intending bidders cannot be transferred.</p>
42.0	<b>Restrictions on procurement from a Bidder</b>	<p>i. Any Bidder (including its Collaborator/Associate/DJU Partner/JV partner/Consortium Member/Assignee, wherever applicable) from a country which shares a land border with</p>

	<p><b>of a country which shares a land border with India</b></p>	<p>India will be eligible to bid in this tender only if bidder is registered with the Competent Authority.</p> <p>Such registration should be valid for the entire period of bid validity or any extension thereof. However, in case the validity period of registration is less than bid validity period, the Bidder shall be required to submit the extension of the validity period of registration before the opening of price bids, failing which the bid shall be rejected.</p> <p>Further the successful bidder shall not be allowed to sub-contract works to any "Sub-contractor" from a country which shares a land border with India unless such Sub-contractor is registered with the competent Authority as mentioned in SCC.</p> <p>However, the said requirement of registration will not apply to bidders/sub-contractors from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Bidders may apprise themselves of the updated lists of such countries available in the website of the Ministry of External Affairs.</p> <p>ii. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.</p> <p>iii. "Sub-contractor" (including the term 'Sub-vendor'/Sub-supplier' in certain contexts) means any person or firm or company, every artificial juridical person not falling in any of the descriptions of Sub-contractors stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.</p> <p>iv. "Bidders from a country which shares a land border with India" / "Sub-contractor from a country which shares a land border with India" mentioned in para above means;</p> <p>a) An entity incorporated, established or registered in such a country; or</p> <p>b) A subsidiary of an entity incorporated, established or registered in such a country; or</p> <p>c) An entity substantially controlled through entities incorporated, established or registered in such a country; or</p> <p>d) An entity whose beneficial owner is situated in such a country; or</p> <p>e) An Indian (or other) agent of such an entity; or</p> <p>f) A natural person who is a citizen of such a country; or</p> <p>g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.</p> <p>v. The beneficial owner for the purpose of clause "iv" above will</p>
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		<p>be as under;</p> <p>a) In case of company of Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.</p> <p>Explanation-</p> <p>i. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;</p> <p>ii. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholdings or management rights or shareholders agreements or voting agreements;</p> <p>b) In case of a partnership firms, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more judicial person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;</p> <p>c) In case of an unincorporated associations or body of individuals, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;</p> <p>d) Where no natural person is identified under (a) or (b) or (c) above, the beneficial owner is the relevant natural person who holds the position of senior managing officials;</p> <p>e) In case of a trust, the identifications of beneficial owner(s) shall include identification of the author of trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.</p> <p>vi. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.</p> <p>vii. In regard to "Restrictions on procurement from a Bidder of a country which shares a land border with India" bidder has to submit Certificate as per Annexure 7 of Section VI (Forms and Procedures) of the bidding document.</p>
43.0	<p><b>Preference to Make In India (MII) and granting of purchase preference to local suppliers.</b></p>	<p>Preference to Make in India and Eligibility for participation/ granting of purchase preference to Class-I local suppliers.</p> <p>Preference shall be given to bidders as per the policy "Public Procurement (Preference to Make in India), Order 2017- Revision order No. 45021/2/2017-BE-II and amendments".</p> <p>Bidder must submit Annexure 14 of section VI for participating in Preference to MII.</p>



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		<p>For order preference, MSE guidelines mentioned above in 4.0 read in conjunction with “Preference to Make in India and granting of purchase preference to local suppliers” mentioned in</p> <p>The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids.</p>
<b>44.0</b>	<b>Termination of contract</b>	<p>If the Contractor:</p> <ul style="list-style-type: none"> <li>(a) at any time makes default in proceeding with the Works with due diligence and continues to do so after a notice of seven (7) days in writing from the Engineer-in-Charge; or</li> <li>(b) commits default in complying with any of the terms and conditions of Contract and does not remedy it or take effective steps to remedy it within seven (7) days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or</li> <li>(c) fails to complete the Works or items of Work with individual dates of completion, on or before the date(s) of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge; or</li> <li>(d) shall offer, or give or agree to give to any person in Employer's service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or having done or forborne to do any act in relation to the obtaining or execution of this or any other Contract for the Employer; or</li> <li>(e) shall enter into a contract with the Employer in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Employer/ Engineer-in-Charge; or</li> <li>(f) shall obtain a Contract with the Employer as a result of ring bidding or other nonbonafide methods of competitive bidding;</li> <li>(g) In case of poor performance, the contract shall be terminated with a notice period of 15 days without any liability to HURL Barauni. IN the event of unsatisfactory performance, Hurl Barauni reserves right to cancel part or whole of the work order / contract /PO and make alternative arrangement at any time during of contract on risk &amp; cost of contractor and / or forfeit security deposit.</li> </ul> <p>The Employer may, without prejudice to any other right to remedy which shall have accrued or shall accrue thereafter to the Employer by written notice, cancel the Contract as a whole or only such items of work in default, from the Contract.</p>





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<b>45</b>	<b>Blacklisting</b>	If the contractor is terminated under clause 44 or made ineligible for tendering under clause 17 then HURL reserves the right to black list the bidder for 12 months from the date of notice.
<b>46</b>	<b>Contract Agreement</b>	On successful award of order or issue of Purchase order the bidder shall submit a non- judicial stamp paper of Rs. 1000/- with 03 bond dummy papers along with all other supporting documents as stipulated in the tender document within 30 days of receipt of Letter of Award (LOA) or Purchase order, failing which the tender is liable to be rejected.
	<b>Important Note</b>	<b>The Special Conditions of Contract (SCC) will supersede any other related conditions anywhere else in the Bidding Documents and will prevail for evaluation / finalization of the tender.</b>

### Annexure-1 to ITB

#### Checklist of documents to be submitted:

Sr. No	Documents
1	Techno Commercial Proposal Bid Form. (Enclosed as Annexure-1 to Forms and Procedures i.e., Section VI)
2	Power of Attorney as per requirement mentioned in NIT.
3	Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD) / MSE Certificate with applicable annexure form for exemption.
4	Signed, Stamped and Scanned copy of Certificates like Registration certificate, GST No, PAN No, PF, etc.
5	Signed, Stamped and Scanned copy of Format for Electronics Payment (Enclosed as Annexure-2 to Forms and Procedures i.e., Section VI)
6	Signed, Stamped and Scanned copy of Tender Acceptance Letter (Enclosed as Annexure-3 to Forms and Procedures i.e., Section VI)
7	Documents as required in accordance with Qualifying Requirements / Pre-Qualification Criteria (PQC) i.e., <u>Clause 6</u> of NIT
8	Signed, Stamped and Scanned copy of No deviation Certificate (Enclosed as Annexure-4 to Forms and Procedures i.e., Section VI)
9	Signed, Stamped and Scanned copy of Certificate from CEO/MD/ Legally Authorized Signatory, in the format as enclosed as Annexure-5 to Forms and Procedures i.e., Section VI) to Bidding Document shall be furnished certifying that the data and documents furnished by them in respect of Techno-Commercial Evaluation are true and correct including the contents thereof. However, if at any point of time the declarations given in bid are found to be incorrect, HURL shall have the full right to terminate the contract and take any action as per provisions of contract including forfeiture of EMD/Security Deposit.



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10	Acceptance to Fraud Prevention Policy of HURL, for which the bidder has to submit Signed, Stamped and Scanned copy of Form of Acceptance of Fraud Prevention Policy of HURL. (Enclosed as Annexure-6 to Forms and Procedures i.e., Section VI).
11	Certificate related to Restrictions on procurement from a Bidder of a country which shares a land border with India" i.e. (Enclosed as Annexure-7 to Forms and Procedures i.e., Section VI).
12	Work orders subject to tender for qualification as per Annex – 12 with clearly mentioning Purchase order details relevant to tender based on which PQC can be achieved. Not to be mentioned as "As Attached"/ "mentioned in Bid"/ etc.
13	Declaration of GST (annexure -15) Signed, Stamped and Scanned copy of Declaration of GST (Enclosed as Annexure-15 to Forms and Procedures i.e., Section VI).
14	Signed, Stamped and Scanned copy of Bid Security Declaration Form (Enclosed as Annexure-13 to Forms and Procedures i.e., Section VI).
15	Signed, Stamped and Scanned copy of GCC, SCC & Scope of Work (i.e. Section-V) of tender document.
16	Any Other Document asked for in the Bidding Document

**Note:** Failure to Upload Authentic and Correct Documents as mentioned at Sr. No, I to 16 above would lead to Rejection of Techno- Commercial Bid. Price Bids shall be opened only of those bidders who are qualified and whose techno-commercial bids are acceptable.



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## Annexure 2 to ITB

A	<b>Instructions for Online Bid Submission</b>	<p>The bidders are required to submit their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bidsonline on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>.</p> <p><b>1.0 REGISTRATION</b></p> <p><b>1.1</b> Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.</p> <p><b>1.2</b> As part of the enrollment process, the bidders will be required to choose a unique username and assign a password for their accounts.</p> <p><b>1.3</b> Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.</p> <p><b>1.4</b> Upon enrollment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g., Sify / nCode / eMudhra etc.), with their profile.</p> <p><b>1.5</b> Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.</p> <p><b>1.6</b> Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.</p> <p><b>2.0 SEARCHING FOR BIDDING DOCUMENTS</b></p> <p><b>2.1</b> There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.</p> <p><b>2.2</b> Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the</p>
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		<p>respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the Bidding Document.</p> <p><b>2.3</b> The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.</p> <p><b>3.0 <u>PREPARATION OF BIDS</u></b></p> <p><b>3.1</b> Bidder should take into account any corrigendum published on the Bidding Document before submitting their bids.</p> <p><b>3.2</b> Please go through the Bidding Document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.</p> <p><b>3.3</b> Bidder, in advance, should get ready the documents to be submitted as indicated in the Bidding Document / schedule. Generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.</p> <p><b>4.0 <u>SUBMISSION OF BIDS:</u></b></p> <p><b>4.1</b> Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. HURL shall NOT be responsible for any delay.</p> <p><b>4.2</b> The bidder has to digitally sign and upload the required bid documents one by one as indicated in the Bidding Document.</p> <p><b>4.3</b> Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.</p> <p><b>4.4</b> Bidder should prepare the EMD as per the instructions specified in the Bidding Document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the Bidding Documents.</p> <p><b>4.5</b> Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the Bidding Document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the blue colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and</p>
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		<p>submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.</p> <p><b>4.6</b> The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.</p> <p><b>4.7</b> All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology.</p> <p><b>4.8</b> Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded Bidding Documents become readable only after the tender opening by the authorized bid openers.</p> <p><b>4.9</b> The uploaded Bidding Documents become readable only after the tender opening by the authorized bid openers. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message &amp; a bid summary will be displayed with the bid no. and the date &amp; time of submission of the bid withall other relevant details.</p> <p><b>4.10</b>The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.</p> <p><b>4.11</b>The Bidder is allowed to re-submit the Bid and related Bid documents before the last date of Bid submission and time. The Bid can be re-submitted as many times as required by the Bidder, within the indicated timelines. The last version of the Bid submitted by the Bidder before the Bid submission date and time will be considered for Bid evaluation.</p> <p><b>4.12</b>The Bidder is permitted to withdraw his Bid before the last date of Bid submission and time through the CPP Portal. The bidder should provide the supporting reasons for bid withdrawal and attach the supporting letter to the Purchaser.</p> <p><b>4.13</b>During bid evaluation, EMPLOYER may, at its discretion, ask the Bidder for a clarification of its bid including documentary evidence pertaining to the Purchase Orders/Contracts executed declared in the bid for the purpose of meeting Qualifying Requirement specified in NIT/IFB. The request for clarification and the response shall be in writing, and no</p>
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		<p>change in the price or substance of the bid including substitution of Purchase Orders/Contracts executed in the bid by new/additional Purchase Orders/Contracts executed for conforming to Qualifying Requirement shall be sought, offered or permitted.</p> <p>For this purpose, only 1 chance, shall be given. If the techno-commercial acceptability of bidder is established upon verification of documents including clarifications submitted, the case shall be considered for further processing. If the bidder happens to be defaulter upon verification of the documents or has not uploaded the required document within the mentioned time frame his bid would be analyzed based on the uploaded documents and if found not in order as per requirement, would be outrightly rejected.</p>
B.	<b>Reverse Auction</b>	<p>Procedure in submission of bids by the bidders during Reverse/Forward auction online.</p> <ul style="list-style-type: none"> <li>➤ Bidders shall login using their login ID &amp; Password and then using DSC.</li> <li>➤ Click on My Auctions button given in left side of page, to view Action details for which Techno-Commercially qualified.</li> <li>➤ For participating in Live Auction, <ul style="list-style-type: none"> <li>a) Click on Live Auction Button.</li> <li>b) Click on View button to participate in interested Auction.</li> <li>c) There is List of qualified Lots in which Bidder can participate against selected Auction.</li> <li>d) Click on Hammer Icon to participate in the respective lot.</li> <li>e) On clicking Hammer Icon, system will show Start price, Decremental (or incremental) price and Current price against lot. Current Price is appearing as Blank in case no bidder has offered price.</li> <li>f) Enter your Price in 'My Auction Price' in multiples of decremental (incremental) value up to above (below) Max Seal % value, and then sign it digitally by clicking on Sign Icon and Click on submit button.</li> <li>g) System will show your Latest Value / Price Quoted and system will also show Least Amount/ Rate which any Bidder would have quoted.</li> </ul> </li> </ul> <p>1. Tender Cum Auction is a combination of Tender Followed by Reverse Auction. It is also called as eRA.</p> <p>Subsequently, Reverse Auction will be conducted amongst techno-commercially qualified / approved bidders after Opening of Financial/Price Bids' online.</p> <p>The Reverse Auction will be normally initiated after Opening of Price Bids. There will be no participation fees for Auction. Only such bidders - who have been found techno-commercially qualified as per requirements of the tender will be permitted to participate in the Reverse Auction.</p> <p>After opening of the price (financial) bids, System displays L1</p>



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		<p>price based on either over all basis or item wise/lot basis automatically. Using this system provided price, which would be auction start price procuring entity will create Reverse Auction and publish the same.</p> <p>The Techno-commercially qualified bidders will receive Auction information through SMS &amp; email. The participating bidders get an opportunity to revise their prices (reduce in case of Reverse Auction). It allows bidders multiple opportunities to offer a price.</p> <ol style="list-style-type: none"> <li>2. The lowest value quoted by the bidder will become the auction start price for auction and the participant bidders have to quote below the auction price.</li> <li>3. The Bidder would be allowed to bid lower than the opening price of auction in multiples of the decrement value mentioned in <b><u>para-5</u></b>. However, bidder can only bid lower than the Lowest Bid.</li> <li>4. The auction will be done on bid value (to be provided by bidder) which will be derived based upon cost as mentioned in para below. It is inclusive of any taxes, etc.</li> <li>5. The minimum decrement value will be Rs. 10,000.00 as mentioned in <b>clause VII</b> below. The reduction shall have to be made as per decrement value or in multiple thereof.</li> <li>6. Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction: <ol style="list-style-type: none"> <li>a) Current Bid Price in the Auction.</li> <li>b) Start Price.</li> <li>c) Decrement value.</li> </ol> <p>At no point of time will any bidder see the names of other bidders, or the prices of bidders other than the lowest bid.</p> </li> <li>7. In case of Reverse Auction, in order to displace a standing lowest bid and to become "L1", a bidder can offer a minimum bid decrement or in multiples of decremental value up to above Max Seal %.</li> </ol> <p><b>For example:</b>  Current price:- Rs. 4,90,000 Decrement value: - Rs. 10000  System Defined Maximum Seal %:- 50, in this case a bidder can quote minimum decrement amount as Rs 4,90,000-10,000= Rs. 4,80,000 and maximum decrement amount is 490000-245000-10000=235000=240000*.</p> <ol style="list-style-type: none"> <li>8. A bidder can continue to revise his bid till the auction ends. However, the Bidder cannot quote/Bid equal to the Leading / Lowest Bid. He must always quote lower than the Leading/Lowest Bid site.</li> <li>9. The evaluation criteria is based on Price alone in auction. The</li> </ol>
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		<p>Bidder who quotes the lowest evaluated Price is determined as the lowest bidder.</p> <p><b>10.</b> System protects bid and bidder information till auction gets over and displays current L1 price to the bidder.</p> <p><b>11.</b> Initial period of reverse auction will be two hours in the slot of 10 minutes. There will be auto extensions of time every time by ten minutes in case of any reduction recorded in the last ten minutes. The reverse auction will come to a close only when there is no further reduction recorded in the last ten minutes slot in any site i.e., after 1 hour 50 minutes.</p> <p><b>12.</b> The log details of the entire reverse auction process will be generated by the system once the process of reverse auction is completed.</p> <p><b>13.</b> If a bidder does not submit his bid in the Reverse Auction, the price quoted by him in the price bid shall be considered as the final price of that bidder.</p> <p><b>14.</b> Since, reverse auction is a sequel to e-tender, the process of finalizing the tender upon completion of reverse auction will be same as the tender process without reverse auction.</p> <p><b>15.</b> The bid history shall reflect only the bid value inclusive of taxes. The value will not be same for two bidders even if any bidder makes such an attempt in the bidding.</p> <p><b>16.</b> Only the chronologically last price bid submitted by the bidder till the end of the auction shall be considered as the valid price bid of that bidder. Any bid submitted prior to submission of his last bid will not be considered as the valid price bid.</p> <p><b>17.</b> Server time shall be the basis of Start time &amp; Closing time for bidding and shall be binding for all. This would be visible to all concerned.</p> <p><b>18.</b> All electronic bids submitted during the reverse auction process shall be legally binding on the bidder. The chronologically last bid submitted by the bidder till the end of the auction will be considered as the valid price bid offered by that bidder against that site and acceptance of the same by HURL will form a binding contract between HURL and the bidder for entering into a contract.</p> <p><b>19.</b> If the lowest price received during reverse auction is unreasonable or it is unacceptable on ground of being too high compared with estimated price, the HURL management reserves right to seek justification of the price from lowest bidder. If the price is not considered reasonable, HURL may not accept such bid and may go for another tender process.</p> <p><b>20.</b> In case of disruption of service at the service provider's end while the RAP is online, due to any technical snag or otherwise attributable to the system failure at the server end, the RAP process will start all over again. In such a situation, the last recorded lowest price of prematurely ended RAP, will be the</p>
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		<p>'Start Bid' price for the restarted RAP. The prices quoted in the prematurely ended RAP will be binding on all the bidders for consideration, if the restarted RAP does not trigger within the stipulated time.</p> <p>21. However, if Reverse Auction does not lead to any bid, HURL shall reserve the right to award the job based on the lowest prices quoted in online commercial bid.</p> <p>22. The successful bidder needs to submit the revised BOQ in line with price quoted by him in reverse auction. The ratio of percentage decrease in cost of each item of BOQ component shall be same as the overall percentage reduction in the bid value originally quoted by successful bidder and final L1 value quoted by successful bidder.</p> <p>23. The detailed Break-up of offered cost, provided by the successful bidder shall be considered and order, if placed, shall be with the same break-up of prices. The successful bidder(s) after reverse auction will be responsible to ensure that the rate as per the breakup of prices provided by him after the reverse auction and total value offered by him in the reverse auction are in same proportion. The successful bidder will not be allowed to increase the rate of any component while submitting the breakup. While giving the break up, the successful bidder will have to consider same rate of taxes as quoted while submitting the commercial bid. In case the successful bidder(s) fail(s) to submit the final BoQ within 3 days or the break up given by bidder does not match with total offered price, the HURL will be at liberty to place order by proportionately reducing the component rates on basis of the breakup of the e-auction bid submitted by the successful bidder along with the initial offer and the same will be binding on the successful bidder.</p>
		<p><b>Bidders must apprise themselves of the applicable guidelines for submission of and uploading of bids etc. on CPP website.</b></p>
<p>The GST part of the bill shall be paid only after confirmation of payment from the successful awarded bidder or after confirmation of the corresponding return filed by the contractor from the GST portal. The GST part of the bill shall be withheld till such confirmation.</p>		

# HINDUSTAN URVARAK & RASAYAN LIMITED

(A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL)

## BARAUNI UNIT

Barauni Urvarak Nagar, Begusarai

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115

[Registered Office SCOPE Minar, Core 4, 9TH Floor, Laxmi Nagar District Center, Delhi-110092]



## SECTION – III

### ***GENERAL CONDITIONS OF CONTRACTS (GCC)***



# HINDUSTAN URVARAK & RASAYAN LIMITED, BARAUNI

( A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL )

**The Special Conditions of Contracts (SCC) will supersede any related condition anywhere in the Bidding Documents and will prevail for evaluation / finalization of the tender.**

1	<b>Definitions &amp; Terminology</b>	<p>Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:</p> <p><b>“Employer” / “Owner”</b> means the Hindustan Urvarak &amp; Rasayan Limited (HURL), having its registered office Core-4, 9th Floor, Scope Minar, Laxmi Nagar District Centre, Delhi-110092 and its Project office at Barauni , Urvarak Nagar, Begusarai, Bihar – 851115 shall include their legal representatives, successors and permitted assigns.</p> <p><b>“Contract”</b> means the Contract Agreement entered into between the Owner and the Contractor, together with the Contract Documents referred to therein; they shall constitute the Contract, and the term “the Contract” shall in all such documents be construed accordingly.</p> <p><b>“Contract Documents”</b> mean the following documents that constitute the Contract between the Employer and the Contractor:</p> <ul style="list-style-type: none"> <li>(i) The Contract Agreement along with its appendices</li> <li>(ii) Letter of Award/Service Purchase Order along with its appendices including agreed variations annexed.</li> <li>(iii) Amendment to Tender/Bidding Documents</li> <li>(iv) Special Conditions of Contract</li> <li>(v) Technical Specifications</li> <li>(vi) General Conditions of Contract</li> <li>(vii) The Bid and Bill of Quantities submitted by the Contractor</li> <li>(viii) Instructions to Bidders</li> </ul> <p><b>“GCC”</b> means the General Conditions of Contract hereof.</p> <p><b>“SCC”</b> means the Special Conditions of Contract.</p> <p><b>“Day”</b> means calendar day of the Gregorian Calendar.</p> <p><b>“Week”</b> means a continuous period of seven (7) calendar days.</p> <p><b>“Month”</b> means calendar month of the Gregorian Calendar.</p> <p><b>“Completion”</b> means the fulfilment of the Services by the Contractor in accordance with the terms and conditions set forth in the Contract.</p> <p><b>“Contractor”</b> shall mean the successful Sole Bidder or Consortium whose bid has been accepted by the OWNER and who has been selected by the OWNER for the award of Works and shall include his heirs, legal representatives, successors and permitted assigns.</p> <p><b>“Contract Price”</b> means the price to be paid for the performance of the Services, exclusive of GST.</p>
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		<b>Effective Date</b> means the date on which this Contract comes into force pursuant to GCC Clause 15.
		<b>Foreign Currency</b> means any currency other than the currency of the Owner's country.
		<b>"Local Currency"</b> means the currency of the Government of India.
		<b>"Government"</b> means the Government of the Owner's country i.e. INDIA.
		<b>Party</b> means the Owner or the Contractor, as the case may be, and <b>"Parties"</b> means both of them. Third party means any party other than Owner and Contractor.
		<b>Personnel</b> means professionals and support staff provided by the Contractor or by any Sub-Contractor and assigned to perform the Services or any part thereof;
		<b>"Funds"</b> means any funds allocated to the Owner under Company budget, or loan, grants and credits placed at the disposal of the Owner.
		<b>Services</b> means the work to be performed by the Contractor pursuant to this Contract
		<b>Sub-Contractor</b> means any person or entity to whom/which part of the Services is sub-consulted.
		<b>"Engineer"</b> or <b>"Engineer-in-Charge"</b> or <b>"E.I.C."</b> shall mean the officer appointed in writing by the Owner to act as <b>"Coordinator"</b> from time to time on behalf of Owner in all matters pertaining to this Contract. <b>"Engineer-in-Charge"</b> shall be authorized by the Client for supervision, inspection, scrutiny and approval of some or all of the services rendered by the Contractor under the Contract.
		<b>"Bill Of Quantity"</b> shall mean the priced and completed Bill of Quantity (BOQ) forming the part of the bid or such Bill of Quantity (BOQ) forming the part of the Contract, as the case may be, with amendments, if any, thereto.
		Throughout these Bidding Documents, the term <b>"Bid"</b> and <b>"Tender"</b> and their derivatives (Bidder/ Tenderer, Bidding / Tendering, Bidding Document/Tender Document, etc.); Bill of Quantity / Schedule of Quantity / Schedule of Quantities/ Bill of Quantities; Owner / Employer / HURL; Bid Security / Earnest Money Deposit; Security Deposit / Performance Security/ Performance Guarantee; Engineer-in-Charge / Engineer, appearing anywhere in the Bidding Documents shall have the same meaning and are synonymous to each other.
2	<b>Order of the precedence of the</b>	Subject to order of precedence listed below, all documents forming part of the Contract (and all parts thereof) are intended to be correlative,



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	<b>Documents</b>	<p>complementary and mutually explanatory. The Contract shall be read as a whole.</p> <p>The order of precedence of documents shall be as under:</p> <ol style="list-style-type: none"> <li>Contract Agreement and the Appendices</li> <li>Purchase Order/Service Order along with its annexures.</li> <li>Amendment to Bidding Documents</li> <li>Special Conditions of Contract</li> <li>Technical Specifications including Scope of Work</li> <li>General Purchase Conditions</li> <li>The Bid and BOQ submitted by the Supplier</li> <li>Instructions to bidders</li> </ol> <p>An amendment issued after issue of Contract shall take precedent over the formal Contract and all other contract documents.</p> <p>In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Documents are listed above.</p> <p>Any error in description, quantity or rate in Bill of Quantity (BOQ) or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the Works comprised therein according to drawings and specifications or from any of his obligations under the Contract.</p>
3	<b>Singular and Plural</b>	The singular shall include the plural and the plural the singular, except where the context otherwise requires.
4	<b>Headings</b>	<p>The headings and marginal notes in the General Conditions of Contract are included for ease of reference, and shall neither constitute a part of the Contract nor affect its interpretation.</p> <p>Heading and marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the Contract.</p>
5	<b>Communications and Notices</b>	<p>Communications between Parties (notice, request or consent required or permitted to be given or made by one party to the other) pursuant to the Contract shall be in writing to the Authorized Representatives named in the Contract.</p> <p>A notice shall be effective when delivered or on the notice's effective date, whichever is later.</p> <p>A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.</p>
6	<b>Governing Laws</b>	The Contract shall be governed by and interpreted in accordance with laws in force in India.



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		The Courts of Delhi shall have exclusive jurisdiction in all matters arising under the Contract, unless otherwise stated in the SCC.
7	<b>Governing Language</b>	<p>The Contract shall be written in English. All correspondences and documents relating to the Contract shall be written in English. Supporting documents and printed literature that are part of the Contract may be in another language, as long as such literature is accompanied by a translation of its pertinent passages in English language in which case, for purposes of interpretation, the translation shall govern.</p> <p>The English Translation of the documents shall be carried out by professional translators and the translator shall certify that he is proficient in both languages in order to translate the document and that the translation is complete and accurate. Further, translation shall be authenticated by the Indian Consulate located in the Country where the documents have been issued or the Embassy of that Country in India.</p> <p>The Contractor shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.</p>
8	<b>Assignment</b>	Neither the Owner nor the Contractor shall assign, in whole or in part, their obligations under this Contract; except with prior written approval of the Owner.
9	<b>Authorized Representatives</b>	<p><b>Engineer-in-Charge</b></p> <p>If the Engineer-in-Charge is not named in the Contract, then within fourteen (14) days of the Effective Date, the Owner shall appoint and notify the Contractor in writing of the name of the Engineer-in-Charge. The Owner may from time to time appoint some other person as the Engineer-in-Charge in place of the person previously so appointed, and shall give a notice of the name of such other person to the Contractor without delay. The Owner shall take reasonable care to see that no such appointment is made at such a time or in such a manner as to impede the progress of work. The Engineer-in-Charge shall represent and act for the Owner at all times during the currency of the Contract. All notices, instructions, orders, certificates, approvals and all other communications under the Contract shall be given by the Engineer-in-Charge, except as herein otherwise provided. All notices, instructions, information and other communications given by the Contractor to the Owner under the Contract shall be given to the Engineer-in-Charge, except as herein otherwise provided.</p>
10	<b>Contractor's Authorised Representative</b>	<p><b>Contractor's Representative</b></p> <p>If the Contractor's Representative is not named in the Contract, then within fourteen (14) days of the Effective Date, the Contractor shall appoint the Contractor's Representative and shall request the Owner in writing to approve the person so appointed. If the Owner makes no objection to the appointment within fourteen (14) days, the Contractor's Representative shall be deemed to have been approved. If</p>





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		<p>the Owner objects to the appointment within fourteen (14) days giving the reason therefore, then the Contractor shall appoint a replacement within fourteen (14) days of such objection, and the foregoing provisions of this GCC Clause shall apply thereto.</p> <p>The Contractor's Representative shall represent and act for the Contractor at all times during the currency of the Contract and shall give to the Engineer-in-Charge all the Contractor's notices, instructions, information and all other communications under the Contract.</p> <p>All notices, instructions, information and all other communications given by the Owner or the Engineer-in-Charge to the Contractor under the Contract shall be given to the Contractor's Representative or, in its absence, its deputy, except as herein otherwise provided.</p> <p>The Contractor shall not revoke the appointment of the Contractor's Representative without the Owner's prior written consent, which shall not be unreasonably withheld. If the Owner consents thereto, the Contractor shall appoint some other person as the Contractor's Representative, pursuant to the procedure set out in above GCC Clause.</p> <p>The Contractor's Representative may, subject to the approval of the Owner (which shall not be unreasonably withheld), at any time delegate to any person any of the powers, functions and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Contractor's Representative, and shall specify the powers, functions and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until a copy thereof has been delivered to the Owner and the Engineer-in-Charge.</p> <p>Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with the above GCC Clause shall be deemed to be an act or exercise by the Contractor's Representative.</p>
11	<b>Relation between the Parties</b>	Nothing contained herein shall be construed as establishing a relation of master and servant or of principal and agent as between the Owner and the Contractor. The Contractor, subject to this Contract, has complete charge of Personnel and Sub-Contractors, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.
12	<b>Location</b>	The Services shall be performed at such locations as are specified in the Contract and, where the location of a Special task is not so specified, at such locations as the Owner may approve.
13	<b>Taxes &amp; Duties</b>	Contractor, shall bear all tax liabilities, duties, Govt. levies etc. on account of payments made under this Contract. It shall be the responsibility of the Contractor to submit to the concerned Indian authorities the returns and all other concerned documents required for this purpose and to comply in all respects with the requirements of the



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		<p>laws in this regard, in time.</p> <p>It shall be incumbent upon the Contractor to obtain a registration certificate as a dealer under GST Law, and other law(s) relating to levy of tax, duty, cess etc. and necessary evidence to this effect shall be furnished by the Contractor to the Owner.</p> <p>The Contract Price (of both domestic and foreign Contractor) shall also be exclusive of GST applicable on services as per the rates prevailing as on seven (7) days prior to the date of Techno-Commercial bid opening. In case the Contractor is from outside India, who does not have any fixed establishment or permanent address in India, the GST shall be paid to the concerned Tax Authorities in India by the Owner and the same shall be recovered/ deducted from the Contractor.</p> <p>In case of any variation in the rate of GST during the period of Contract, an equitable amount shall be paid/ recovered from the Contractor to fully take into account any such change.</p> <p>If a new tax, duty or levy is imposed or any rates of tax are increased or decreased under statute or law in India after the date seven (7) days prior to date of Techno-Commercial bid opening and the Contractor becomes liable there under to pay and actually pays the said new tax, duty or levy for bonafide use on the work contracted, the same shall be reimbursed/recovered to the Contractor.</p> <p>As regards Income Tax, Surcharge on Income Tax and other Corporate Taxes, including Cess wherever applicable, the Contractor shall be responsible for such payments to the concerned authorities.</p> <p>The Owner shall be entitled to make necessary tax deductions at source as per the prevalent laws. The Contractor shall be required to submit the PAN details before the submission of the first bill/invoice under the Contract.</p> <p>The GST part of the bill shall be paid only after confirmation of payment from the successful awarded bidder or after confirmation of the corresponding return filed by the contractor from the GST portal. The GST part of the bill shall be withheld till such confirmation.</p> <p>In case the Contractor is from outside India, it shall be required to either furnish (i) the certificate from Indian Tax Authority or (ii) Ruling from "the Authority for Advance Ruling (AAR)" determining the applicable rate of Income Tax in India before release of first payment.</p> <p>The Contractor shall himself be informed of all the applicable laws, notifications, rules, circulars and other communications of the State or Central or other authorities with regard to levy of any tax, duty, cess, levy or fee etc, which in any manner may impinge upon him in performance of any obligations/responsibilities under or arising out of the Contract.</p> <p>Further in case of foreign Contractor, certain benefits of Income Tax may be available to him in his country under Double Taxation Avoidance Agreement (DTAA). While quoting for the assignment, the</p>
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		foreign Contractors are required to consider such benefits in their proposal.
14	<b>Effectiveness of Contract</b>	The Contract shall come into force and effect on the date, called the “Effective Date”, of the Owner’s notice to the Contractor instructing the Contractor to commence carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, as specified in the SCC have been met or as mentioned elsewhere in the tender document.
15	<b>Effective Date</b>	The date the Contract comes into effect shall be as specified in the SCC.
16	<b>Commencement of Services</b>	The Contractor shall commence carrying out the Services not later than the number of days after the Effective Date as specified in the SCC.
17	<b>Modifications or Changes or Amendment</b>	No Modifications or changes or amendment or other variation of the Contract (Purchase Order / Service Purchase) shall be effective unless it is in writing, is dated, expressly refers to the Purchase Order / Service Order, and is signed by a duly authorized representative of Employer and accepted by the Contractor.
18	<b>Contract Price</b>	The Contract price, other than GST, shall remain FIRM throughout the contract period and will be NOT be subject to adjustment for price escalation during the performance of the Contract until unless specified otherwise in the SCC.
19	<b>Severability</b>	If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.
20	<b>Standard of Performance</b>	The Contractor shall perform the Services and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Contractor shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Owner, and shall at all times support and safeguard the Owner’s legitimate interests in any dealings with Sub Contractors or Third Parties.
21	<b>Conflict of Interests</b>	The Contractor shall hold the Owner’s interest’s paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.
22	<b>Confidentiality</b>	The Owner and the Contractor shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following termination of the Contract. Notwithstanding the above, the



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		Contractor may furnish to its Subcontractor(s) such documents, data and other information it receives from the Owner to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this clause of GCC.
23	<b>Limitation of Liability</b>	<p>HURL shall in no way be responsible for any liabilities arising out of the Contractor's Contractual obligations with the Contractor's personnel, experts, engineers, sub-Contractors, licensors, collaborators, vendors, or subsidiaries. Similarly, the Contractor shall in no way be responsible for any liabilities arising out of HURL's personnel, sub-Contractors, licensors, collaborators, vendors or subsidiaries.</p> <p>The Contractor and HURL both agree that each shall assume full risk of damages or injury to its own properties, employees and representatives caused by any act or omission to act by their respective employees or representatives, during the performance of this Contract.</p> <p>Except in cases of criminal negligence or willful misconduct,</p> <p>(a) Neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and</p> <p>(b) The aggregate liability of the either party to the other party, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.</p> <p>Notwithstanding anything contained hereinabove, the aggregate liability of the Employer to the Contractor shall not exceed the Total Contract Price, less payments already released to the Contractor, if any.</p>
24	<b>Liability of the Contractor</b>	<p>The Contractor, shall be, liable to and required to indemnify, the Owner as stated under for due performance of the Contract.</p> <p>The Contractor shall indemnify the Owner from and against any and all claims, liabilities, obligations, losses, damages, penalties, actions, judgment, suits, proceedings, demands, costs, expenses and disbursements of whatsoever nature that may be imposed on, incurred by or asserted against the Owner during or in connection with the Services by reason of:</p> <p>(a) infringement or alleged infringement by the Contractor of any patent or other protected right; or</p> <p>(b) plagiarism or alleged plagiarism by the Contractor.</p> <p>The Contractor shall ensure that all goods and services (including without limitation all computer hardware, software and systems) procured by the</p>



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		Contractor out of funds provided or reimbursed by the Owner or used by the Contractor in the carrying out of the Services do not violate or infringe any industrial property or intellectual property right or claim of any third party.
25	<b>Insurance to be taken out by the Contractor</b>	<p>The Contractor</p> <p>(a) shall take out and maintain, and shall cause any Sub-Contractors to take out and maintain, at their (or the Sub-Contractors', as the case may be) own cost, but on terms and conditions approved by the Owner, during the performance of the Contract, the insurance against the risks, and for the coverage as specified in the SCC; and</p> <p>(b) at the Owner's request, shall provide evidence to the Owner showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.</p>
26	<b>Contractor's Actions Requiring Owner's Prior Approval</b>	<p>The Contractor shall obtain the Owner's prior approval in writing before taking any of the following actions:</p> <p>(a) any subcontract relating to the Services to an extent and, with such specialists and entities as may be approved as</p> <p>(b) any other action that may be specified in the SCC.</p> <p>Notwithstanding any approval as above, the Contractor shall remain fully liable for the performance of Services by the Sub-Contractor and its Personnel and retain full responsibility for the Services.</p>
27	<b>Assistance and Exemptions</b>	<p>The Owner shall use its best efforts to ensure the following:</p> <p>(a) To ensure the accuracy of all information and/or data to be supplied by the Owner to the Contractor necessary for performance of the Contract, except when otherwise expressly stated in the Contract.</p> <p>(b) issue to officials, agents and representatives of the Owner all such instructions as may be necessary or appropriate for the prompt and effective implementation of the Services;</p> <p>(c) provide to the Contractor, Sub-Contractors and Personnel any such other assistance as may be specified in the SCC.</p>
28	<b>Payment Terms</b>	<p><b>General</b></p> <p>In consideration of the Services performed by the Contractor under this Contract, the Owner shall make to the Contractor such payments and in such manner as stated below:</p> <p>Payments will be made in the currency or currencies in which the Contract Price has been stated in the Contractor's bid i.e., INR.</p> <p>No payment made by the Owner herein shall be deemed to constitute acceptance of the Services nor relieve the Contractor of any obligations.</p> <p><b>Modes of Billing and Payment</b></p> <p>All the invoices of payment shall be supported by necessary Documents and submitted in quadruplicate for the certification of Engineer-in-Charge for which he will require a maximum time of fifteen (15) days before the same are submitted for processing the payment of amount admitted.</p> <p>The Owner shall pay to the Contractor all the admissible payments within thirty (30) days of certification of the Engineer-in-Charge of the amount payable for the services.</p> <p>Contractor shall furnish the details of Bank Account in the prescribed format along with Bid in order to facilitate the Owner to release</p>



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		<p>Payments electronically through Electronic Fund Transfer system wherever technically feasible. The Contractor shall hold the Owner harmless &amp; Owner shall not be liable for any direct, indirect or consequential loss or damage sustained by the Contractor on account of any error in the information or change in Bank details provided to the Owner in the prescribed form without intimation to Owner duly acknowledged.</p> <p><b>Vendor Registration:</b></p> <p>In case of awarding a contract to an unregistered vendor, the vendor registration in HURL vendor data base shall be done based on the GST, MSME, Annexure -2 for bank details etc. submitted along with the bid documents. Once the contractor is registered no changes shall be made in the vendor details till a change request on contractor's letter head is received from the contractor in sign and stamp copy (as per Power of Attorney). The change request should contain the details of the data to be changed, present data, new data and reason for the change along with the supporting documents. For example, in case of change in bank details a change request form on contractor's letter head should contain old bank Account No, New bank account number and reason for change of account number addressing to HURL finance department, along with the cancelled cheque as a supporting document. The Bill payments shall be processed as per the bank details prescribed during the registration or further change request forms if applicable.</p> <p>In case of awarding a contract to HURL registered vendor, the payment shall be processed as per the details shared during initial registration or first awarding or latest bank detail change requests. The same shall apply for other details like MSME or other statutory requirements. The contractor while bidding for the tender should ensure the bid details should match as per the initial vendor registration data or the latest change request.</p> <p>HURL shall not be held responsible for any payment issues if the bank details shared while registration (or the change request if applicable) mismatches with the invoice bank details.</p>
29	<b>Early Warning</b>	<p>If at any time during performance of the Contract, the Contractor or its Sub-Contractors should encounter events, circumstances conditions that may adversely affect the quality of the work, increase the cost of Services or delay the execution of the Services, the Contractor shall promptly notify the Owner in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Contractor's notice, the Owner shall evaluate the situation, and the Contractor shall cooperate with the Owner in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced.</p>
30	<b>Extension of the Intended Completion Date</b>	<p>In the event the Contractor is unable to complete the assignment by the Intended Completion Date it may request the Owner to extend the Intended Completion Date giving reasons. The Owner may extend the Intended Completion Date if the reasons given by the Contractor, including prior review where necessary, are found acceptable. The Owner shall, however, decide by how much to extend the Intended Completion Date.</p>





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31	<b>Good Faith</b>	The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.
32	<b>Liquidated Damage (LD) for Delay</b>	<p>If the Contractor fails to complete the Work on or before the scheduled or extended date of completion, he shall, without prejudice to any other right or remedy of the Employer, arising out of the Contract on account of such delay, be liable for payment of liquidated damages @ ½ percent per week, not as penalty, on the Contract Value of the Work for every week that the progress remains below the required progress or that the Work remains incomplete subject to a maximum of 5% of the Contract Value.</p> <p>In case of amendment in the contract value, the limiting value of the Liquidated damages shall be 5% of the amended Contract Value.</p> <p>The amount of Compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Owner.</p>
33	<b>Change in laws and regulations</b>	If, after the date seven (7) days prior to the last date of Bid submission, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. However, these adjustments would be restricted to items in respect of both direct transactions between the Employer and Supplier.
34	<b>Performance Security</b>	<p>Within thirty (30) days of the receipt of Purchase Order/Service Order from the Employer, the contractor shall furnish the Contract Performance Guarantee (CPG), if applicable, for the due performance of the Contract for ten percent (10%) of the Contract Price with an initial validity up to ninety (90) days beyond the completion date for work plus defect liability period (if any), for due performance of the Contract(s)/Order(s) in any form acceptable to the Employer as mentioned below.</p> <p>CPG may be submitted in any of the following forms:</p> <ol style="list-style-type: none"> <li>crossed Demand Draft / Bankers cheque drawn in favour of HURL Payable at New Delhi.</li> <li>An irrevocable Bank Guarantee as per the HURL standard format from any Nationalized bank / Scheduled Bank as acceptable to HURL as per list enclosed.</li> </ol> <p>Failure of the supplier to submit the above-mentioned Contract Performance Guarantee shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.</p> <p>No interest shall be payable by the Employer to the Contractor against the Security Deposit furnished.</p> <p>Performance Security shall be returned after Certification of completion of work by EIC. However, the contractor will have to apply in writing, for refund of the same.</p>





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		<p><b><u>IMPORTANT:</u></b></p> <p>In case of PBG payment through RTGS/NEFT, bidder must mention “ PXXX-Bidder name” in transaction description while making the payment. “XXX” to be replaced with the last three digits of the tender reference number.</p> <p>(Example: Bidder Name: Pqrst Pvt. Ltd. , Tender No.: HURL/BR/CC/22-23/432 then the payment description to be mentioned as “P432-PqrstPvtLtd”)</p>
35	<b>Force Majeure</b>	<p>Neither CONTRACTOR nor OWNER shall be considered in default in the performance of their obligations under CONTRACT, as long as such performance is prevented or delayed for reasons such as, including but not limited to, whether similar of dissimilar, acts of God, earthquake, tidal wave, tsunami, hurricane, storm, typhoon or cyclone (except monsoon), floods, lightening, land slide, fire or explosions, plague or epidemic, strikes of a whole National category of workers and concerted act of workmen or other industrial disturbances (lasting more than 7 consecutive calendar DAYS), lockouts (lasting more than 7 consecutive calendar DAYS), sabotage, blockade, war, riots, invasion, act of foreign enemies, hostilities (whether war be declared or not), civil war, rebellion, revolution, terrorist acts, insurrection or military or usurped power of confiscation or trade embargoes or destruction or requisition by order of any Government or any Public Authority or for reasons or cause beyond the reasonable control of the affected party provided notice of any such cause is given forthwith and in any event not later than one week (7) DAYS of the happening of the event by the party claiming the benefit of this Clause to the other specifying the matter constituting FORCE MAJEURE explaining to what extent contractual obligations will thereby be prevented or delayed and the further period for which it is estimated that such prevention or delay will continue. CONTRACTOR shall provide justificatory documents countersigned by the local Chamber of Commerce. Notwithstanding the forgoing, FORCE MAJEURE shall not include (a) weather conditions reasonably to be expected for the climate in the geographic area of the SITE including but not limited to the monsoon season, (b) the occurrence of any manpower or material shortages unless such a shortage is itself caused by an event of force majeure, or (c) any delay, default or failure (direct or indirect) in obtaining materials, or in any SUB-CONTRACTOR/VENDOR or worker performing any WORK or any other delay, default or failure (financial or otherwise) attributable to SUB-CONTRACTOR/Vendor/worker, unless such delay, default or failure results from any act, event or condition which would, with respect to such SUBCONTRACTOR/ VENDOR/ worker, constitute an event of force majeure.</p> <p>If the CONTRACTOR suffers delay in the due execution of the contractual obligations due to delays caused by force majeure as defined above, the agreed time of completion of job covered by this CONTRACT or the obligation of the CONTRACTOR shall be extended by a period of time on account of force majeure conditions, provided that on the occurrence of any such contingency, the CONTRACTOR shall within</p>



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		<p>30 days reports to the OWNER in writing, the cause of delay and likely duration of cause of delay with requisite documentary evidence.</p> <p>Should one or both the parties be prevented from fulfilling the contractual obligations by a state of FORCE MAJEURE lasting continuously for a period of 6 weeks, the two parties shall consult each other regarding the future implementation of the CONTRACT. The mere shortage of labour, materials or utilities shall not constitute FORCE MAJEURE unless caused by circumstances which are themselves FORCE MAJEURE.</p> <p>CONTRACTOR and OWNER shall endeavour to prevent, overcome or remove the causes of FORCE MAJEURE.</p> <p>No ground for exemption can be invoked if CONTRACTOR has failed to give timely notice by registered letter and subsequently supported it by documentary evidence.</p> <p>Delay or non-performance by a party hereto caused by the occurrence of any event of FORCE MAJEURE shall not:</p> <p style="padding-left: 40px;">(a) Constitute a default or breach of the CONTRACT,</p> <p style="padding-left: 80px;">Or</p> <p style="padding-left: 40px;">(b) Give rise to any claim for damages or additional cost or expense occasioned thereby, if such delay or non-performance is caused by the occurrence of any event of FORCE MAJEURE. FORCE MAJEURE conditions are not payable under any circumstances.</p> <p>Force Majeure is no one's fault, therefore each party should bear its own cost and a provision to terminate the CONTRACT in case of Force Majeure extending beyond six (06) month is provided. Should OWNER wish the CONTRACTOR to continue further, both parties may sit together and mutually agree on the future course failing which Parties will have the right to terminate. Such termination shall not be considered as Termination for Owner's Convenience. However, outstanding invoices, payment for supplies made and payment to the work already performed will be paid by OWNER on such termination and shall be detailed at the time of CONTRACT finalisation. CONTRACTOR shall have the right to take action to mitigate the impact of the prolonged Force Majeure event in mutual consent with Owner. FORCE MAJEURE shall not apply to any obligation of the OWNER to make payments to the CONTRACTOR under the contract.</p>
36	<b>No Breach of Contract</b>	<p>The failure of a Party to fulfil any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.</p>
37	<b>Measures to be Taken on Force Majeure</b>	<p>A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.</p> <p>A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) days following the occurrence of such event, providing evidence of</p>



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		<p>the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.</p> <p>Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.</p> <p>During the period of their inability to perform the Services as a result of an event of Force Majeure, the Contractor, upon instructions by the Owner, shall either:</p> <p>(a) demobilize, in which case the Contractor shall be reimbursed for additional costs they reasonably and necessarily incurred, and, if required by the Owner, in reactivating the Services; or</p> <p>(b) continue with the Services to the extent possible, in which case the Contractor shall continue to be paid under the terms of this Contract and be reimbursed for additional costs reasonably and necessarily incurred.</p>
38	<b>Suspension</b>	<p>The Contractor shall, on receipt of the order in writing of the Engineer-in-Charge, suspend the progress of the Works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary for any of the following reasons:</p> <p>(i) On account of any default on part of the Contractor; or</p> <p>(ii) for proper execution of the Works or part thereof for reasons other than the default on the part of the Contractor; or</p> <p>(iii) for safety of the Works or part thereof, for reasons other than those attributable to the Contractor.</p> <p>The Contractor shall, during such suspension, properly protect and secure the Works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.</p> <p>The time for completion of the WORKS will be extended for a period equal to the duration of the suspension. The Contractor shall not be eligible for any other compensation whatsoever for such suspension, except as otherwise provided herein under.</p> <p>If such suspension of WORK by OWNER delays or is likely to delay the progress of WORK or the carrying out of WORK under CONTRACT resulting in additional expenses or increased liability to CONTRACTOR, the OWNER shall pay to the CONTRACTOR all reasonable expenses, mutually agreed between OWNER and CONTRACTOR, arising from suspension of the work by an order in writing of the OWNER provided that such suspensions of work is more than a cumulative period of ninety (90) days and provided that such suspension is not due to some fault on the part of the CONTRACTOR or a SUBCONTRACTOR.</p>
39	<b>Termination for Default</b>	<p>The Owner or the Contractor, without prejudice to any other remedy for breach of Contract, by notice of default sent to the other party, may terminate the Contract in whole or in part if the other party causes a fundamental breach of contract. In such an occurrence one party shall give not less than thirty (30) days' written notice of termination to the other party.</p> <p>Fundamental breaches of the Contract shall include but shall not be</p>



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		<p>limited to, the following:</p> <ul style="list-style-type: none"> <li>(a) If the Contractor fails to remedy a failure in the performance of their obligations hereunder, within thirty <b>(30)</b> days of receipt of such notice of suspension or within such further period as the Owner may have subsequently approved in writing;</li> <li>(b) If the Contractor submits to the Owner a statement which has a material effect on the rights, obligations or interests of the Owner and which the Contractor knows to be false;</li> <li>(c) if the Contractor, in the judgement of the Owner has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.</li> </ul> <p>For the purpose of this Sub-Clause:  "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.  "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Owner and includes collusive practice among Contractors (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Owner of the benefits of free and open competition.</p>
40	<b>Termination for Insolvency</b>	<p>The Owner and the Contractor may at any time terminate the Contract by giving notice to the other party if:</p> <ul style="list-style-type: none"> <li>(a) the Owner becomes bankrupt or otherwise insolvent;</li> <li>(b) the Contractor becomes (or, if the Contractor consist of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary; or</li> <li>(c) in such event, termination will be without compensation to any party, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the other party.</li> </ul>
41	<b>Termination for Convenience</b>	<p>The Owner, by notice sent to the Contractor, may in its sole discretion and for any reason whatsoever, terminates the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Owner's convenience, the extent to which performance of the Contractor under the Contract is terminated, and the date upon which such termination becomes effective.</p> <p>In event of termination of Order/Contract, the Employer shall pay to the Supplier/Contractor the Contract Price, properly attributable to the works/supplies executed by the Supplier/Contractor as on the date of termination. However, any sums due to the Employer from the Contractor accruing prior to the date of termination shall be deducted from the amount to be paid to the Supplier under this Order/Contract.</p>
42	<b>Termination because of Force Majeure</b>	<p>The Owner and the Contractor may at any time terminate the Contract by giving notice to the other party if, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty <b>(60)</b> days.</p>



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43	<b>Cessation of Services</b>	Upon termination of the Contract by notice of either Party to the other pursuant to GCC Clauses 39 to 42, the Contractor shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum.
44	<b>Payment upon Termination</b>	Upon termination of this Contract pursuant to GCC Clauses to 39 to 42, the Owner shall make the payments to the Contractor for Services satisfactorily performed prior to the effective date of termination.
45	<b>Disputes about Events of Termination</b>	<p>If either Party disputes whether an event specified in GCC Clause 39, 40 or 41 has occurred, such Party may, within forty-five (45) days after receipt of notice of termination from the other Party, refer the matter to arbitration pursuant to GCC Clause 46, and this Contract shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.</p> <p>In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to GCC Clause 46.</p>
46	<b>Settlement of Disputes</b>	<p><b>of Adjudicator</b></p> <p>Managing Director (MD) of HURL shall be the Appointing Authority for Adjudicator. Adjudicator under the Contract shall be retired judge of Supreme Court/High Court of India.</p> <p>If any dispute of any kind whatsoever shall arise between the Owner and the Contractor in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the services—whether during the progress of the work or after their completion and whether before or after the termination, abandonment or breach of the Contract—the parties shall seek to resolve any such dispute or difference by mutual consultation. If the parties fail to resolve such a dispute or difference by mutual consultation, then the dispute shall be referred in writing by either party to the Adjudicator, with a copy to the other party.</p> <p>The Adjudicator shall give its decision in writing to both parties within twenty-eight (28) days of a dispute being referred to it. If the Adjudicator has done so, and no notice of intention to commence arbitration has been given by either the Owner or the Contractor within fifty-six (56) days of such reference, the decision shall become final and binding upon the Owner and the Contractor. Any decision that has become final and binding shall be implemented by the parties forthwith.</p> <p>Should the Adjudicator resign or die, or should the Owner and the Contractor agree that the Adjudicator is not fulfilling its functions in accordance with the provisions of the Contract, another Adjudicator shall be jointly appointed by the Owner and the Contractor. Failing agreement between the two within twenty-eight (28) days, the new Adjudicator shall be appointed at the request of either party by the Appointing Authority. Expenses incurred in the process of adjudication including the fees required to be paid to the adjudicator, if any, shall be shared equally between the Owner and the Contractor.</p>



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		<p><b>Arbitration</b></p> <p>If either the Owner or the Contractor is dissatisfied with the Adjudicator's decision, or if the Adjudicator fails to give a decision within twenty-eight (28) days of a dispute being referred to it, then either the Owner or the Contractor may, within fifty-six (56) days of such reference, give notice to the other party, with a copy for information to the Adjudicator, of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.</p> <p>Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with above clause, shall be finally settled by arbitration. Arbitration may be commenced prior to or after completion of the Services.</p> <p>Any dispute submitted by a party to arbitration shall be heard by an arbitration panel composed of three arbitrators, in accordance with the provisions set forth below.</p> <p>The Owner and the Contractor shall each appoint one arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration panel. If the two arbitrators do not succeed in appointing a third arbitrator within twenty-eight (28) days after the latter of the two arbitrators has been appointed, the third arbitrator shall, at the request of either party, be appointed by the Appointing Authority as given below:</p> <ol style="list-style-type: none"> <li>a) President, Institution of Engineers in case of an Indian Contractor.</li> <li>b) President, International Chambers of Commerce, Paris in case of a Foreign Contractor.</li> </ol> <p>If one party fails to appoint its arbitrator within forty-two (42) days after the other party has named its arbitrator, the party which has named an arbitrator may request the Appointing Authority to appoint the second arbitrator.</p> <p>If for any reason an arbitrator is unable to perform its function, the mandate of the Arbitrator shall terminate in accordance with the provisions of applicable laws as mentioned under the Clause related to Governing Law and a substitute shall be appointed in the same manner as the original arbitrator.</p> <p>Arbitration proceedings shall be conducted</p> <ol style="list-style-type: none"> <li>(i) in accordance with the following rules of procedure: - <ol style="list-style-type: none"> <li>a) In case of a foreign Contractor, the arbitration proceeding shall be conducted in accordance with the United Nations Commission on International Trade Law (UNCITRAL) Arbitration Rules of 1976.</li> <li>b) In case of an Indian Contractor, adjudication/Arbitration proceedings shall be conducted in accordance with Indian Arbitration and Conciliation Act 1996. In case the Indian Contractor is an Indian Public Sector Enterprise/Government Department (but not a State Govt. Undertaking or Joint Sector Undertaking which is not a subsidiary of Central Govt. Undertaking), the dispute arising between the Owner and the Contractor shall be referred for resolution to a Permanent</li> </ol> </li> </ol>
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## HINDUSTAN URVARAK & RASAYAN LIMITED, BARAUNI

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		<p>Arbitration Machinery (PAM) of the Department of Public Enterprises, Government of India.</p> <p>c) In case of a foreign collaborator/associate of the Contractor, the arbitration proceedings shall be conducted in accordance with the United Nation Commission on International Trade Law (UNCITRAL) Arbitration Rules of 1976.</p> <p>(ii) in New Delhi, India (Place for Arbitration)</p> <p>(iii) in the language in which this Contract has been executed.</p> <p>The decision of a majority of the arbitrators (or of the third arbitrator chairing the arbitration, if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction as decree of the court. The parties thereby waive any objections to or claims of immunity from such enforcement.</p>
47	<b>Fraud Prevention Policy</b>	<p>The Supplier along with their associate / collaborator / subcontractors / sub-vendors / consultants / service providers shall strictly adhere to the Fraud Prevention policy of the Employer displayed on its tender website <a href="http://www.hurl.net.in">http://www.hurl.net.in</a>.</p> <p>The Supplier along with their associate / collaborator / subcontractors / sub-vendors / consultants / service providers shall observe the highest standard of ethics and shall not indulge or allow anybody else working in their organization to indulge in fraudulent activities during execution of the Contract (Purchase Order/Service Order).</p> <p>The Supplier shall immediately apprise the Employer about any fraud or suspected fraud as soon as it comes to their notice.</p>
48	<b>Risk purchase</b>	<p>In the event Contractor fails to execute the services in scheduled completion period, HURL reserves the right to get the job executed from any other source at the Contractors risk and cost and the difference in cost shall be borne by the Contractor.</p> <p>Further, HURL shall retain the right of forfeiture of Performance Security and or any other action as deemed fit.</p>
49	<b>Price Basis</b>	<ol style="list-style-type: none"> <li>1. The services shall be carried out at HURL Barauni as required by EIC.</li> <li>2. The contractor shall ensure that the submitted quotation shall be in line with the latest statutory compliance.</li> <li>3. To &amp; Fro, Fooding, Boarding, Lodging and Local conveyance is in the scope of contractor.</li> </ol>

<b>IMPORTANT NOTE</b>	<b>The Special Conditions of Contract will supersede any other related conditions anywhere in the tender documents and will prevail for evaluation / finalization of the tender.</b>
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# HINDUSTAN URVARAK & RASAYAN LIMITED

(A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL)

## BARAUNI UNIT

Barauni Urvarak Nagar, Begusarai

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115

[Registered Office SCOPE Minar, Core 4, 9TH Floor, Laxmi Nagar District Center, Delhi-110092]



## SECTION – IV

### ***SPECIAL CONDITIONS OF CONTRACTS (SCC)***

*The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Wherever there is a conflict, the provisions herein shall prevail over those in the GCC. The corresponding clause number of the GCC is indicated.*

SCC Clause	Reference Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract or additional clauses
1	Qualifying Requirements / Pre-Qualification Criteria (PQC)	As per clause 6.0 of Section 1 i.e., NIT (Notice Inviting Tender).
2	Price Bid/ BOQ	<p>Schedule of price bid / BOQ in the form of BOQ727.xls is provided along with this tender document at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>.</p> <p>Bidders are advised to upload the same in the commercial bid. Bidder shall not tamper/modify download price bid template in any manner. In case if the same is found to be tampered / modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with HURL.</p> <p>The quoted rate/amount shall be inclusive of taxes duties, levies including any other incidental charges applicable for the complete scope/supply excluding GST.</p> <p>The GST shall be paid extra as per the provisions of Clause 6 (i.e., Taxes and Duties) of SCC.</p> <p><b>Note: Quantity mentioned in the SOR is non-splitable under the tender.</b></p>
3	<u>Bid Evaluation</u>	<p><b><u>Pre-Qualification Evaluation</u></b></p> <p>HURL, by the examination of Techno-Commercial Bid, will determine to its satisfaction whether the participating bidders are qualified to satisfactorily perform the contract in terms of Pre- Qualification Criteria stipulated in clause 1 of SCC.</p> <p>An affirmative determination of meeting the Pre- Qualification Criteria will be a prerequisite for further evaluation of Techno-Commercial bid. A negative determination will result in rejection of the Bidder's Techno-Commercial Bid in which event HURL will not open the Price Bid of the concerned bidder and his EMD shall be returned.</p> <p><b><u>Technical Bid Evaluation</u></b></p> <p>Bids shall be scrutinized on Techno-Commercial parameters based on the documents as mentioned in Annexures to ITB. Bidders are required to submit fully compliant bid. The bidders are required to furnish no deviation certificate in conformity to same. The bidder who has not submitted / furnished such certificate, their price bid shall not be opened. The PRICE BID shall be opened only of those bidders whose bid would have been considered techno-commercially accepted. Conditional bid will not be accepted.</p> <p><b><u>Price Bid Evaluation</u></b></p>

		<p>Price bid(s) of the bidder(s) shall be evaluated on the basis of <b>item rate basis</b> of bidder's quote for all the items as quoted by bidder in SOR excluding GST amount.</p> <p>The lowest evaluated price of the technically qualified bidder shall be considered for initiating of Reverse Auction (RA) Process and the Lowest Received Price of the bidder after the completion of Reverse auction shall be considered for award.</p> <p>Reverse Auction (RA) Process shall be conducted on the total quantity of BOQ.</p> <p>The financial comparison for selection of Lowest (L-1) Bidder after reverse auction shall be done based on the total derived price of all the items mentioned in BOQ/SOR. The aggregate amount will be worked out as total derived price of all items of BOQ, shall be considered for evaluation and award.</p> <p>The successful bidder needs to submit the revised BoQ in line with price quoted by him in reverse auction. The ratio of percentage decrease in cost of each component shall be same as the overall percentage reduction in the bid value originally quoted by successful bidder and final L1 value quoted by successful bidder after reverse auction.</p> <p>The detailed Break-up of offered cost, provided by the successful bidder shall be considered and order, if placed, shall be with the same break-up of prices. The successful bidder after reverse auction will be responsible to ensure that the rate as per the breakup of prices provided by him after the reverse auction and total value offered by him in the reverse auction are in same proportion. The successful bidder will not be allowed to increase the rate of any component while submitting the breakup. While giving the break up, the successful bidder will have to consider same rate of taxes as quoted while submitting the commercial bid. In case the successful bidder(s) fail(s) to submit the final BoQ within 3 days or the break up given by bidder does not match with total offered price, the HURL will be at liberty to place order by proportionately reducing the component rates on basis of the breakup of the e-auction bid submitted by the successful bidder along with the initial offer and the same will be binding on the successful bidder.</p> <p><b>However, if Reverse Auction does not lead to any bid, HURL shall reserve the right to award the job based on the lowest prices quoted in online commercial bid.</b></p> <p>HURL Reserves the right to cancel the reverse auction as per the requirement. The management reserves the right to accept/ reject any or all tenders at the time prior to award of contract without assigning any reasons whatsoever.</p>
4	<b>Award Criteria</b>	<p>HURL reserves the right to negotiate price with L1 bidder.</p> <p>HURL will award the Contract to the successful Bidder whose Technical and Commercial bid has been determined to be substantially responsive and Price Bid to be the lowest evaluated Bid.</p> <p>HURL reserves the right to negotiate with the L1 Bidder after the opening of the price bid. The L1 bidder must respond to the communication within stipulated time. Failure to respond will be considered a deliberate delay in the tendering process or a lack of interest in the tender. As a result, the L1 bid will be deemed invalid, potentially resulting in your exclusion from future tender opportunities.</p>

		If intentional non-responsiveness is determined, HURL reserves the right to blacklist the bidder.
5	<b>Contract Price</b>	<p>Price to be quoted shall be firm and subject to no escalation whatsoever during the contractual completion period including extended period, if any, except for any statutory variations i.e. change in the rate of tax &amp; duty and/or inclusion of any new tax &amp; duty. Bid with variable price will not be accepted.</p> <ol style="list-style-type: none"> <li>1. Material shall be delivered at HURL, Barauni plant site.</li> <li>2. FOR – HURL Barauni</li> <li>3. Packing, Forwarding, Freight &amp; insurance is in the scope of supplier.</li> <li>4. For installation / ARC / AMC services, the services shall be carried out at HURL Barauni plant site as required by EIC. To &amp; Fro, Fooding, Boarding, Lodging and Local conveyance is in the scope of contractor.</li> </ol>
6	<b>Taxes and Duties</b>	<p>The Bidder shall include all the taxes, duties/ levies etc. (except GST) in their quoted rates / prices. GST charges shall be paid extra at actual by the owner limited to the GST charges indicated by the bidder in the summary of SOR. Statutory variation in taxes and duties including imposition of any new tax &amp; duty, within the scheduled Completion period, as per Contract/Work order, shall be paid by contractor.</p> <p>The Contractor has to submit / furnish all necessary documents / information to enable claim the input credit benefit, if any, under GST rules.</p> <p>The contractor shall indemnify the Company against levy of any taxes/charges etc., imposed by the Govt. or any authority which are in existence at the time of submission of tender and also future statutory levies and the Contractor failed to deposit the same. The Company shall have the right to recover the total amount of tax so assessed including litigation expenses from contractor's bills / security deposit.</p> <p>GST payment applicable at the time of awarding the contract shall be subject to any change in GST law in future.</p> <p>The GST part of the bill shall be paid only after confirmation of payment from the successful awarded bidder or after confirmation of the corresponding return filed by the contractor from the GST portal. The GST part of the bill shall be withheld till such confirmation.</p> <p>GST Registration Number of HURL Barauni is 10AADCH9368N1Z7</p> <p>Please mention GST Number &amp; PO number in Invoice / Challan wherever applicable and HURL shall not be liable for any delay in payment if the same is not mentioned.</p>
7	<b>Payment Terms &amp; Documents required for Payment</b>	<ol style="list-style-type: none"> <li>1. The Owner shall pay to the Contractor all the admissible payments on monthly basis for actual operated quantity within thirty (30) days of certification of the Engineer-in-Charge of the amount payable for the services.</li> <li>2. Bidder must deposit PBG 10% of the contract value in advance. PBG will be refunded after completion of the contract. In case of PBG payment through RTGS/NEFT, Bidder must mention "P727" in the transaction description while making the payment. The SD remains valid for 3 months beyond the completion date of all contractual obligations, including warranty or guarantee or defect liability period, whichever is later. Upon the completion of the mentioned SD duration, the contractor can apply in writing for the refund of the security deposit along with the necessary</li> </ol>

		<p>supporting documents. It is important to note that HURL reserves the right to forfeit the security deposit (SD) or performance bank guarantee (PBG) if the agency fails to fulfill the contract's terms and conditions, neglects their responsibilities, or does not satisfactorily execute the work.</p> <p>3. Tax deduction at source Income tax, as applicable as per income tax act, shall be deducted at source from the Contractor's bills and a certificate towards this deduction shall be issued to the Contractor.</p> <p>4. Price Basis: Shall be firm till the completion of the contract for ARC.</p> <p>5. For manpower contract any increasing or decreasing in statutory minimum wage as notified by the Government with respect to minimum wage shall be reimbursed to or deducted from the contractors bills from date of said increase or decrease effected by the Govt. in respect of each worker engaged by the contractor during pendency of the contractor. Also, consequential effect of increase/decrease, minimum wages toward PF (Limited to Employer's contribution only), bonus, ESI shall also be reimbursed to the contractor or deducted from the contractor's bill as case may be- subject to the production of the relevant proof. Mode of reimbursement of such differential wage will be as follows: "All difference in wage shall be reimbursed on actual labour deployment basis after completion of 12 months of contract period or final bill whichever is earlier on the written request of the contract with requisite statement and proof of documents for claim". However, the owner shall not reimburse any increase in amount thereof towards income tax and sale/trade at, any other applicable taxes etc. these liabilities are to be borne by the contractor only.</p> <p>6. <del>There shall be no service charges / profit component payable to the contractor on account of differential amount reimbursed to the contractor towards increase in the minimum wages.</del></p> <p>7. TDS shall be deducted as per the statutory norms.</p> <p>8. HURL's total sales turnover has exceeded Rs. 10 crores during the FY 2022-23. Consequently, we now qualify as a buyer under section 194Q of the Income Tax Act, and it is mandatory for us to deduct tax at a rate of 0.1% on the purchase of any goods with a value exceeding fifty lacs in the financial year or the aggregate of such value. All suppliers or contractors to discontinue the collection of tax (TCS) on all sales invoices. HURL will deduct tax at a rate of 0.1% TDS under section 194Q of the Income Tax Act.</p> <p>9. LD: If the Contractor fails to mobilize the services within the stipulated time or fails to deliver the scheduled material by the scheduled delivery date, the Contractor shall be liable for liquidated damages. This liability shall not prejudice any other rights or remedies of the Employer arising from the Contract due to such delay, be liable for payment of liquidated damages @ ½ percent per week, not as penalty, on the Contract Value of the Work for every week subject to a maximum of 5% of the Contract Value. In case of amendment in the contract value, the limiting value of the Liquidated damages shall be 5% of the amended Contract Value. The amount of Compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Owner.</p>
8	<b>Defect Liability Period</b>	Two months from the date of executed works.

9	<b>Governing Laws GCC CLAUSE 6</b>	As per GCC.
10	<b>Effective Date GCC CLAUSE 14 &amp; 15</b>	As per Section V i.e., Scope of Work, Technical Specifications and Other Terms and Conditions.
11	<b>Commencement of supply GCC CLAUSE 16</b>	As per Section V i.e., Scope of Work, Technical Specifications and Other Terms and Conditions.
12	<b>Insurance to be taken out by the Contractor  GCC CLAUSE 25</b>	<p>The contractor must provide insurance coverage for all their workers for death or bodily injury or occupational disease that may arise out of or in the course of employment, in accordance with statutory requirements and wherever applicable. The necessary insurance(s) to cover the risk of accidents resulting in the loss of life, material, etc., to the crew or third party, must also be arranged by the contractor at their cost. All contractor equipment is solely at the contractor's risk.</p> <p>The contractor must insure all their personnel employed for the execution of the work against any personal injury that may result from the execution of the work, and provide satisfactory evidence to the owner/consultant that such insurance is in force, wherever applicable.</p> <p>The contractor must take out a workers' compensation policy and an ESIC policy for the deputed manpower, and the charges are deemed to be included in the quoted price wherever applicable or as per statutory compliance. Any additional insurance required during the execution of the work is the responsibility of the contractor.</p> <p>The contractor must arrange transit insurance coverage for all risks associated with the transportation of materials from the source to the destination. Any additional insurance required during the execution of the work, such as for the supply of materials, is also the responsibility of the contractor, and the insurance charges are deemed to be included in the quoted price.</p> <p>When installation services are needed, the contractor must obtain all necessary insurance for their manpower/field service engineers and comply with all statutory requirements. HURL will not be liable for the contractor's insurance. The contractor must properly cover and protect any part of the work that may be susceptible to damage due to exposure to weather, and take every reasonable precaution against accidents or injury to the work from any cause. All contractor equipment will be at the sole risk of the contractor. Insurance coverage for the manpower entering the plant premises for the delivery of the item is the responsibility of the contractor.</p>
13	<b>Contractor's Actions Requiring Owner's Prior Approval</b>	<i>As per GCC</i>

	<b>GCC CLAUSE 26</b>	
<b>14</b>	<b>Contract Period</b>	The contract duration is for 24 months from the date of award of WO/PO/LOA whichever later, with an option to extend for an additional 12 months based on satisfactory performance, at the same rate, terms, and conditions, subject to mutual consent
<b>15</b>	<b>Signing of Contract Agreement</b>	<p>The successful tenderer / bidder shall be required to execute a contract agreement on non-judicial stamp paper of Rs.1000 in the prescribed proforma (enclosed as Annexure-11 to Section VI i.e., Forms and Procedures) with the Company within 30 (thirty) days of the issue of the work order of the same for carrying out the work according to the general and special conditions of contract specified in the Tender Document.</p> <p>Cost of non-judicial stamp paper shall be borne by successful bidder. The contract shall be presumed to be effective from the effective date contract. The Tender Document, Letter of Acceptance and other correspondence between the Company and the tenderers shall form part of the contract.</p> <p>Failure of the successful tenderer / bidder to execute the above-mentioned Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.</p>
<b>16</b>	<b>NOTICE OF DEFAULT</b>	In the event of any default by either party hereto, in respect of any of its obligations and responsibilities under the Contract, the party not in default shall give notice in writing to the other party calling upon it to rectify such default. Should the party in default does not rectify such default within a period of thirty (30) days of the receipt thereof within the said period, the other party shall be entitled to treat it as a breach of Contract and notice to that effect shall be given forth with.
<b>17</b>		If a tenderer resorts to any frivolous, malicious or baseless complaints/allegations with an intent to hamper or delay the tendering process or resorts to canvassing / rigging/influencing the tendering process, HURL reserves the right to debar such tenderer from participation in the future tenders up to a period of 2 years.
<b>18</b>		Bidders must before submission of their Bids, acquaint themselves with all applicable regulatory and other legal requirements pertaining to insurance and health, safety and environment requirement in India and rules related to work permit and visa requirements in India or in any way or manner affecting the performance of Scope of Work, the Contractor and the Plant operation and performance including social security, safety, pollution control, permits, licenses, and the other statutory requirements and regulations. The submission of a Bid by the Bidder will be construed as evidence that such an examination was made and the Bidder shall not raise at any time later any claims/disputes against the Owner and the Owner shall not be liable for the same in any manner whatsoever.
<b>19</b>		For proper execution of work sufficient numbers of tools & tackles are to be provided by the agency at their own cost, nothing shall be paid extra for this. The contractor shall abide by all statutory rules and regulations of Local authority, State and Central Govt. as the case may be with regard to statutory benefits and non-statutory benefits prevailing at HURL-Barauni as applicable, at his own cost and hence the agency has to quote their rate accordingly by taking care of all these. HURL reserve the right to terminate the contract at any time during the contract period in case performance is not found satisfactory and work not carried as per instruction of Officer-in-charge.



20	The Bid Specific conditions of contract mentioned In Section V shall supplement the Special Conditions of Contract (SCC) wherever applicable.
21	<p>General Note: Wherever applicable,</p> <ol style="list-style-type: none"> <li>1. The bidder must ensure that the transporter carries the necessary documents, including the driving license, RC book, PUC certificate, and insurance copy, during the delivery of materials along with the invoice.</li> <li>2. The bidder must mention the Purchase order number on the consignment / Product package with the name of the concerned technical department and stores department mentioned in the Section -1 of tender / NIT / RFQ.</li> <li>3. The bidder must share the dispatch details in advance with HURL C&amp;M - Purchase, C&amp;M- Stores and the indenting department as per the communication details mentioned in section 1 of the tender documents.</li> <li>4. The bidder must mention the HURL Purchase Order number and material code in the invoice/Delivery challan against each line item.</li> <li>5. The bidder must provide the transporter with the contact details of HURL store personnel / EIC for ease of communication as mentioned in the Section -1 of tender / NIT / RFQ.</li> <li>6. Wherever applicable, the bidder must submit Security deposit and Contract agreement copy within stipulated time as mentioned in tender documents. The formats of the same are mentioned in the FORMS or in the Last section of the tender document as annexures.</li> </ol> <p>Any delays caused by non-compliance with the above instructions may result in delayed payment, and HURL shall not be responsible for such instances.</p> <p># Note: HURL's total sales turnover has exceeded Rs. 10 crores during the FY 2022-23. Consequently, we now qualify as a buyer under section 194Q of the Income Tax Act, and it is mandatory for us to deduct tax at a rate of 0.1% on the purchase of any goods with a value exceeding fifty lacs in the financial year or the aggregate of such value. Therefore, we kindly request all our suppliers or contractors to discontinue the collection of tax (TCS) on all sales invoices. HURL will deduct tax at a rate of 0.1% TDS under section 194Q of the Income Tax Act.</p>
22	<p><b>MSE Seeking Exemption:</b></p> <ol style="list-style-type: none"> <li>1. MSEs seeking exemption and benefits should enclose an attested/self-certified copy of registration certificate i.e. Udyog Aadhaar Memorandum, certificate of incorporation, manufacturing license with production details (production capacity etc.) as a part of his bid, giving details such as stores/services, validity (if applicable) etc. failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.</li> <li>2. The benefit as above to MSEs shall be available only for Goods/Services produced &amp; provided by MSEs.</li> <li>3. Further, in case of tenders where splitting of quantity is possible, participating MSEs quoting price within price band of L1 + 15 percent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 percent of total tendered value. In case of more than one such MSE, the supply will be shared proportionately (to tendered quantity). However, in case of tenders where splitting of quantity is not possible, participating MSEs quoting price within price band of L1 + 15 percent shall be allowed to execute the package by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise. The award shall be made as follows: <ol style="list-style-type: none"> <li>3.1. Award shall be given to L1 bidder if L1 bidder is an MSE.</li> <li>3.2. In case L1 bidder is not an MSE, then all the MSE vendor(s) who have quoted within the range of L1 + 15%, shall be given the opportunity in order of their ranking (starting with the</li> </ol> </li> </ol>

	<p>lowest quoted MSE bidder and so on) to bring down its price to match with L1 bidder. Award shall be placed on the MSE vendor who matches the price quoted by L1 bidder.</p> <p>3.3. If no MSE vendor who has quoted within range of L1 + 15% accepts the price of L1 bidder then the award shall be made to the L1 bidder.</p> <p>4. Note: Generally, in tenders having Item-wise evaluation, splitting is allowed unless otherwise specified in the Special Conditions of Contract (SCC). Further, in tenders having Package wise evaluation generally splitting is not allowed. Please refer Special Conditions of Contract for specific tender provisions.</p> <p>5. If the quoted products are registered under supplier category in any government site / portal then such material shall not be considered under MSE category. As per answer to FAQ no. 18 circulated vide Office Memorandum F. No. 22(1)/2012-M A dt. 24.10.2016 "Policy is meant for procurement of goods produced and services rendered by MSEs. However, traders are excluded from the purview of benefits and exemption of MSEs.</p> <p>6. In case, Bidder is not a manufacturer of all such items which are a pre-requisite for extending MSE benefits of purchase preference, but is a manufacturer of at least one of the item(s) of the package, then benefits of EMD and Tender fee exemption only shall be extended in such cases and its bid shall be evaluated treated as Non-MSE bid.</p> <p>7. In support of above claim regarding manufacturing of each of the specified Item(s), Bidder will furnish necessary details of Stores/ Category of items etc. as mentioned in the 'Udyam Registration Certificate' along with the above Undertaking. In case, such details are not available in the Registration Certificate furnished by the Bidder for any of the above item(s), other relevant details / documentary evidence will be furnished along with the Undertaking in support of the claim that such item(s) are manufactured by the Bidder.</p>
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# HINDUSTAN URVARAK & RASAYAN LIMITED

(A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL)

## BARAUNI UNIT

Barauni Urvarak Nagar, Begusarai

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115

[Registered Office SCOPE Minar, Core 4, 9TH Floor, Laxmi Nagar District Center, Delhi-110092]



## SECTION – V

(SOR, TECHNICAL SPECIFICATIONS

SCOPE OF WORK AND OTHER TERMS & CONDITIONS)

## **SCOPE OF WORK**

**NAME OF WORK:** Annual Rate Contract for Supply of Services and manpower with tools and tackles to carryout mechanical maintenance activities at HURL, Barauni.

### **1.0 GENERAL**

- 1.1 The scope shall include the job activities mentioned in **Annexure – II** for specified services for various maintenance job activities. The described scope of work is not exhaustive but indicative only. Various work and services to be rendered by the Contractor shall include, but not limited to the following.
- 1.2 This additional special condition of contracts for the subject job is primarily for piping, Heat Exchanger, Reformer, Column, Vessel, Reactor, Regenerator, Pumps, Compressors (reciprocating / Centrifugal / Screw etc.), blowers, agitators, turbines, gear boxes, CT fans, ID/FD fans, centrifuges etc. & other mechanical miscellaneous jobs at HURL Barauni. Bidder shall make themselves familiar with site conditions before quoting for the job.
- 1.3 Bidders are to submit this additional special condition of contracts duly signed & stamped on each page as a token of acceptance along with their offer including special mention of deviation, if any. As such bidders are advised not to take any deviation.
- 1.4 Quantities indicated in the schedule of rate are tentative only and all the items may or may not be executed either partially or fully. Actual execution value of the contract may vary depending on the actual requirement and therefore there shall not be any compensation for non-execution of any item or multiple items either partially or fully. The bidder shall note that the quantities given in the “Schedule of Rates” are tentative subject to variation and they shall not be entitled to claim any extra or compensation on this account. Quantum of individual item may vary to any extent within WO total value. This clause shall supersede any other clause given anywhere in the tender documents.

### **2.0 SCOPE OF WORK & SUPPLY (CONTRACTOR)**

- 2.1 The successful bidder shall ensure his site-in-charge availability with his crews (adequate nos. & quality), tools & tackles, equipment's, machineries, consumables, materials etc. to take up any jobs as per the requirement of Engineer-in-Charge without any extra cost. During any emergency s/d or breakdown of unit contractor shall mobilize extra resource as per EIC required and carry out the job on round the clock basis without any extra payment.
- 2.2 Contractor will have to work at many fronts at a time as per the requirement of the Engineer-in-Charge. They shall make available different crews, tools & tackles, equipment, machinery, etc as per the job requirement for timely completion of the assigned job.
- 2.3 Normal Working time is 9 am to 6 pm, however the contractor has to carry out the job on round the clock basis including Sundays & holidays as per the requirement of EIC without any extra compensation / claim.
- 2.4 All required tools and tackles are to be arranged by the contractor and only tested lifting tools & tackles approved by authorized body / agency are to be used.
- 2.5 All types of required welding rods as per EIC must be kept in sufficient amount to carry out the welding jobs irrespective of electrode name indicated in SOR or anywhere.
- 2.6 The Contractor shall maintain minimum following tools and tackles as per **Annexure -III** in healthy working condition for execution of work assigned to him from time to time at different plant/ locations.  
Note:
  - a) Make of spanner & Tools: Mekaster/Snap On/Everest/Power Master/ Taparia
  - b) Make of Chain Pulley Blocks: INDEF/TRACTEL/MORRIS
  - c) Make of portable electrical Items: BOSCH, RALLIWOLF, BLACK DECKER
  - d) Lifting tool tackles like slings, D Shackles and Chain Pulley Blocks etc should be tested and certified by competent person.
  - e) MOC of non-sparking tools must be of COPPER TITATNIUM.

- 2.7 Contractor has to supply extra manpower, if required and ensure that supplied manpower should not be get engaged in any item wise categorized jobs of SOR. Separate and sufficient manpower has to placed at site for SOR related other jobs.
- 2.8 The aforementioned activities have to be executed in, and the supplied manpower have to execute the job in Urea, Ammonia, Offsites & Utility plants and associated facilities of Urea Fertilizer complex, as per the instruction of Engineer-in-charge.
- 2.9 Contractor has to ensure the availability of requisite resources, tools & tackles and adequate manpower (skilled / semi-skilled / unskilled) as per job requirement.
- 2.10 The contractor will have to engage manpower of various categories for 08 (Eight) working hours in general shift or in shift maintenance duty as per instruction of Engineer-in-charge.
- 2.11 HURL Engineer-in-charge will provide necessary work permit for commencement of work. However, the contractor or his site supervisor will have to ensure about necessary isolation of the equipment for safe working before commencement of work. Contractor shall follow HURL site safety standards.
- 2.12 Issue of necessary gate passes to contract workmen shall be under the scope of Contractor. HURL will only forward the documents for issue of gate passes after fulfilment of statutory requirements.
- 2.13 The Contractor shall maintain attendance records for manpower supplied as per the proforma mutually agreed with HURL and get it certified with Engineer-in-charge on daily basis.
- 2.14 Duty timings:  
The daily required man power will be deployed in General shift, 'A', 'B' and in 'C' shifts as per planning of HURL Engineer-in-charge. The below mentioned shift timings are indicative only and produced here for assessing tentative manpower requirement.  
General Shift: (9 AM-1.00 PM, 2.00 PM-6 PM)  
First Shift: (6.00 AM-02.00 PM)  
Second Shift: (2.00 PM-10.00 PM)  
Third Shift: (10.00 PM-06.00 AM)
- 2.15 The Manpower rates quoted shall be considered for normal working hours (8 hours) for 26 days.
- 2.16 Contractor shall deploy minimum man power for execution of job as mentioned in **Annexure-II** , as tabulated below :-

Sr. No	Manpower Category	Required Qty per day	Manpower Mapping
1	Site Supervisor	2 (1 for Rotary & 1 for Static)	Highly Skilled
2	Rotary Technician/MW Fitter Mech.	6	Skilled
3	Welder IBR	1	Highly Skilled
4	General Fitter	3	Skilled
5	Machinist	2	Skilled
6	Fabricator cum Grinder man	2	Skilled
7	Welder cum Gas cutter	3	Skilled
8	Rigger	10	Semi-Skilled
9	Helper	20	Un-Skilled
10	Crane and Hydra Operator	1	Skilled
11	Forklift Operator	1	Skilled

As per the plant requirement, the quantity of manpower may increase or decrease. Payment shall be made on actual job executed.

- 2.17 Contractor will provide required PPE'S and other safety equipment's to their manpower as per below list:

Sr. No.	Description
1	Hand Gloves – Plain, PVC Dotted, Leather, Kevlar, Rubber, Electrical
2	Arc flash Suit
3	Acid Resistant Suit

4	Safety Shoes
5	Gum Boots with metal toe
6	Safety Helmet
7	Safety Goggles
8	Rainwear
9	Uniform with reflectors
10	Dust Masks
11	Ear Muffs
12	Ear Plugs
13	Safety Net
14	Full Body Harness

- 2.18 Mill wright Fitter/Rotary Fitter should have hands on experience of rotary jobs like PM of centrifugal pumps, PM of Reciprocating /Metering/Diaph Pump, PM of Lobe type blower, PM of Cooling tower fans, PM of Oil Centrifuge, PM of Gear Box, Hot & cold alignment of Pumps/Compressor/turbines, Bearing replacement Jobs, Mechanical Seal overhauling & replacement jobs, Run out checking, complete overhauling of Centrifugal pumps-single/multi stage- Horizontal split & vertical split & vertical pit pumps, complete overhauling of gearbox, Complete overhauling of Fans & Blowers, Journal bearing clearance checking etc.
- 2.19 All Mill Right Fitters and General Fitters supplied will have to go through interview process conducted by HURL Engineer In charge. On successful clearing of interview only, manpower will be deployed at site. And any time workmanship not found in accordance to requirement, contractor has to replace the fitter with new one and same process of interview will be done with new candidate.
- 2.20 Same as above, Welder has to qualify welder certification test in front of HURL Engineer-In-Charge. Welder should have conversant with all position welding. Different metallurgy weld joints sample pieces will be tested for defects. On successful, defect free test sample, only welder will be allowed for deployment. For IBR welder, IBR certification is must.
- 2.21 Machinist should be capable of operating lathe machine, drill machine, slotter machine, milling machine, surface grinder, power saw, hydraulic press machine etc. HURL shall conduct practical test of machinist on the machines before allowing them to operate machines / machine tools.
- 2.22 Contractor has to provide vehicle (camper) for shifting of manpower and tools shifting within the plant and if required also for outside the plant (Intake well pump/ HURL Township).

### **2.23 Minimum qualification and Experience of personnel:**

Category wise relevant work experience of deputed person shall be as follows: -

Sr. No.	Category	Nature of experience
1.	Site Supervisor	Supervisory experience of minimum three years.
2.	Millwright Fitter / Rotary Technician (Mechanical)	Shall have hands on experience on the Rotary equipment like pumps, gearboxes, Blowers, Fans, compressors and turbines including alignment.
3.	Machinist / Turner	Shall have hands on experience on the different operations of Lathe, drill machine, shaping machine, slotting machine, power hacksaw and accuracy on machining jobs. He shall be capable for taking measurement by micro meter, Vernier callipers etc
4.	General fitter	Shall have hands on experience on the static equipment jobs
5.	Fabricator cum Grinder man	Grinding, Edge Preparation, Fabrication and erection of piping and structural jobs as per instruction.

6.	Welder cum Gas cutter	Shall be capable of gas cutting & welding of MS/CS/SS material at shop floor / at different heights / temporary platforms.  Welder test shall be conducted and only those welders qualified by HURL Quality Dept shall be allowed to work.
7.	Rigger	Shall be capable of fixing lifting devices at heights, lifting/shifting of heavy machines/structures to height. And giving appropriate signals to crane operators.
8.	Helper	Shifting of material and assist to Technician/Fitter/Welder/Rigger or jobs as per instructions of site engineer.
9	Rotary Technician/MW Fitter Mech.	Shall be capable in overhauling of rotary equipment like, pumps, compressor, agitator, blowers, fans, cooling tower fans and gear boxes etc. with proper measurement.
10	Crane and Hydra Operator	Shall be capable in operating both Hydra crane and Forklift.
11	Forklift Operator	Shall be capable in operating both Hydra crane and Forklift.

- 2.24 All resources (explicitly mentioned or not) shall be arranged by the contractor as per direction of EIC without any extra cost to complete the job within the time frame in safe manner.
- 2.25 Contractor must ensure IBR welder (all pressure), AS welder, SS welder, TIG welder duly approved by owner's inspection department. For dis-similar welding, payment will be made on higher grade.
- 2.26 Per Diem rate shall be paid for normal eight hours working. Sunday & any local holiday shall be considered as normal days. Overtime rate shall be paid only after 8 hours working on any normal day. The contractor shall arrange all the safety gadgets like helmets, safety shoes, hand gloves, grinding goggles etc. for their manpower and the supplied manpower. The contractor shall abide by all the safety rules and regulations of HURL. No job shall be undertaken without written permission from the Engineer-in-charge.
- 2.27 In some cases, if felt necessary by HURL the contractor may be asked to supply more manpower on Sundays / Holidays or round the clock. In such cases, no extra claim about item rates shall be entertained. Only actual no of manpower supplied shall be recorded.
- 2.28 The contractor will have to maintain accountability of materials issued to them in a register which include specification of materials, date of issue, quantity, cost code, I.V. no and purpose. A statement of materials issued/consumed during the month to be forwarded to Engineer-in-charge.
- 2.29 Scrap materials is to be disposed in the scrap yard / designated location as per instruction of EIC. The disposal shall be planned on daily basis so that site is free from debris and proper housekeeping can be ensured. Area cleaning is to be done on daily basis by the contractor. No unsafe condition on account of scrap shall be allowed.
- 2.30 Contractor has to keep records of all activities, spares etc. issued from owner's store. Reconciliation of the same is to be done with EIC on completion of job in line with GCC.
- 2.31 Contractor shall be required to submit daily reports of plan vs actual status of each activity in approved format for proper documentation & monitoring with target of completion. The format is to be finalized on award of the job by EIC.
- 2.32 Transportation of the materials issued from Stores to the place of work and return of unused materials to the Stores shall be in the scope of the Contractor.
- 2.33 Pre-heating before welding and post heating after welding wherever required is included in the work scope and no extra payment shall be admissible for the same.



- 2.34 All other consumables such as gas, grinding wheel, emery papers, WD40, emery paper, molycoat, all adhesive and sealant, various Loctite grades, markin cloths, graphite tape, jute, cotton waste etc. And other rotary and static maintenance activities related consumables for day to day maintenance shall be in the scope of contractor, unless & other wise specifically mentioned.
- 2.35 Sufficient quantity of grease gun, oil hand pump, oil can, keep etc. required for lubrication shall be under contractor scope.
- 2.36 The contractor shall employ such workers who are above 18 years of age. All personnel employed by the contractor shall have sound health, good character and conduct. They shall be medically fit and fully competent to perform the work.
- 2.37 All electrical connections and disconnections required for proper job execution shall be in contractors scope.
- 2.38 The contractor has to produce the load test certificate/license / registration of the deployed lifting tools and tackles and equipments to EIC/SIC before deployment / start up the jobs.
- 2.39 Hydra, Tractor trolley and other movable vehicles required for shifting of equipment/ materials from plant to contractor yard/workshop and vice-versa including fuel, vehicle insurance, load testing and other statutory compliance shall be under contractor scope.
- 2.40 The contractor shall ensure that the employees/ workmen employed by him, shall be neatly and properly dressed in appropriate cotton uniforms & PPEs embroidered with company's / agency's name and shall be polite decent and courteous to all officers / employees / workmen of HURL and shall maintain high standard of discipline, decency and decorum.
- 2.41 Contractor shall keep one separate dedicated person for coordinating with other departments like Production, F&S and HR/Security etc. for entry of materials, necessary permits and for the gate passes of its workmen etc.
- 2.42 Contractor has to keep authorized competent persons for adherence of instruction of the EIC.
- 2.43 Authorized supervisor has to plan the job in a systematic manner with instruction of engineer-in-charge otherwise owner will not be responsible for any loss due to utilized manpower.
- 2.44 Contractor is required to mobilize their resources to carry out the job within the time frame as per technical specification, instruction and satisfaction of the EIC.
- 2.45 Insurance coverage of workman shall be arranged for different category of jobs as applicable.
- 2.46 Measurements of work done are to be submitted to E-I-C within two days in triplicate with as built drawings/ sketches for checking and forwarding for payment as per billing approved schedule/ agreed terms and condition of payment.
- 2.47 The rate given in SOR is applicable for all grades of SS i.e. no extra payment shall be made on account of variation of SS grade, which is not mentioned in SOR.
- 2.48 The rate given in SOR is applicable for all grades of AS i.e. no extra payment shall be made on account of variation of AS grade, which is not mentioned in SOR.
- 2.49 All consumables shall be under contractor's scope and inventory of stocks shall be maintained by contractor.
- 2.50 All boarding / loading / Transportation / Local conveyance shall be in the scope of Contractor.
- 2.51 In the event of manpower replacement, the contractor should inform the EIC at least 7 days in advance. Within the same timeframe, the contractor should arrange for the replacement according to the specified process.

### **3.0 SCOPE OF WORK & SUPPLY (OWNER)**

- 3.1 HURL shall provide single electric power source. Further distribution for all machines is to be arranged by contractor with standard & approved (by Electrical Maintenance department of HURL Barauni) electrical fittings & wires.

- 3.2 All the required gaskets, gasket sheets, wire mesh, piping materials, spares for various stationary equipments, plates for blind cutting, valves & fasteners shall be supplied by HURL as FIM.
- 3.3 Readymade (spiral wound or as applicable) gaskets shall be provided by HURL in general. However, wherever it is decided by HURL, to use cut gasket, the same shall be cut by contractor, from the gasket sheet provided by HURL without any extra cost.
- 3.4 Hydra is under Contractor's scope. If required will be given by HURL on chargeable basis.
- 3.5 Space for material storage and for preparation of shed for seating of workman shall be provided by HURL at free of cost. However, preparation of store and shed is in contractor's scope.
- 3.6 Power, Industrial air, steam and water shall be provided by HURL at nearest single point at free of cost.

#### **4.0 CONTRACT SCHEDULE & MOBILIZATION PERIOD**

- 4.1 The initial contractual duration of contract shall be for a period of 24 months from the date of award of WO/PO/LOA (Work Order), whichever later with further provision of extension of another 12 months with same prices, terms & conditions on mutual consent basis provided the performance of the contractor is satisfactory as per EIC. However, in case of poor performance the contract shall be terminated with a notice period of 15 days without any liability.
- 4.2 Contractor shall mobilize all their resources within 15 days from the date of written request for mobilization received from EIC.

#### **5.0 SAFETY CLAUSES**

- 5.1 Safety is the paramount importance and therefore contractor has to deploy designated one no. safety supervisor in each shift in each unit. They have to supervise safety requirement as per direction & instruction of EIC and shall report to EIC or his authorized representative on hourly basis in writing.
- 5.2 The contractor & their men either skilled or unskilled shall undergo safety training before going to the job site. Necessary certificate from F&S Department, Barauni Fertilizer shall be obtained for the same.
- 5.3 All personal protective equipment's (PPE) are to be of ISI mark and to be arranged by the contractor for their workmen. The same must be of the brand as per HURL's F&S Department (preferably of Karam make).
- 5.4 Work permit system and work request system of HURL / Standard norms of fertilizer industry as per SHE policy shall be followed without fail. Contractor should follow strictly HURL HSE policy, failing which penalty for non-observance of safety norms shall be imposed as per GCC / SCC terms & conditions.
- 5.5 Contractor must ensure safety guidelines but not limited to the followings:
  - a. All electrical cables must be joint free & its insulation to be free from any defect / openings / cracks etc.
  - b. Electrical connection must be as per standard norms & HURL Electrical department instruction.
  - c. Gas tubes should not have any crack / external layer must be intact.
  - d. All the gas cutting system must have flash back arrestor at both end i.e., near to torch & another near to gas cylinder and also fitted with fusible plug. It must also have pressure gauges in healthy condition.
  - e. All gas cylinders must be kept on trolley or to be tied vertically with firm structure to avoid any fall during working.
  - f. Temporary common electrical source must have ELCV (30 m Amps) for protection of the system.
  - g. Test certificates of all the PPEs are to be submitted to HURL F&S department before using at site.

- h. Testing date must be written on grit blasting air vessel.
- i. ELCB & separate earthing wire must be provided in each & every welding machine.
- j. All grinding wheels expiry date must be punched / written on wheels.
- k. All grinding machine must be fitted with safety guard.
- l. All electrical equipment like welding machines, grinding machines, switch boards, cables etc shall be certified by HURL electrical department before usage.

5.6 Safety in totality like before start-up of job, during execution of job, commissioning of job etc is complete responsibility of contractor. This involves ensuring positive isolation of equipment before start-up of any job and during job execution, gas test before & during the job execution, proper clearance, stand by persons outside the confined space job execution, doing job at scaffolding & safety during hot jobs, lighting / exhaust fan related safety, equipment flushing etc. For ensuring the safety in totality contractor shall fulfill the shift wise check list and submit to the EIC / site Engineer. The check list shall be finalized along with EIC after award of the job and before starting of the job. The description given above is only indicative not exhaustive, however safety is complete responsibility of contractor.

5.7 Life line shall be arranged and used, if working in nonstandard platform.

## **6.0 STATUTORY REQUIREMENTS**

6.1 The contractor shall ensure all statutory requirements EPF, Insurance (job category-wise), ESI, TIN, Bonus, compliance to PMJJBY and PMSBY etc. as per SCC/GCC terms & conditions and all Central & State Government notification from time to time.

## **7.0 LABOUR LICENSE**

7.1 On award of the job, contractor has to obtain labour license for minimum workmen as per the requirement and written instruction given by EIC.

## **8.0 PAYMENT TERMS:**

The payment to be made against monthly running bills duly recommended by our site engineer after actual verification of measurement & deducting any dues, advances etc.

## **9.0 GUARANTEE:**

Executed work is guaranteed for a period of two month from the date of execution of job and if there will be any problem because of defective workmanship or negligence the same is to be repaired/rectified free of cost.

## **10.0 OTHER CLAUSES:**

- a) All tools & Tackles required for the jobs are to be arranged by the contractor at his own cost.
- b) All the scrap generated during the execution of the jobs shall be shifted to the site or store as per instructions of the Engineer – in – charge.
- c) All the consumables such as Oxygen/DA gases, cutting torch, gas hoses, electric welding machine (portable diesel engine driven welding machine – for patch welding jobs on lines outside the boundary of the factory), rustolene, cotton waste, measuring instruments like, vernier calliper, dial gauge, inside & outside micro meter, bore gauge, bevel protector, inside and outside callipers, spirit level, master level, magnetic stand, v-block etc. are in the scope of the contractor.

## **11.0 SAFETY GUIDELINES**

The contractor shall follow all safety rules and regulations for carrying out the jobs at site as per following-

- 11.1 All workers entering the plant should be physically fit and mentally alert for working.
- 11.2 All workers should wear tight fitting clothing with safety shoes. Loose clothing and use of chappals / sandals are strictly prohibited in the plant area.
- 11.3 All contract workers should be made familiar with safety precautions to be followed inside the plant.
- 11.4 Smoking and carrying smoking aids is not allowed in the plant area.
- 11.5 Before starting any job make sure that you have obtained the necessary work permits/ clearance from the concerned plant / area. Conditions of doing work should be well understood.
- 11.6 Any dangerous condition/ situation noted should be reported immediately to concern area EIC and report the same also to Fire Station.
- 11.7 Contract workers are not allowed to walk through or cross any operating units unless their duties require to do so.
- 11.8 Walking on pipe lines/ pipe racks is prohibited.
- 11.9 Drums, full or empty should not be used as workbenches or supports for any job. Proper scaffolding and ladders etc. must be used instead.
- 11.10 Cylinders will not be used as a roller for transferring the beams etc.
- 11.11 Fire Fighting Equipment are for use in case of fire emergency only and should not be misused/ shifted elsewhere.
- 11.12 In case of any fire, attempt to extinguish the fire with available firefighting equipment.
- 11.13 It is essential that all the roads should be kept free from obstructions all the time for the immediate approach of Ambulance/ Fire Tender during any emergency.
- 11.14 Workers should know about the hazards involved and safety precautions to be taken in their job engaged with.
- 11.15 Never allow sharp objects and projecting nails etc. lying at the working floor. Ensure good house-keeping on working floors free from obstacles.
- 11.16 First-Aid Boxes with sufficient medicines should be available near the job site.
- 11.17 Strict discipline should be enforced and unauthorised persons should not be allowed to move in the running plant area.
- 11.18 Good house-keeping should be maintained throughout the work period.
- 11.19 Safety devices and personal protective equipment as helmets, safety shoes, hand gloves, safety goggles, safety belt etc. must be used invariably wherever / whenever needed.
- 11.20 In case of any doubt, one should consult responsible EIC / plant concerned/ fire & safety personnel for necessary clarification.
- 11.21 Proper communication and co-operation between different agencies when they are working in the same area so that one does not create undue hazard for others.
- 11.22 Competent supervision at job site should be continuously ensured from contractor.
- 11.23 In case of hearing emergency siren, job should be stopped immediately.
- 11.24 Job should be stopped whenever instructed by Fire & Safety personnel/ Plant personnel.
- 11.25 All workers should be aware of nearest applicable assembly points.
- 11.26 Vehicle entry in plant is not allowed.
- 11.27 Sleeping / resting/ eating inside plant premises is not permitted.

- 11.28 Any instruction passed from plant personnel / Fire & Safety personnel should be followed.
- 11.29 Do not open any valves etc. in plant area. For drinking purposes, only drinking water available in plant areas should be used.
- 11.30 While doing hot works running water hose and fire extinguisher shall be kept ready.
- 11.31 During hot work jobs transmitters, cables & hoses etc near surrounding area shall be protected / covered with ceramic cloth.
- 11.32 Contractor vehicle entering / running in plant premises shall be equipped with spark arrester.
- 11.33 All tools/ tackles as ropes/ chains/ pulleys etc. should be fit for use without any discrepancy. Statutory Testing Certificates of all such tools should be available at site.
- 11.34 Additional/ specific instructions as advised for specific areas/ cases from time to time shall also be adhered to strictly.

#### **WRAPPING and COATING OF VESSELS/ UNDERGROUND PIPING ETC.**

Providing wrapping and coating as per the specifications including supply of all materials, tools and tackles, etc. The detailed specification for wrapping and coating is as under:

1. The surface preparation of pipes shall be done by grit/ shot blast cleaning to Swedish standard SA-2.
2. The grit/ shot blasting operation shall be carried out in the day time. Blast cleaning operation shall not be carried out in humid condition.
3. Only approved quality grit/ shot shall be used for grit/ shot blasting. The grit/ shot used shall be dry and free from any other impurities.
4. The grit/ shot blasted surface shall have a shining and near white metal appearances.
5. After grit/ shot blast cleaning, the surface shall be dry brushed to remove deposits.
6. The grit/ shot blasted surface should be inspected by quality control/ Inspection agency of owner and contractor.

#### **COATING SYSTEM**

Following steps shall be followed:

1. Application of one coat of primer.
2. Application of one coat of coal tar enamel.
3. Wrapping fibre glass.
4. Application of 2nd coat of coal tar enamel.
5. Wrapping of craft paper/ coal tar impregnated outer wrap.

#### **PRIMING**

1. Single coat of coal tar primer shall be applied manually with good quality of brushes. Following precautions shall be taken during application of primer.
2. Primer drum shall be inspected for manufacturing date batch No. etc.
3. Primer drum shall be rotated before opening for proper mixing.
4. Primer shall be applied within 12 hrs. of completion of sand blasting.
5. Primer shall be applied evenly all along the pipe surface.
6. Any holiday or bare pipe left over during priming shall be primed again.
7. Primer will not be applied during rainy/ moist weather.
8. After application of primer and before drying, adequate precaution shall be taken to avoid contact of dust/ sand etc. with primed surface.

9. Normal primer requires 1 hr. time for proper drying and becomes dead after 24 hrs. of its application.

10. Coating shall be completed within these limits failing which dead primer shall be cleaned and fresh primer shall be applied again.

## **COATING AND WRAPPING**

i) When the priming coat has dried and the surface of the primed pipe has been cleaned preferably by clean white rags to remove the settled dust just preceding of the coating operation. The pipe shall be coated with hot application of one coat of coal tar enamel to give a minimum thickness of 2.5 mm and to be securely bonded to the primer.

ii) The coal tar enamel shall be cut into lumps preferably at the storage place upon a clean platform with side boards and due care must always be exercised by the contractor to keep the broken enamel absolutely free from dirt, grass, water or any other foreign material up to the time when enamel is charged into the melting kettle.

iii) The coal tar enamel shall be slowly heated on reduced fire and maintained to the even temperature recommended for application i.e. 220 deg. C to 240 deg. C.

iv) Constant stirring shall be necessary in continuously operating melting kettles.

v) Melting kettle should have proper insulation.

vi) The melting kettle should be of movable type i.e. wheel mounted and have towing arrangement.

vii) The melting kettle should be kept near the work site. However, in no case the molten enamel shall be carried in bucket for more than 50-meter distance.

Viii) During pouring of molten enamel, fine wire mesh filter shall be used to avoid the flow of impurity/ dirt/ sand.

ix) During temporary interruption of the work the temperature in the kettle not shall be reduced by at least 50 deg. C below the normal specified temperature.

x) Any enamel heated to temperature in excess of the maximum allowable temperature shall be rejected and suitably disposed off by the contractor.

xi) Melting kettles/ pots shall always be maintained clean and in good working order and must be cleaned whenever deposits form on the heating surface.

xii) A uniform thickness of 2.5 mm of enamel shall be applied to the surface of the primed pipe.

xiv) The enamel shall be then reinforced by a spirally wrapped fiber glass wrap, pulled and embedded into the hot coating with an over lapping of edges of the wrap not less than 1/2" and not more than 1"

xv) This will be followed by another coat of hot coal tar enamel application with a uniform thickness of 1.5 mm followed by craft paper/ coal tar impregnated fiber glass covering.

xvi) The coating and wrapping must be absolutely free of wrinkles in the wrappers, pinholes, bubbles, holidays voids thin spots or foreign matter.

xvii) Rolls of wrapping material shall not be kept along the right of way and shall be stored properly and brought to site.

xviii) Wrapping material shall be so hauled and handled so as to prevent injury to the packages.

xix) No package shall be handled with hooks or thrown from trucks.

xx) Any such material which shows evidence of deterioration due to weather or any other cause shall be rejected.

## **COATING THICKNESS**

Minimum thickness of first coating should be 2.5 mm whereas total thickness should be approx. 4.5 mm.

## **TESTING**

Following testing shall be undertaken:

I) Physical Inspection: All the coated surface shall be visually inspected and all the wrinkles, bubbles, lack of overlap etc. shall be marked for repair.

li) Sound Test: The coating adhesion can be checked easily with small wooden hammer by soft striking on coated surface. Change in sound indicates coating defects and same can be checked there by peel test.

iii) Peel Test: The field bond test for coal tar enamel adhesion shall be performed at 50-80°F normal operating temperature of steel piping. If the coating temperature is above 80 °F or below 50 deg. F, pour cold or hot water over the test area to adjust the enamel temperature within this range. Using a knife, heated if necessary make two parallel cuts through the coating about 4 inch in length and 3/4 inch apart. With the edge of knife blade cut under the enamel strip at one end and loosen the enamel from the pipe the full width of the strip for about a 1/2" place the knife blade under the loosened end and apply a slow, steady pull upward on enamel strip.

iv) If the peel length exceeds 1/8", the test is a failure and two additional tests shall be made at two different locations on the same section. If the additional tests are satisfactory then the section shall be approved. If anyone additional test fails, the pipe section shall be rejected.

### **SPECIFICATION OF COAL TAR PRIMER**

The primer consists of processed coal tar pitch and refined coal tar oil suitably blended with a solvent without pigment or inert filler or other substances (to be applied cold) for brushing or spraying as liquid coat to the clean surface piping as provided for in AWWA specification C-203-73. The primer should have no tendency to settle down in the container and when applied without producing bubbles, becomes dry and hard to touch within specified time ensuring an effective bond between the metal pipe surface and the enamel coating. The main characteristics of the coal tar primer should be as follows:

1. Drying time to touch dry, at normal humidity at 32 deg. C is less than 1 hr.
2. Max Boiling point of solvent 25 deg. C.
3. Penetration of residue at 25 deg. C.
4. Softening point of residue (ASTM-D-36) 104 deg. C.
5. Flash point of (ASTM 1310) 37 deg. C.
6. Pigment
7. Solvent Benzol solvent or highly toxic volatile solvents excluded. Reputed Indian Supplier (for Coal Tar Enamel and Coal Tar Primer).

i) M/s Shalimar Tar Products, Calcutta.

ii) M/s Lloyd Insulation (India) Ltd., New Delhi.

### **2. SPECIFICATION FOR COAL TAR ENAMEL**

The enamel shall be a WWA coal tar enamel Type-I conforming to AWWA C-203- 86. The enamel shall be composed of a specially processed coal tar type blended with an inert mineral filter, properly graded, cleaned, dust free and without asphalt of either petroleum or nature base, to be applied to a recommended temperature. The main characteristics of the enamel shall be as follows: S. No. Test Enamel Type - 1 Min Max. 1. Softening Point, ASTM-D-36 104 deg.C 116 deg. C

2. Filter (ash) ASTMD-71 25% 35%

3. Ineness fillet through 90%

200 mesh. ASTM-D-54G

### **3. SPECIFICATION OF FIBRE GLASS INNER WRAPS**

The fibre glass inner wrap of high tensile long monofilament, chemically inert glass fibre in jack straces patterns mat reinforced by longitudinal continuous stands of glass fibre yarn blended with insoluble inert resinous binder compatible with hot coal tar enamel and should conform to the following specifications:

Tensile Strength (transverse) Kg/sq.cm 0.50 + 0.10 Weight 41gm/sq.m Reputed Indian Supplier for Fibre Glass paper and Kraft Paper:

i) M/s United Paper Product, Saharanpur, U.P.

ii) M/s FGP Limited New Delhi.

### **4. SPECIFICATION OF KRAFT PAPER**



The kraft paper shall be smooth bituminised to be supplied in rolls. The average weight of a composite bituminised craft paper shall be a minimum 120 Gms/sqm. A negative weight tolerance upto 5% of the composite weight may be permitted at the discretion to the owner (bituminised kraft paper with average weight less than 120 gm/sqm. is not acceptable). The bituminised kraft paper shall be composed of two layers of kraft paper each weighing not less

than 45 gm/sqm and laminated with a layer of bitumen approachments weight 50 gm/sqm to have a proper bond between the two layers of paper. The bituminized craft paper for field application shall be able to resist penetration.

Specific Gravity at 25 deg. C ASTM D-71 1.4 1.6

Penetration, ASTM-D-5

10 a) At 25 deg. C 100 gms. Weight 5 secs. High temperature test at 71 deg.C

1/32 (Sag O AWWA C-203. Sec. 2.8.9

Low temperature test at 23 deg. C (Cracking), AWWAC-203 sec. 2.8.10

Peel Test, AWWAC-203 sec. 2.8.11 No peeling Electrical Resistance test at 17000 Volts and low amperage (1.5 mm thickness)

Other Requirements (For wrapping and coating)

1. Third party Inspection certificate for all materials by any HURL approved TPIA or providing HURL approved manufacturers test certificate shall be in contractors scope.
2. Holiday testing machine shall be arranged and provided by contractor.
3. Vendor to submit transportation and Handling procedure
4. Vendor to submit and Get quality assurance plan (QAP) for wrapping and coating approved by owner/ Inspector.
5. The wrapping and coating surface must have machine finish in workmanship.

**BOQ****MINIMUM WAGES CALCULATION SHEET**  
**(FOR LINE ITEM 20 OF MANPOWER SERVICE)**

MINIMUM WAGE CALCULATION SHEET								
Sl.	Component	%	on	Unskilled	Semi Skilled	Skilled	Highly Skilled	Total
A	Minimum Wages Rate			504.00	589.00	709.00	832.00	
B	EPF	13.00%	A	65.52	76.57	92.17	108.16	
C	ESIC	3.25%	A	16.38	19.14	23.04	27.04	
D	Bonus	8.33%	A	41.98	49.06	59.06	69.31	
E	Insurance	2.50%	A	12.60	14.73	17.73	20.80	
F1	PMJJYV/PMSBY	Rs.1.46	Per Day	1.46	1.46	1.46	1.46	
F2	Fixed Contractor Profit Margin	3.85%	A/1.18	16.44	19.22	23.13	27.15	2,14,098.17
	Wage rate W/o F2			641.95	749.96	902.46	1,058.77	
G	Total Wage rate Per manday			658.39	769.18	925.59	1,085.91	
<b>Estimated cost: Contractor Profit</b>								
H	Required Manpower / Day			8	4	14	2	
I	No of Days			365	365	365	365	
J	No of Required Mandays		H*I	2920	1460	5110	730	
K	Total Manday Cost		G*J	19,22,499	11,23,001	47,29,764	7,92,715	85,67,978.83
L	Contractors Profit	11.74%	A*J	1,72,737	1,00,934	4,25,244	71,288	7,70,203.35
M	Total Manpower Cost		K+L	20,95,235	12,23,935	51,55,008	8,64,003	93,38,182.18

**BOQ**

Validate	Print	Help	<b>Item Rate BoQ</b>						
Tender Inviting Authority: <b>MANAGER, C&amp;M, HURL Barauni</b>									
Name of Work: <b>Annual Rate Contract for the Supply of Services and manpower, along with tools and tackles, to carry out mechanical maintenance activities</b>									
Contract No: <b>HURL/BR/CC/23-24/727</b>									
Name of the Bidder/ Bidding Firm / Company :									
<b>PRICE SCHEDULE</b> (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only.)									
A. For Line Item 10 in the below Bill of Quantity (BoQ), it pertains to ARC service line items excluding manpower. The bidder should quote based on the estimated value, the percentage increase or decrease will be applied to all the ARC service line items, except for manpower. For instance, if the bidder quotes INR 3,09,88,094.40/-, which is 10% below the estimated value (i.e., 3,44,31,216.00/-), then a 10% adjustment will be applied to all ARC service line items, excluding manpower.									
B. Regarding Line Item 20 - Manpower Services:									
a. Deployment of highly skilled manpower for 730 Mandays with wage rates of INR 1,085.91/MDS, totalling INR 7,92,714.30/-									
b. Deployment of skilled manpower for 5110 Mandays with wage rates of INR 925.59/MDS, totalling INR 47,29,764.90/-									
c. Deployment of semi-skilled manpower for 1460 Mandays with wage rates of INR 769.18/MDS, totalling INR 11,23,002.80/-									
d. Deployment of unskilled manpower for 2920 Mandays with wage rates of INR 658.39/MDS, totalling INR 19,22,498.80/-									
e. Total charges for the above manpower, including minimum wages, statutory charges, and Minimum Floor Price (MFP), amount to INR 85,67,980.80/-									
f. Estimated Contractor Profit for the above manpower is INR 7,70,201.35/-, with detailed cost details mentioned in Section V of the tender.									
g. The unit rates include minimum wages, statutory charges, and Minimum Floor Price (MFP) as per Gov Notification No.F.6/1/2023-PPD Dt. 06.01.2023.									
h. The minimum quote value/Minimum base price for the line item is INR 85,67,980.80/-. The bidder must enter a value above this amount, and the same incremental value shall be treated as contractor profit. For example, if the bidder quotes INR 90,00,000.00/-, then 4,32,019.20/- (90,00,000 - 85,67,980.80) will be treated as contractor profit, and the same will be uniformly loaded on the complete manpower quantity, i.e., 10,220 MDS (730+5110+1460+2920), resulting in 4,32,019.20/10220 = 42.27/MDS to be paid on each manday as contractor profit. The system will not allow quoting below the Minimum base price.									
C. Reverse Auction: In the case of a reverse auction, the decremental value will be loaded on all line items, while the Minimum base price will be fixed at INR 85,67,980.80/-.									
D. The Bidders shall quote rates up to two decimals only. Bidders are advised that only the first two decimals will be considered for evaluation if the quotation has more than two decimals. Bidders should refer to the Preamble to SOR mentioned in the tender document before quoting.									
E. GST: The quoted rate/amount shall be inclusive of all taxes and duties as per the tender but exclusive of GST. Bidders must quote their rates exclusive of GST. If applicable, GST shall be paid extra as per the applicable rates. Bidders must enter the required fields in the price bid; otherwise, the price bid shall be treated as invalid, and HURL will reject the price bid.									
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs.	BASIC RATE In Figures To be entered by the Bidder in Rs.	Gst IN %	TOTAL AMOUNT Without Taxes in Rs.	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8	9	10
1	ARC of Mechanical Services. (Items as mentioned in Section V)	1	LS	3,44,31,216.00			-	-	INR Zero Only
2	Deployment of Manpower services ( As per Section V)	1	LS	85,67,980.80			-	-	INR Zero Only
Total in Figures							-	-	INR Zero Only
Quoted Rate in Figures							Select		
Quoted Rate in Words							INR Zero Only		

**PRICE SCHEDULE:**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

**A. For Line Item 10 in the below Bill of Quantity (BoQ),** it pertains to ARC service line items excluding manpower. The bidder should quote based on the estimated value, the percentage increase or decrease will be applied to all the ARC service line items, except for manpower. For instance, if the bidder quotes INR 3,09,88,094.40/-, which is 10% below the estimated value (i.e., 3,44,31,216.00/-), then a 10% adjustment will be applied to all ARC service line items, excluding manpower.

**B. Regarding Line Item 20 - Manpower Services:**

- Deployment of highly skilled manpower for 730 Mandays with wage rates of INR 1,085.91/MDS, totalling INR 7,92,714.30/-
- Deployment of skilled manpower for 5110 Mandays with wage rates of INR 925.59/MDS, totalling INR 47,29,764.90/-
- Deployment of semi-skilled manpower for 1460 Mandays with wage rates of INR 769.18/MDS, totalling INR 11,23,002.80/-
- Deployment of unskilled manpower for 2920 Mandays with wage rates of INR 658.39/MDS, totalling INR 19,22,498.80/-
- Total charges for the above manpower, including minimum wages, statutory charges, and Minimum Floor Price (MFP), amount to INR 85,67,980.80/-
- Estimated Contractor Profit for the above manpower is INR 7,70,201.35/-, with detailed cost details mentioned in Section V of the tender.
- The unit rates include minimum wages, statutory charges, and Minimum Floor Price (MFP) as per Gov Notification No.F.6/1/2023-PPD Dt. 06.01.2023.
- The minimum quote value/Minimum base price for the line item is INR 85,67,980.80/-. The bidder must enter a value above this amount, and the same incremental value shall be treated as contractor profit. For example, if the bidder quotes INR 90,00,000.00/-, then 4,32,019.20/- (90,00,000 - 85,67,980.80) will be treated as contractor profit, and the same will be uniformly loaded on the complete manpower quantity, i.e., 10,220 MDS (730+5110+1460+2920), resulting in 4,32,019.20/10220 = 42.27/MDS to be paid on each Mandays as contractor profit. The system will not allow quoting below the Minimum base price.

**C. Reverse Auction:** In the case of a reverse auction, the decremental value will be loaded on all line items, while the Minimum base price will be fixed at INR 85,67,980.80/-.

**D.** The Bidders shall quote rates up to two decimals only. Bidders are advised that only the first two decimals will be considered for evaluation if the quotation has more than two decimals. Bidders should refer to the Preamble to SOR mentioned in the tender document before quoting.

**E. GST:** The quoted rate/amount shall be inclusive of all taxes and duties as per the tender but exclusive of GST. Bidders must quote their rates exclusive of GST. If applicable, GST shall be paid extra as per the applicable rates. Bidders must enter the required fields in the price bid; otherwise, the price bid shall be treated as invalid, and HURL will reject the price bid.

**BOQ****(FOR LINE ITEM 10 OF ARC SERVICE LINE ITEMS)**

Activity number	Short Text	Qty	UO M	Gross Price	Net Value
1000001943	WLDG,ARC,CS,GI,BW,UPTO SCH-40	500	ID	312.51	156255.00
1000001944	WLDG,ARC,CS,GI,BW,ABV SCH 40 UPTO SCH-80	250	ID	451.41	112852.50
1000001945	WLDG,ARC,CS,GI,BW,ABV SCH 80 UPTO SCH160	150	ID	520.85	78127.50
1000001947	WLDG,ARC,ROOT TIG,CS,GI,BW,UPTO SCH40	500	ID	694.47	347235.00
1000001948	WLDG,ARC,ROOT TIG,CS,BW,ABV SCH40-SCH80	250	ID	729.20	182300.00
1000001949	WLDG,ARC,ROOT TIG,CS,BW,ABV S80-160	150	ID	868.09	130213.50
1000001950	WLDG,ARC,ROOT TIG,CS,IBR,BW,UPTO SCH40	500	ID	729.20	364600.00
1000001951	WLDG,ARC,ROOT TIG,CS,IBR,BW,ABV SCH40-80	250	ID	729.20	182300.00
1000001954	WLDG,ARC,AS,BW,ABV SCH40 UPTO SCH80	250	ID	798.64	199660.00
1000001955	WLDG,ARC,AS,BW,ABV SCH80 UPTO SCH160	150	ID	868.09	130213.50
1000001956	WLDG,ARC,ROOT TIG,AS,BW,UPTO SCH40	300	ID	729.20	218760.00
1000001957	WLDG,ARC,ROOT TIG,AS,BW,ABV SCH40-80	250	ID	798.64	199660.00
1000001958	WLDG,ARC,ROOT TIG,AS,BW,ABV SCH80-160	100	ID	868.09	86809.00
1000001959	WLDG,ARC,ROOT TIG,AS,IBR,BW,UPTO SCH40	250	ID	729.20	182300.00
1000001960	WLDG,ARC,ROOT TIG,AS,IBR,BW,ABV SCH40-80	150	ID	729.20	109380.00
1000001961	WLDG,ARC,ROOT TIG,AS,IBR,BW,ABV S80-160	100	ID	868.09	86809.00
1000001962	WLDG,ARC,SS,BW,UPTO SCH40	500	ID	555.58	277790.00
1000001963	WELD,ARC,SS,BW,ABV SCH40 UPTO SCH80	250	ID	659.75	164937.50
1000001964	WELD,TIG,SS,BW, UPTO SCH40	500	ID	555.58	277790.00
1000001965	WLDG,TIG,SS,BW,ABV SCH40 UPTO SCH80	250	ID	659.75	164937.50
1000001966	WELD,TIG SS,BW,ABV SCH80 UPTO SCH160	100	ID	729.20	72920.00
1000001967	WLDG,ARC,STRAIGHT,MS	100	M	104.17	10417.00
1000001968	WLDG,ARC,STRAIGHT,SS	75	M	173.62	13021.50
1000001969	WLDG,ARC,STRAIGHT,AS	25	M	208.34	5208.50
1000001970	WLDG,ARC,CS,3000#,SW,UPTO 1/2"	100	NO	833.37	83337.00
1000001971	WLDG,ARC,CS,3000#,SW,3/4"	100	NO	833.37	83337.00
1000001972	WLDG,ARC,CS,3000#,SW,1"	100	NO	833.37	83337.00
1000001973	WLDG,ARC,CS,3000#,SW,>1"- 1- 1/2"	50	NO	1250.05	62502.50
1000001974	WLDG,ARC,AS,3000#,SW,UPTO 1/2"	50	NO	1250.05	62502.50
1000001975	WLDG,ARC,AS,3000#,SW,3/4"	50	NO	1250.05	62502.50
1000001976	WLDG,ARC,AS,3000#,SW,1"	50	NO	1250.05	62502.50
1000001977	WLDG,ARC,AS,3000#,SW, >1"- 1- 1/2"	25	NO	1666.73	41668.25
1000001978	WLDG,ARC,SS,3000#,SW,UPTO 1/2"	100	NO	1041.71	104171.00
1000001979	WLDG,ARC,SS,3000#,SW,3/4"	100	NO	1041.71	104171.00
1000001980	WLDG,ARC,SS,3000#,SW,1"	100	NO	1041.71	104171.00

1000001981	WLDG,ARC,SS,3000#,SW, >1"- 1- 1/2"	50	NO	1562.56	78128.00
1000001982	WLDG,ARC,CS,6000#,SW,UPTO 1/2"	100	NO	1041.71	104171.00
1000001983	WLDG,ARC,CS,6000#,SW,3/4"	100	NO	1041.71	104171.00
1000001984	WLDG,ARC,CS,6000#,SW,1"	75	NO	1041.71	78128.25
1000001985	WLDG,ARC,CS,6000#,SW, >1"- 1- 1/2"	40	NO	1562.56	62502.40
1000001986	WLDG,ARC,AS,6000#,SW,UPTO 1/2"	25	NO	1458.39	36459.75
1000001987	WLDG,ARC,AS,6000#,SW,3/4"	25	NO	1458.39	36459.75
1000001988	WLDG,ARC,AS,6000#,SW,1"	25	NO	1458.39	36459.75
1000001989	WLDG,ARC,AS,6000#,SW, >1"- 1- 1/2"	25	NO	2187.59	54689.75
1000001990	WLDG,ARC,SS,6000#,SW,UPTO 1/2"	25	NO	1250.05	31251.25
1000001991	WLDG,ARC,SS,6000#,SW,3/4"	20	NO	1250.05	25001.00
1000001992	WLDG,ARC,SS,6000#,SW,1"	20	NO	1250.05	25001.00
1000001993	WLDG,ARC,SS,6000#,SW, >1"- 1- 1/2"	20	NO	1875.07	37501.40
1000001994	WLDG,TIG,CS,SW,3000#,UPTO 1/2"	25	NO	833.37	20834.25
1000001995	WLDG,TIG,CS,SW,3000#,3/4"	25	NO	833.37	20834.25
1000001996	WLDG,TIG,CS,SW,3000#,1"	25	NO	833.37	20834.25
1000001997	WLDG,TIG,CS,SW,3000#,>1"- 1- 1/2"	25	NO	1250.05	31251.25
1000001998	WLDG,TIG,CS,SW,6000#,UPTO 1/2"	50	NO	1041.71	52085.50
1000001999	WLDG,TIG,CS,SW,6000#,3/4"	25	NO	1041.71	26042.75
1000002000	WLDG,TIG,CS,SW,6000#,1"	25	NO	1041.71	26042.75
1000002001	WLDG,TIG,CS,SW,6000#,>1"- 1- 1/2"	25	NO	1562.56	39064.00
1000002002	WLDG,TIG,AS,SW,3000#,UPTO 1/2"	50	NO	1250.05	62502.50
1000002003	WLDG,TIG,AS,SW,3000#,3/4"	50	NO	1250.05	62502.50
1000002006	WLDG,TIG,AS,SW,3000#,1"	50	NO	1250.05	62502.50
1000002007	WLDG,TIG,AS,SW,3000#,>1"- 1- 1/2"	25	NO	1666.73	41668.25
1000002008	WLDG,TIG,AS,SW,6000#,UPTO 1/2"	25	NO	1250.05	31251.25
1000002009	WLDG,TIG,AS,SW,6000#,3/4"	25	NO	1250.05	31251.25
1000002010	WLDG,TIG,AS,SW,6000#,1"	25	NO	1250.05	31251.25
1000002011	WLDG,TIG,AS,SW,6000#,>1"- 1- 1/2"	25	NO	1666.73	41668.25
1000002012	WLDG,TIG,SS,SW 3000#, UPTO 1/2"	100	NO	1041.71	104171.00
1000002013	WLDG,TIG,SS,SW,3000#,3/4"	100	NO	1041.71	104171.00
1000002014	WLDG,TIG,SS,SW,3000#,1"	75	NO	1041.71	78128.25
1000002015	WLDG,TIG,SS,SW,3000#,>1"- 1- 1/2"	40	NO	1562.56	62502.40
1000002016	WLDG,TIG,SS,SW,6000#,UPTO 1/2"	30	NO	1041.71	31251.30
1000002017	WLDG,TIG,SS,SW,6000#,3/4"	30	NO	1041.71	31251.30
1000002018	WLDG,TIG,SS,SW,6000#,1"	25	NO	1041.71	26042.75
1000002019	WLDG,TIG,SS,SW,6000#,>1"- 1- 1/2"	20	NO	1562.56	31251.20
1000002020	OP/BX,FLNG,150#,UP TO 2"	200	NO	145.84	29168.00
1000002021	OP/BX,FLNG,150#,2"-4"	100	NO	218.76	21876.00
1000002022	OP/BX,FLNG,150#,4"-8"	75	NO	437.52	32814.00
1000002023	OP/BX,FLNG,150#,8"-12"	25	NO	729.20	18230.00
1000002024	OP/BX,FLNG,150#,12"-18"	10	NO	1093.79	10937.90
1000002025	OP/BX,FLNG,150#,18"-24"	5	NO	1531.31	7656.55
1000002026	OP/BX,FLNG,150#,24"-36"	3	NO	2187.59	6562.77
1000002027	OP/BX,FLNG,150#,36"-54"	2	NO	3281.38	6562.76
1000002028	OP/BX,FLNG,150-300#,UP TO 2"	200	NO	145.84	29168.00
1000002029	OP/BX,FLNG,150-300#,2"-4"	100	NO	218.76	21876.00
1000002030	OP/BX,FLNG,150-300#,4"-8"	75	NO	437.52	32814.00
1000002031	OP/BX,FLNG,150-300#,8"-12"	25	NO	729.20	18230.00
1000002032	OP/BX,FLNG,150-300#,12"-18"	10	NO	1093.79	10937.90
1000002033	OP/BX,FLNG,150-300#,18"-24"	5	NO	1531.31	7656.55
1000002034	OP/BX,FLNG,150-300#,24"-36"	3	NO	2187.59	6562.77
1000002035	OP/BX,FLNG,150-300#,36"-54"	2	NO	3281.38	6562.76

1000002036	OP/BX,FLNG,300-600#,UP TO 2"	150	NO	145.84	21876.00
1000002037	OP/BX,FLNG,300-600#,2"-4"	75	NO	218.76	16407.00
1000002038	OP/BX,FLNG,300-600#,4"-8"	50	NO	437.52	21876.00
1000002039	OP/BX,FLNG,300-600#,8"-12"	20	NO	729.20	14584.00
1000002040	OP/BX,FLNG,300-600#,12"18"	10	NO	1093.79	10937.90
1000002041	OP/BX,FLNG,300-600#,18"-24"	5	NO	1531.31	7656.55
1000002042	OP/BX,FLNG,300-600#,24"-36"	3	NO	2187.59	6562.77
1000002043	OP/BX,FLNG,300-600#,36"-54"	2	NO	3281.38	6562.76
1000002044	OP/BX,FLNG,600-1500#,UP TO 2"	25	NO	160.42	4010.50
1000002045	OP/BX,FLNG,600-1500#,2"-4"	25	NO	240.63	6015.75
1000002046	OP/BX,FLNG,600-1500#,4"-8"	10	NO	481.27	4812.70
1000002047	OP/BX,FLNG,600-1500#,8"-12"	10	NO	802.12	8021.20
1000002048	OP/BX,FLNG,600-1500#,12"18"	10	NO	1203.17	12031.70
1000002049	OP/BX,FLNG,600-1500#,18"-24"	5	NO	1684.44	8422.20
1000002050	OP/BX,FLNG,600-1500#,24"-36"	5	NO	2406.35	12031.75
1000002051	OP/BX,FLNG,600-1500#,36"-54"	2	NO	3609.52	7219.04
1000002052	OP/BX,FLNG,1500-2500#,UP TO 2"	25	NO	160.42	4010.50
1000002053	OP/BX,FLNG,1500-2500#,2"-4"	25	NO	240.63	6015.75
1000002054	OP/BX,FLNG,1500-2500#,4"-8"	10	NO	481.27	4812.70
1000002055	OP/BX,FLNG,1500-2500#,8"-12"	10	NO	802.12	8021.20
1000002056	OP/BX,FLNG,1500-2500#,12"-18"	10	NO	1203.17	12031.70
1000002057	OP/BX,FLNG,1500-2500#,18"-24"	5	NO	1684.44	8422.20
1000002058	OP/BX,FLNG,1500-2500#,24"-36"	2	NO	2406.35	4812.70
1000002059	OP/BX,VLV,150#,UP TO 2"	50	NO	218.76	10938.00
1000002060	OP/BX,VLV,150#,2"-4"	50	NO	437.52	21876.00
1000002061	OP/BX,VLV,150#,4"-8"	50	NO	875.03	43751.50
1000002062	OP/BX,VLV,150#,8"-12"	25	NO	1458.39	36459.75
1000002063	OP/BX,VLV,150#,12"-18"	20	NO	2187.59	43751.80
1000002064	OP/BX,VLV,150#,18"-24"	10	NO	3062.62	30626.20
1000002065	OP/BX,VLV,150#,24"-36"	5	NO	4375.17	21875.85
1000002066	OP/BX,VLV,150#,36"-54"	2	NO	6562.76	13125.52
1000002067	OP/BX,VLV,300#,UP TO 2"	50	NO	218.76	10938.00
1000002068	OP/BX,VLV,300#,2"-4"	50	NO	437.52	21876.00
1000002069	OP/BX,VLV,300#,4"-8"	25	NO	875.03	21875.75
1000002070	OP/BX,VLV,300#,8"-12"	20	NO	1458.39	29167.80
1000002071	OP/BX,VLV,300#,12"-18"	10	NO	2187.59	21875.90
1000002072	OP/BX,VLV,300#,18"-24"	5	NO	3062.62	15313.10
1000002073	OP/BX,VLV,300#,24"-36"	2	NO	4375.17	8750.34
1000002075	OP/BX,VLV,600#,UP TO 2"	25	NO	240.63	6015.75
1000002074	OP/BX,VLV,600#,2"-4"	25	NO	481.27	12031.75
1000002076	OP/BX,VLV,600#,4"-8"	20	NO	962.54	19250.80
1000002077	OP/BX,VLV,600#,8"-12"	10	NO	1604.23	16042.30
1000002078	OP/BX,VLV,600#,12"-18"	10	NO	2406.35	24063.50
1000002079	OP/BX,VLV,600#,18"-24"	5	NO	3368.88	16844.40
1000002080	OP/BX,VLV,600-1500#,UP TO 2"	25	NO	240.63	6015.75
1000002081	OP/BX,VLV,600-1500#,2"-4"	25	NO	481.27	12031.75
1000002082	OP/BX,VLV,600-1500#,4"-8"	20	NO	962.54	19250.80
1000002083	OP/BX,VLV,600-1500#,8"-12"	10	NO	1604.23	16042.30
1000002084	OP/BX,VLV,600-1500#,12"-18"	10	NO	2406.35	24063.50
1000002085	OP/BX,VLV,600-1500#,18"-24"	5	NO	3368.88	16844.40
1000002086	OP/BX,VLV,600-1500#,24"-36"	2	NO	4812.69	9625.38
1000002087	OP/BX,VLV,1500-2500#,UP TO 2"	20	NO	240.63	4812.60
1000002088	OP/BX,VLV,1500-2500#,2"-4"	20	NO	481.27	9625.40

1000002089	OP/BX,VLV,1500-2500#,4"-8"	15	NO	962.54	14438.10
1000002090	OP/BX,VLV,1500-2500#,8"-12"	10	NO	1604.23	16042.30
1000002091	OP/BX,VLV,1500-2500#,12"-18"	5	NO	2406.35	12031.75
1000002092	OP/BX,VLV,1500-2500#,18"-24"	5	NO	3368.88	16844.40
1000002093	OP/BX,VLV,1500-2500#,24"-36"	2	NO	4812.69	9625.38
1000002094	OP/BX,LENS,CV,1500-2500#,UP TO 2"	15	NO	262.51	3937.65
1000002095	OP/BX,LENS,CV,1500-2500#,2"-4"	15	NO	525.02	7875.30
1000002096	OP/BX,LENS,CV,1500-2500#,4"-8"	15	NO	1050.04	15750.60
1000002097	OP/BX,LENS,CV,1500-2500#,8"-12"	10	NO	1750.07	17500.70
1000002098	OP/BX,LENS,CV,1500-2500#,12"-18"	5	NO	2625.10	13125.50
1000002099	OP/BX,LENS,CV,1500-2500#,18"-24"	2	NO	3675.15	7350.30
1000002100	SERV,VLV,GLND PACK, UPTO 2"	100	NO	83.34	8334.00
1000002101	SERV,VLV,GLND PACK, ABV 2"-UPTO 8"	100	NO	208.34	20834.00
1000002102	SERV,VLV,GLND PACK, ABV 8"-UPTO 16"	50	NO	500.02	25001.00
1000002103	SERV,VLV,GLND PACK, ABV 16"-UPTO 24"	25	NO	833.37	20834.25
1000002104	SERV,VLV,GLND PACK, ABV 24"-UPTO 36"	10	NO	1250.05	12500.50
1000002105	OP/BX,END/MH CVR,150#,8"-12"	15	NO	833.37	12500.55
1000002106	OP/BX,END/MH CVR,150#,12"-18"	10	NO	1250.05	12500.50
1000002107	OP/BX,END/MH CVR,150#,18"-24"	10	NO	1666.73	16667.30
1000002108	OP/BX,END/MH CVR,150#,24"-36"	10	NO	2083.42	20834.20
1000002109	OP/BX,END/MH CVR,150#,36"-50"	5	NO	2222.31	11111.55
1000002110	OP/BX,END/MH CVR,150#,50"-75"	5	NO	4375.17	21875.85
1000002111	OP/BX,END/MH CVR,150#,75"-100"	2	NO	5468.97	10937.94
1000002112	OP/BX,END/MH CVR,150#,100"-125"	2	NO	7291.96	14583.92
1000002113	OP/BX,END/MH CVR,150-300#,8"-12"	15	NO	833.37	12500.55
1000002114	OP/BX,END/MH CVR,150-300#,12"-18"	15	NO	1250.05	18750.75
1000002115	OP/BX,END/MH CVR,150-300#,18"-24"	10	NO	1666.73	16667.30
1000002116	OP/BX,END/MH CVR,150-300#,24"-36"	5	NO	2083.42	10417.10
1000002117	OP/BX,END/MH CVR,150-300#,36"-50"	5	NO	2222.31	11111.55
1000002118	OP/BX,END/MH CVR,150-300#,50"-75"	2	NO	4375.17	8750.34
1000002119	OP/BX,END/MH CVR,150-300#,75"-100"	2	NO	5468.97	10937.94
1000002120	OP/BX,END/MH CVR,300-600#,8"-12"	10	NO	916.70	9167.00
1000002121	OP/BX,END/MH CVR,300-600#,12"-18"	10	NO	1203.17	12031.70
1000002122	OP/BX,END/MH CVR,300-600#,18"-24"	10	NO	16122.5 1	161225.10
1000002123	OP/BX,END/MH CVR,300-600#,24"-36"	5	ID	2406.35	12031.75
1000002124	OP/BX,END/MH CVR,300-600#,36"-54"	5	NO	3609.52	18047.60
1000002125	OP/BX,END/MH CVR,600-1500#,8"-12"	10	NO	916.70	9167.00
1000002126	OP/BX,END/MH CVR,600-1500#,12"-18"	10	NO	1203.17	12031.70
1000002127	OP/BX,END/MH CVR,600-1500#,18"-24"	10	NO	16122.5 1	161225.10
1000002128	OP/BX,END/MH CVR,600-1500#,24"-36"	10	NO	2406.35	24063.50
1000002129	OP/BX,END/MH CVR,600-1500#,36"-54"	5	NO	3609.52	18047.60
1000002130	OP/BX,END/MH CVR,1500-2500#,8"-12"	10	NO	1000.04	10000.40
1000002131	OP/BX,END/MH CVR,1500-2500#,12"-18"	5	NO	1312.55	6562.75
1000002132	OP/BX,END/MH CVR,1500-2500#,18"-24"	5	NO	17588.2 0	87941.00
1000002133	OP/BX,END/MH CVR,1500-2500#,24"-36"	2	NO	2625.10	5250.20
1000002134	OP/BX,TUBE BUNDLE OF HE,	5	NO	20834.1 6	104170.80
1000002135	OP/BX,FURM,NORMFLNG,150#,UPTO 2"	20	NO	833.37	16667.40
1000002136	OP/BX,FURM,NORMFLNG,150#,DIA 2"-4"	20	NO	1250.05	25001.00
1000002137	OP/BX,FURM,NORMFLNG,150#,DIA 4"-8"	20	NO	2500.10	50002.00



1000002138	OP/BX,FURM,NORMFLNG,150#,DIA 8"-12"	10	NO	4166.83	41668.30
1000002139	OP/BX,FURM,NORMFLNG,150#,DIA 12"-18"	5	NO	6250.25	31251.25
1000002140	OP/BX,FURM,NORMFLNG,150#,DIA 18"-24"	5	NO	8750.35	43751.75
1000002141	OP/BX,FURM,NORMFLNG,150#,DIA 24"-36"	2	NO	12500.49	25000.98
1000002142	OP/BX,FURM,NORMFLNG,300#,UPTO 2"	10	NO	833.37	8333.70
1000002143	OP/BX,FURM,NORMFLNG,300#,DIA 2"-4"	10	NO	1250.05	12500.50
1000002144	OP/BX,FURM,NORMFLNG,300#,DIA 4"-8"	10	NO	2500.10	25001.00
1000002145	OP/BX,FURM,NORMFLNG,300#,DIA 8"-12"	5	NO	4166.83	20834.15
1000002146	OP/BX,FURM,NORMFLNG,300#,DIA 12"-18"	4	NO	6250.25	25001.00
1000002147	OP/BX,FURM,NORMFLNG,300#,DIA 18"-24"	2	NO	8750.35	17500.70
1000002148	OP/BX,FURM,NORMFLNG,300#,DIA 24"-36"	2	NO	12500.49	25000.98
1000002149	OP/BX,FURM,NORMFLNG,300-900#,UPTO 2"	10	NO	833.37	8333.70
1000002150	OP/BX,FURM,NORMFLNG,300-900#,DIA 2"-4"	10	NO	1250.05	12500.50
1000002151	OP/BX,FURM,NORMFLNG,300-900#,DIA 4"-8"	10	NO	2500.10	25001.00
1000002152	OP/BX,FURM,NORMFLNG,300-900#,DIA 8"-12"	5	NO	4166.83	20834.15
1000002153	OP/BX,FURM,NORMFLNG,300-900#,DIA 12"-18"	5	NO	6250.25	31251.25
1000002154	OP/BX,FURM,NORMFLNG,300-900#,DIA 18"-24"	2	NO	8750.35	17500.70
1000002155	OP/BX,FURM,NORMFLNG,300-900#,DIA 24"-36"	2	NO	12500.49	25000.98
1000002156	OP/BX,FURM,NORMFLNG,900-2500#,UPTO 2"	6	NO	833.37	5000.22
1000002157	OP/BX,FURM,NORMFLNG,900-2500#,DIA 2"-4"	6	NO	1250.05	7500.30
1000002192	OP/BX,FURM,NORMFLNG,900-2500#,DIA 4"-8"	6	NO	2500.10	15000.60
1000002193	OP/BX,FURM,NORMFLNG,900-2500#,DIA 8"-12"	4	NO	4166.83	16667.32
1000002194	OP/BX,FURM,NORMFLNG,900-2500#,DIA 12"-18"	2	NO	6250.25	12500.50
1000002195	OP/BX,FURM,NORMFLNG,900-2500#,DIA 18"-24"	2	NO	8750.35	17500.70
1000002196	OP/BX,FURM,NORMFLNG,900-2500#,DIA 24"-36"	2	NO	12500.49	25000.98
1000002197	OP/BX,BLND,SLIP PLT 150#,UPTO 2"	50	NO	166.67	8333.50
1000002198	OP/BX,BLND,SLIP PLT 150#,DIA 2"-4"	50	NO	333.35	16667.50
1000002199	OP/BX,BLND,SLIP PLT 150#,DIA 4"-8"	40	NO	666.69	26667.60
1000002200	OP/BX,BLND,SLIP PLT 150#,DIA 8"-12"	25	NO	1000.04	25001.00
1000002201	OP/BX,BLND,SLIP PLT 150#,DIA 12"-16"	25	NO	1333.39	33334.75
1000002202	OP/BX,BLND,SLIP PLT 150#,DIA 16"-24"	20	NO	2000.08	40001.60
1000002203	OP/BX,BLND,SLIP PLT 150#,DIA 24"-36"	10	NO	3000.12	30001.20
1000002204	OP/BX,BLND,SLIP PLT 150-300#,UPTO 2"	50	NO	166.67	8333.50
1000002205	OP/BX,BLND,SLIP PLT 150-300#,DIA 2"-4"	50	NO	333.35	16667.50
1000002206	OP/BX,BLND,SLIP PLT 150-300#,DIA 4"-8"	40	NO	666.69	26667.60
1000002341	OP/BX,BLND,SLIP PLT 150-300#,DIA 8"-12"	20	NO	1000.04	20000.80

1000002342	OP/BX,BLND,SLIP PLT 150-300#,DIA 12"-16"	10	NO	1333.39	13333.90
1000002343	OP/BX,BLND,SLIP PLT 150-300#,DIA 16"-24"	10	NO	2000.08	20000.80
1000002344	OP/BX,BLND,SLIP PLT 150-300#,DIA 24"-36"	5	NO	3000.12	15000.60
1000002345	OP/BX,BLND,SLIP PLT 300-600#,UPTO 2"	25	NO	183.34	4583.50
1000002346	OP/BX,BLND,SLIP PLT 300-600#,DIA 2"-4"	25	NO	366.68	9167.00
1000002164	OP/BX,BLND,SLIP PLT 300-600#,DIA 4"-8"	25	NO	733.36	18334.00
1000002165	OP/BX,BLND,SLIP PLT 300-600#,DIA 8"-12"	20	NO	1100.04	22000.80
1000002347	OP/BX,BLND,SLIP PLT 300-600#,DIA 12"-16"	10	NO	1466.72	14667.20
1000002349	OP/BX,BLND,SLIP PLT 300-600#,DIA 16"-24"	5	NO	2200.09	11000.45
1000002350	OP/BX,BLND,SLIP PLT 300-600#,DIA 24"-36"	5	NO	3300.13	16500.65
1000002351	OP/BX,BLND,SLIP PLT 600-1500#,UPTO 2"	25	NO	200.01	5000.25
1000002352	OP/BX,BLND,SLIP PLT 600-1500#,DIA 2"-4"	25	NO	400.02	10000.50
1000002353	OP/BX,BLND,SLIP PLT 600-1500#,DIA 4"-8"	20	NO	800.03	16000.60
1000002354	OP/BX,BLND,SLIP PLT 600-1500#,DIA 8"-12"	10	NO	1200.05	12000.50
1000002173	OP/BX,BLND,SLIP PLT600-1500#,DIA 12"-16"	5	NO	1600.06	8000.30
1000002174	OP/BX,BLND,SLIP PLT600-1500#,DIA 16"-24"	5	NO	2400.09	12000.45
1000002175	OP/BX,BLND,SLIP PLT 1500-2500,#UPTO 2"	20	NO	216.68	4333.60
1000002176	OP/BX,BLND,SLIP PLT1500-2500#,DIA 2"-4"	20	NO	433.35	8667.00
1000002177	OP/BX,BLND,SLIP PLT1500-2500#,DIA 4"-8"	20	NO	866.70	17334.00
1000002178	OP/BX,BLND,SLIP PLT1500-2500#,DIA 8"-12"	10	NO	1300.05	13000.50
1000002179	OP/BX,BLND,SLIP PLT1500-2500#,DIA12"-16"	10	NO	1733.40	17334.00
1000002180	OP/BX,BLND,SLIP PLT1500-2500#,DIA16"-24"	5	NO	2600.10	13000.50
1000002181	DMTL,SCRAP PIPE,SCAFF,GI/CS/AS/SS	2	MT	5903.01	11806.02
1000002182	DMTL,SCRAP PIPE,GI/CS/AS/SS	2	MT	4514.07	9028.14
1000002183	DMTL&RETURN,STORE,PIPE,SCAFF,GI/CS/AS/SS	2	MT	17362.00	34724.00
1000002184	DMTL & RETURN,STORE,PIPE,GI/CS/AS/SS	2	MT	10417.00	20834.00
1000002356	ERCT,PIPE,SS,UPTO SCH40,UPTO 2"	5	MT	5903.01	29515.05
1000002185	DMTL,OLD STRUCTURE,SHIFT TO SCRAPYARD	5	MT	4514.07	22570.35
1000002186	SCRAP, CUTTING, SHIFTING, UPTO 2MT	5	MT	1736.18	8680.90
1000002187	SCRAP, CUTTING, SHIFTING, >2MT	5	MT	1736.18	8680.90
1000002188	ERCT,PIPE,SS,UPTO SCH40,UPTO 2"	500	IN M	173.62	86810.00
1000002189	ERCT,PIPE,SS,UPTO SCH 40, 2"-6"DIA	400	IN M	173.62	69448.00
1000002190	ERCT,PIPE, SS,UP TO SCH 40,6-10" DIA	150	IN M	173.62	26043.00
1000002191	ERCT,PIPE,SS, UP TO SCH 40, 10"-16"DIA	100	IN M	173.62	17362.00

1000002208	ERCT,PIPE,SS,UP TO SCH 40, 16"-24"DIA	50	IN M	173.62	8681.00
1000002209	ERCT,PIPE,SS,UP TO SCH 40, 24"- 36"DIA	50	IN M	173.62	8681.00
1000002210	ERCT,PIPE,SS,UP TO 2", ABV SCH 40- SCH 80	500	IN M	173.62	86810.00
1000002211	ERCT,PIPE,SS,ABV SCH 40-SCH 80,2"- 6"DIA	400	IN M	173.62	69448.00
1000002212	ERCT,PIPE, SS,ABV SCH 40-SCH 80, 6- 10"	250	IN M	173.62	43405.00
1000002213	ERCT,PIPE,SS,ABV S 40-S 80,10"-16"DIA	100	IN M	173.62	17362.00
1000002214	ERCT,PIPE,SS,ABV S 40-S 80,16"-24"DIA	75	IN M	173.62	13021.50
1000002215	ERCT,PIPE,SS,ABV S 40-S 80,24"-36"DIA	50	IN M	173.62	8681.00
1000002216	ERCT,PIPE,SS,ABV SCH 80- SCH 160,-2" DIA	50	IN M	173.62	8681.00
1000002217	ERCT,PIPE,CS,AS UP TO SCH40, UPTO 2"DIA	500	IN M	173.62	86810.00
1000002218	ERCT,PIPE,CS,AS, UP TO SCH 40, 2"-6" DIA	500	IN M	173.62	86810.00
1000002219	ERCT,PIPE,CS,AS, UP TO SCH40, 6"- 10"DIA	300	IN M	173.62	52086.00
1000002220	ERCT,PIPE,CS,AS,UP TO SCH40,10-16"	200	IN M	173.62	34724.00
1000002221	ERCT,PIPE,CS,AS, UP TO SCH40, 16"- 24"DIA	100	IN M	173.62	17362.00
1000002222	ERCT,PIPE,CS,AS, UP TO SCH40, 24"- 36"DIA	50	IN M	173.62	8681.00
1000002223	ERCT,PIPE,CS,AS,ABV SCH40-SCH80,- 2"DIA	500	IN M	173.62	86810.00
1000002224	ERCT,PIPE,CS,AS,ABV SCH40-SCH80,2"- 6"DIA	500	IN M	173.62	86810.00
1000002225	ERCT,PIPE,CS,AS,ABV SCH40-SCH80,6- 10"DIA	250	IN M	173.62	43405.00
1000002226	ERCT,PIPE,CS,AS,ABV S40-S80,10"- 16"DIA	100	IN M	173.62	17362.00
1000002227	ERCT,PIPE,CS,AS,ABV S40-S80,16"- 24"DIA	50	IN M	173.62	8681.00
1000002228	ERCT,PIPE,CS,AS,ABV S40-S80,24"- 36"DIA	25	IN M	173.62	4340.50
1000002229	ERCT,PIPE,CS,AS,ABV S80-S XXS,-2"DIA	50	IN M	173.62	8681.00
1000002230	RMVL,SHFTNG & FXNG MOTOR 11-90 KW	50	NO	2430.65	121532.50
1000002231	RMVL,SHFTNG & FXNG MOTOR 90-315 KW	25	NO	4514.07	112851.75
1000002232	RMVL,SHFTNG & FXNG MOTOR 315 KW AND ABV	10	NO	12500.4 9	125004.90
1000002233	RMVL & FXNG MOTOR 11-90 KW	50	NO	2430.65	121532.50
1000002234	RMVL & FXNG MOTOR 90-315 KW	25	NO	4514.07	112851.75
1000002235	RMVL & FXNG MOTOR 315 KW AND ABV	10	NO	12500.4 9	125004.90
1000002236	FAB,ERECTION,STRUCTURES,INCLUDES SCAFF	2	TO N	22223.1 0	44446.20
1000002237	FAB,ERECTION,STRUCTURES	2	TO N	18056.2 7	36112.54
1000002238	WRAPPING AND COATING	50	M2	659.75	32987.50
1000002239	CUTTING,PLATE,BY GAS CUTTING,CS	200	M	24.31	4862.00
1000002240	CUTTING,PLATE,BY GRINDING,CS/AS	50	M	52.09	2604.50
1000002241	CUTTING,PLATE,BY GRINDING,SS	200	M	52.09	10418.00
1000002242	FAB,BLIND WITH TAIL,MS,3-5MM TH,3/4"	50	NO	34.72	1736.00

1000002243	FAB,BLIND WITH TAIL,MS,3-5MM TH,3/4"-1"	50	NO	34.72	1736.00
1000002244	FAB,BLIND WITH TAIL,MS,3-5MM TH,1"-2"	50	NO	69.45	3472.50
1000002245	FAB,BLIND WITH TAIL,MS,3-5MM TH,2"-6"	50	NO	208.34	10417.00
1000002246	FAB,BLIND WITH TAIL,MS,3-5MM TH,6"-10"	25	NO	347.24	8681.00
1000002247	FAB,BLIND WITH TAIL,MS,3-5MM TH,10"-14"	15	NO	486.13	7291.95
1000002248	FAB,BLIND WITH TAIL,MS,3-5MM TH,14"-20"	10	NO	694.47	6944.70
1000002249	FAB,BLIND WITH TAIL,MS,3-5MM TH,20"-24"	5	NO	833.37	4166.85
1000002250	FAB,BLIND WITH TAIL,MS,3-5MM TH,24"-36"	5	NO	1250.05	6250.25
1000002251	OP/BX,STRNR,150#, UPTO 2"	150	EA	104.17	15625.50
1000002252	OP/BX,STRNR,150#, 2"-4"	150	EA	208.34	31251.00
1000002253	OP/BX,STRNR,150#, 4"-10"	150	EA	381.96	57294.00
1000002254	OP/BX,STRNR,150#, 10"-16"	50	EA	659.75	32987.50
1000002255	OP/BX,STRNR,150#, 16"-24"	25	EA	1041.71	26042.75
1000002256	OP/BX,STRNR,150#, 24"-36"	5	EA	1562.56	7812.80
1000002257	OP/BX,STRNR,300#, UPTO 2"	100	EA	104.17	10417.00
1000002258	OP/BX,STRNR,300#, 2"-4"	100	EA	208.34	20834.00
1000002259	OP/BX,STRNR,300#, 4"-10"	100	EA	381.96	38196.00
1000002260	OP/BX,STRNR,300#, 10"-16"	20	EA	659.75	13195.00
1000002261	OP/BX,STRNR,300#, 16"-24"	10	EA	1041.71	10417.10
1000002262	OP/BX,STRNR,300#, 24"-36"	5	EA	1562.56	7812.80
1000002263	OP/BOX UP,HDR,BTM COLLECTOR,SAC/SBA/MB	15	NO	2916.78	43751.70
1000002264	OP/BOX UP,HDR,MIDDLE CLCTR,SAC/SBA/MB	15	NO	3055.68	45835.20
1000002265	OP/BOX UP,HEADER,INLET, SAC/SBA/MB/ACF	15	NO	3194.57	47918.55
1000002266	EREC,RMVL,VESSEL,EQUIPT,UP TO 2000KG	5	TO N	13190.00	65950.00
1000002267	EREC,RMVL,VESSEL,EQUIPT,ABV 2 -5 TON	5	TO N	13190.00	65950.00
1000002268	LOAD,UNLOAD,VESSEL,EQUIPT UPTO 10MT	5	TO N	2430.65	12153.25
1000002269	LOAD,UNLOAD,VESSEL,EQUIPT>10MT- UPTO 20MT	5	TO N	3125.12	15625.60
1000002270	"FAB,STRUCTRE,CS,UPTO 100KG"	2,000.00	KG	12.50	25000.00
1000002271	FAB,STRUCTRE,CS,>100KG TO 300KG	2,000.00	KG	12.50	25000.00
1000002272	FAB,STRUCTRE,CS,>300KG TO 1000KG	2,000.00	KG	12.50	25000.00
1000002273	OP/BOX UP, ACT/UCT SCREEN CELL	25	EA	336.82	8420.50
1000002274	REM/BOX UP, ACT/UCT GEAR BOX & MOTOR	20	NO	10417.08	208341.60
1000002275	PATCH, FAB, PIPE UPTO 300MM	20	EA	1041.71	20834.20
1000002276	PATCH, FAB, PIPE,>300MM AND UPTO 1000MM	10	EA	3472.36	34723.60
1000002307	DBL,ENCLSR,SHT,FRBLNKT,EXPLS,AREA	500	M2	83.34	41670.00
1000002308	"HDPE PIPE CUTTING/JOINTING,15 NB"	100	NO	34.89	3489.00
1000002309	"HDPE PIPE CUTTING/JOINTING,20 NB"	100	NO	41.22	4122.00
1000002310	"HDPE PIPE CUTTING/JOINTING 25 NB"	100	NO	50.38	5038.00
1000002311	"HDPE PIPE CUTTING/JOINTING 40 NB"	100	NO	61.83	6183.00
1000002312	"HDPE PIPE CUTTING/JOINTING 50 NB"	100	NO	80.01	8001.00

1000002313	"HDPE PIPE CUTTING/JOINTING 80 NB"	100	NO	104.64	10464.00
1000002314	"HDPE PIPE CUTTING/JOINTING 100 NB"	100	NO	123.66	12366.00
1000002315	"HDPE PIPE CUTTING/JOINTING 150 NB"	50	NO	151.14	7557.00
1000002316	"FAB OF STRAINER DIA-40 MM"	5	NO	103.12	515.60
1000002317	"FAB OF STRAINER DIA-50 MM"	5	NO	137.18	685.90
1000002318	"FAB OF STRAINER DIA-80 MM"	5	NO	206.24	1031.20
1000002319	"FAB OF STRAINER DIA-100 MM"	5	NO	274.83	1374.15
1000002320	"FAB OF STRAINER DIA-150 MM"	5	NO	412.47	2062.35
1000002321	"FAB OF STRAINER DIA-200 MM"	2	NO	550.12	1100.24
1000002322	"FAB OF STRAINER DIA-250MM"	2	NO	687.76	1375.52
1000002323	"FAB,INSTLTN OF CLAMPS F/DIA 15 MM PIPE	10	NO	264.07	2640.70
1000002324	"FAB,INSTLTN OF CLAMPS F/DIA 20 MM PIPE	10	NO	264.07	2640.70
1000002325	"FAB,INSTLTN OF CLAMPS F/DIA 25 MM PIPE	10	NO	264.07	2640.70
1000002326	"FAB,INSTLTN OF CLAMPS F/DIA 40 MM PIPE	10	NO	316.88	3168.80
1000002327	"FAB,INSTLTN OF CLAMPS F/DIA 50 MM PIPE	10	NO	396.10	3961.00
1000002328	"FAB,INSTLTN OF CLAMPS F/DIA 80 MM PIPE	10	NO	396.10	3961.00
1000002329	"FAB,INSTLTN OF CLAMPS F/DIA 100 MM PIPE	10	NO	396.10	3961.00
1000002330	"FAB,INSTLTN OF CLAMPS F/DIA 150 MM PIPE	5	NO	452.68	2263.40
1000002331	"FAB,INSTLTN OF CLAMPS F/DIA 200 MM PIPE	5	NO	528.13	2640.65
1000002332	"FAB,INSTLTN OF CLAMPS F/DIA 250 MM PIPE	5	NO	528.13	2640.65
1000002333	"FAB,INSTLTN OF CLAMPS F/DIA 300 MM PIPE	2	NO	633.76	1267.52
1000002334	"FAB,INSTLTN OF CLAMPS F/DIA 350 MM PIPE	2	NO	633.76	1267.52
1000002335	"FAB,INSTLTN OF CLAMPS F/DIA 400 MM PIPE	2	NO	792.20	1584.40
1000002336	"FAB,INSTLTN OF CLAMPS F/DIA 450 MM PIPE	2	NO	792.20	1584.40
1000002337	"FAB,INSTLTN OF CLAMPS F/DIA 500 MM PIPE	1	NO	1584.40	1584.40
1000002338	"FAB,INSTLTN OF CLAMPS F/DIA 600 MM PIPE	1	NO	1584.40	1584.40
1000002339	CLEANING & REFIXING OF PRILLING BUCKET	200	NO	1389.00	277800.00
1000000050	FAB OF CS MITRE BEND 45° UPTO SCH 40	10	ID	105.53	1055.30
1000000051	FAB OF CS MITRE BEND 45° >SCH 40-80	10	ID	158.49	1584.90
1000000052	FAB OF CS MITRE BEND 45° >SCH 80-160	10	ID	224.31	2243.10
1000000053	FAB OF CS MITRE BEND 45° SCH XX STRONG	10	ID	263.26	2632.60
1000000054	FAB OF CS MITRE BEND 90° UPTO SCH 40	20	ID	211.05	4221.00
1000000055	FAB OF CS MITRE BEND 90° >SCH 40-80	10	ID	316.98	3169.80
1000000056	FAB OF CS MITRE BEND 90° >SCH 80-160	10	ID	448.63	4486.30
1000000057	FAB OF CS MITRE BEND 90° SCH XX STRONG	5	ID	526.51	2632.55
1000000058	FAB OF CS RED UPTO 80 MM SCH 40	5	EA	850.23	4251.15
1000000059	FAB OF CS RED >80-100 MM SCH 40	5	EA	1093.16	5465.80
1000000060	FAB OF CS RED >100 TO 150 MM SCH 40	5	EA	1797.50	8987.50

1000000061	FAB OF CS RED >150 TO 200 MM SCH 40	5	EA	2340.06	11700.30
1000000062	FAB OF CS RED >200 TO 250 MM SCH 40	5	EA	3228.25	16141.25
1000000063	FAB OF CS RED >250 TO 300 MM SCH 40	5	EA	3262.98	16314.90
1000000064	FAB OF CS RED >300 TO 350 MM SCH 40	5	EA	3582.33	17911.65
1000000065	PROVISION OF CS RF PAD SIZE 2"	2	EA	429.42	858.84
1000000066	PROVISION OF CS RF PAD SIZE 3"	2	EA	850.23	1700.46
1000000067	PROVISION OF CS RF PAD SIZE 4"	2	EA	1093.16	2186.32
1000000068	PROVISION OF CS RF PAD SIZE 6"	2	EA	1797.50	3595.00
1000000069	PROVISION OF CS RF PAD SIZE 8"	2	EA	2340.06	4680.12
1000000070	PROVISION OF CS RF PAD SIZE 10"	2	EA	3228.25	6456.50
1000000075	PROVISION OF RF PAD AS BRANCH SIZE 2"	2	EA	609.57	1219.14
1000000076	PROVISION OF RF PAD AS BRANCH SIZE 3"	2	EA	1163.26	2326.52
1000000077	PROVISION OF RF PAD AS BRANCH SIZE 4"	2	EA	1574.40	3148.80
1000000078	PROVISION OF RF PAD AS BRANCH SIZE 6"	2	EA	2448.43	4896.86
1000000079	PROVISION OF RF PAD AS BRANCH SIZE 8"	2	EA	3187.47	6374.94
1000000080	PROVISION OF RF PAD AS BRANCH SIZE 10"	2	EA	4444.48	8888.96
1000000081	PROVISION OF RF PAD AS BRANCH SIZE 12"	2	EA	5272.65	10545.30
1000000085	PROVISION OF RF PAD SS BRANCH SIZE 2"	2	EA	729.21	1458.42
1000000086	PROVISION OF RF PAD SS BRANCH SIZE 3"	2	EA	1308.63	2617.26
1000000087	PROVISION OF RF PAD SS BRANCH SIZE 4"	2	EA	1780.67	3561.34
1000000088	PROVISION OF RF PAD SS BRANCH SIZE 6"	2	EA	2806.87	5613.74
1000000089	PROVISION OF RF PAD SS BRANCH SIZE 8"	2	EA	3654.10	7308.20
1000000113	HYDROTEST OF PIPE LINES	1,000.00	IN M	13.67	13670.00
1000000114	HYDROTEST OF TANKS/BULLET	20	M3	150.30	3006.00
1000000198	DEMISPAD REPLACEMENT UPTO 1MM DIA	5	EA	697.19	3485.95
1000000199	DEMISPAD REPLACEMENT >1-2MM DIA	5	EA	882.04	4410.20
1000000200	DEMISPAD REPLACEMENT >2-3MM DIA	5	EA	1323.06	6615.30
1000000201	DEMISPAD REPLACEMENT >3-4MM DIA	5	EA	1435.03	7175.15
1000000270	REVISIONING OF BURNER ASSEMBLY	20	EA	1506.34	30126.80
1000000271	CLEANING/ REPLACEMENT OF FILTER	200	EA	263.58	52716.00
1000000274	OP/BX UP OF HE CHNL CVR < 600 TUBES	15	EA	4295.08	64426.20
1000000275	OP/BX UP OF HE CHNL CVR > 600 TUBES	10	EA	6921.15	69211.50
1000000276	OP/BX UP OF HE CHNL CVR < 600 TUBES-DBL	10	EA	8590.15	85901.50
1000000277	OP/BX UP OF HE CHNL CVR > 600 TUBES-DBL	10	EA	13842.30	138423.00
1000000281	HYDROTEST/PNEU TEST OF HE S/S	100	M3	962.01	96201.00
1000000282	HYDROTEST/PNEU TEST OF HE T/S	8,000.00	NO	24.94	199520.00
1000000283	TUBE PLUGGING UPTO 12 MM TUBE DIA	20	EA	962.01	19240.20
1000000284	TUBE PLUGGING >12-25 MM TUBE DIA	20	EA	1211.42	24228.40
1000000285	TUBE PLUGGING ABV 25 MM TUBE DIA	20	EA	1781.50	35630.00
1000000286	SEAL WELDNG OF EXCH TUBE-20MM	25	EA	109.01	2725.25
1000000287	SEAL WELDNG OF EXCH TUBE-25MM	25	EA	119.28	2982.00
1000000288	TESTING OF OIL,AIR,INTER & AFTER COOLER	15	EA	11602.82	174042.30

1000000289	SAMPLE COOLER REVISIONING/CLEANING	40	EA	795.38	31815.20
1000000302	RMVL/INSTLTN OF TRAY/PACKING/FERRULE	1,000. 00	KG	17.47	17470.00
1000000303	RMVL OF TRAYS/DOWNCOMER PACKING	1,000. 00	KG	18.20	18200.00
1000000304	INSTLTN OF PACKING/RACHIG RING/FERRULES	1,000. 00	KG	24.26	24260.00
1000000305	INSTLTN OF TRAYS/DOWNCOMER PACKING	1,000. 00	KG	23.29	23290.00
1000000306	MAINT OF VESSEL/COUMN/TOWER	250	M2	354.43	88607.50
1000002362	PHE cleaning and box up upto 50 plate	10	EA	15000.0 0	150000.00
1000002363	PHE cleaning and box up 51-100 plate	10	EA	20000.0 0	200000.00
1000002364	PHE cleaning and box up 101-200 plate	15	EA	25000.0 0	375000.00
1000002365	PHE cleaning and box up 201-300 plate	15	EA	30000.0 0	450000.00
1000002366	PHE cleaning and box up 301-400 plate	5	EA	35000.0 0	175000.00
1000000309	DECHOCKING OF PROCESS LINE DIA UPTO 1"	20	M	105.84	2116.80
1000000310	DECHOCKING OF PROCESS LINE DIA 1"	20	M	158.77	3175.40
1000000311	DECHOCKING OF PROCESS LINE DIA 8"	20	M	211.69	4233.80
1000000312	DECHOCKING OF PROCESS LINE DIA 4"	20	M	317.53	6350.60
1000000313	DECHOCKING OF PROCESS LINE DIA 4"	20	M	423.38	8467.60
1000000314	DECHOCKING OF PROCESS LINE DIA 6"	20	M	635.07	12701.40
1000000315	DECHOCKING OF PROCESS LINE DIA 8"	20	M	846.75	16935.00
1000000317	REVISIONING OF PEEP HOLES	50	EA	841.21	42060.50
1000000356	REVISIONNING OF EXPLOSION DOOR	4	EA	3666.95	14667.80
1000000430	PM OF CENT PUMP UPTO 5 KW	42	EA	1414.46	59407.32
1000000431	PM OF CENT PUMP >5 TO 18.5 KW	34	EA	1414.46	48091.64
1000000432	PM OF CENT PUMP >18.5 TO 55 KW	34	EA	2121.69	72137.46
1000000433	PM OF CENT PUMP >55 TO 110 KW	21	EA	2121.69	44555.49
1000000434	PM OF CENT PUMP >110 TO 220 KW	16	EA	2121.69	33947.04
1000000435	PM OF CENT PUMP >220 TO 550 KW	3	EA	2828.92	8486.76
1000000436	PM OF CENT PUMP >550 TO 1100 KW	11	EA	2828.92	31118.12
1000000437	PM OF CENT PUMP >1100 TO 1800 KW	7	EA	3536.15	24753.05
1000000438	PM OF CENT PUMP >1800 TO 3000 KW	7	EA	3536.15	24753.05
1000000439	PM OF RECIP PUMP UPTO 5 KW	61	EA	1378.54	84090.94
1000000440	PM OF RECIP PUMP >5 TO 18.5KW	8	EA	1378.54	11028.32
1000000441	PM OF RECIP PUMP 118 KW	2	EA	2067.81	4135.62
1000000442	PM OF SCREW/GEAR PUMP UPTO 5 KW	10	EA	989.52	9895.20
1000000443	PM OF SCREW/GEAR PUMP >5 TO 18.5KW	10	EA	1979.04	19790.40
1000000444	PM OF SCREW/GEAR PUMP >18.5KW TO 55 KW	10	EA	2968.56	29685.60
1000000445	PM OF CT FANS	15	EA	1061.34	15920.10
1000000446	ALIGNMENT OF CT GB WITH MOTOR	5	EA	2207.20	11036.00
1000000447	REPLACEMENT OF CT GEAR BOX	2	EA	23662.7 0	47325.40
1000000448	SHAFT REPLACEMENT OF CT	2	EA	4881.30	9762.60
1000000449	HUBS/BLADES REPACEMENT OF CT	3	EA	2546.76	7640.28
1000000450	BLADE ANGLE CHECKING/SETTING	24	EA	1018.72	24449.28
1000000451	CT SUMP SCREEN CLEANING	7	EA	679.16	4754.12
1000000452	PM OF FIN FAN COOLER UPTO 30 KW	4	EA	2477.80	9911.20
1000000453	PM OF AGITATORS UPTO 5 KW	10	EA	1979.04	19790.40



1000000454	PM OF AGITATORS ABOVE 5 KW UPTO 18.5 KW	2	EA	2473.80	4947.60
1000000455	PM OF LOBE BLOWER UPTO 7.5 KW	4	EA	1149.12	4596.48
1000000456	PM OF LOBE BLOWER >7.5 KW UPTO 22.5 KW	2	EA	1149.12	2298.24
1000000457	PM OF LOBE BLOWER >22.5 KW UPTO 45 KW	1	EA	1723.68	1723.68
1000000458	PM OF LOBE BLOWER >45 KW UPTO 100 KW	1	EA	1723.68	1723.68
1000000459	PM OF LOBE BLOWER >100 KW UPTO 290 KW	1	EA	2298.24	2298.24
1000000460	PM OF FANS/BLOWERS UPTO 5 KW	2	EA	1326.68	2653.36
1000000461	PM OF FANS/BLOWERS >5 TO 18.5 KW	2	EA	1326.68	2653.36
1000000462	PM OF FANS/BLOWERS >18.5 TO 55 KW	2	EA	1326.68	2653.36
1000000463	PM OF FANS/BLOWERS >55 TO 110 KW	2	EA	1990.02	3980.04
1000000464	PM OF FANS/BLOWERS >110 TO 220KW	2	EA	2653.36	5306.72
1000000465	PM OF FANS/BLOWERS >220 TO 550 KW	2	EA	2653.36	5306.72
1000000466	PM OF FANS/BLOWERS >550 TO 1100 KW	2	EA	3316.70	6633.40
1000000467	PM OF FANS/BLOWERS >1100 TO 1800 KW	2	EA	3980.04	7960.08
1000000468	PM OF OIL CENT. UPTO 30 KW	2	EA	2597.52	5195.04
1000000469	OIL CENT. MODE/BOWL CHANGE	24	EA	1047.38	25137.12
1000000470	PM OF DIESEL ENGINE 450 KW	4	EA	6226.83	24907.32
1000000471	PM OF DIESEL ENGINE 2.5 MW	3	EA	2075.61	6226.83
1000000472	PM OF ROTARY SCRAPER 16.1 KW	2	EA	2044.88	4089.76
1000000473	PM OF ROTARY SCRAPER GREASE PUMP 0.5 KW	4	EA	4089.76	16359.04
1000000474	PM OF ROTARY MECHANISM FOR BSS 4.75 KW	4	EA	3439.38	13757.52
1000000475	PM OF HOISTING MECHANISM FOR BSS 0.37 KW	4	EA	4060.82	16243.28
1000000476	PM OF STEAM TURB 30 KW	1	EA	1933.16	1933.16
1000000477	PM OF STEAM TURB 55 KW	1	EA	1933.16	1933.16
1000000478	PM OF STEAM TURB 90 KW	2	EA	3866.32	7732.64
1000000479	PM OF STEAM TURB 730 KW	2	EA	3866.32	7732.64
1000000480	PM OF STEAM TURB 1218 KW	1	EA	5799.48	5799.48
1000000481	PM OF STEAM TURB 1451 KW	1	EA	5799.48	5799.48
1000000482	PM OF STEAM TURB 1573 KW	1	EA	7732.64	7732.64
1000000483	PM OF STEAM TURB 1602 KW	1	EA	9665.80	9665.80
1000000484	PM OF STEAM TURB 1844 KW	1	EA	9665.80	9665.80
1000000485	PM OF GEAR BOX UPTO 5 KW	10	EA	1556.12	15561.20
1000000486	PM OF GEAR BOX >5 TO 18.5KW	10	EA	1556.12	15561.20
1000000487	PM OF GEAR BOX >18.5 TO 55KW	10	EA	2334.18	23341.80
1000000488	PM OF GEAR BOX 5015 KW	2	EA	3890.30	7780.60
1000000489	PM OF GEAR BOX 3430 KW	2	EA	4668.36	9336.72
1000000490	PM OF GEAR BOX 1850 KW	1	EA	2334.18	2334.18
1000000491	PM OF GEAR BOX 1220 KW	1	EA	1167.09	1167.09
1000000492	PM OF GEAR BOX 1600 KW	1	EA	3112.24	3112.24
1000000493	PM OF GEAR BOX 1600 KW-ID/FD FAN	2	EA	1556.12	3112.24
1000000494	PM OF GEAR BOX 204 KW	6	EA	3112.24	18673.44
1000000495	PM OF GEAR BOX 278 KW	9	EA	3890.30	35012.70
1000000496	PM OF VERT SUBMERS PUMP UPTO 10 KW	5	EA	1414.46	7072.30
1000000497	PM OF VERT SUBMERS PUMP >10 TO 20 KW	5	EA	1414.46	7072.30

1000000498	PM OF VERT SUBMERS PUMP >20 TO 45 KW	5	EA	2121.69	10608.45
1000000499	PM OF VERT SUBMERS PUMP >45 TO 90 KW	2	EA	2828.92	5657.84
1000000500	PM OF VERT SUBMERS PUMP >90 TO 160 KW	2	EA	2828.92	5657.84
1000000501	PM OF RECIP COMPR UPTO 45 KW	2	EA	2228.42	4456.84
1000000502	PM OF RECIP COMPR UPTO >45 TO 110KW	1	EA	4456.84	4456.84
1000000503	PM OF RECIP COMPR >110.KW TO 460KW	1	EA	6685.26	6685.26
1000000504	PM OF CENTR COMPR 540 TO 700 KW	3	EA	6685.26	20055.78
1000000505	P.M OF SCREW COMP 42 KW	1	EA	7035.37	7035.37
1000000506	P.M OF SCREW COMP 229 KW	2	EA	14070.74	28141.48
1000000507	PM OF EXPANSION TURBINE.	1	EA	4885.76	4885.76
1000000508	PM OF EOT	10	EA	5844.36	58443.60
1000000509	DUPLG & CUPLG UPTO 5 KW	47	EA	778.04	36567.88
1000000510	DUPLG & CUPLG >5 TO 18.5KW	38	EA	778.04	29565.52
1000000511	DUPLG & CUPLG >18.5 TO 55KW	38	EA	778.04	29565.52
1000000512	DUPLG & CUPLG >55 TO 110KW	23	EA	1173.08	26980.84
1000000513	DUPLG & CUPLG >110 TO 220KW	18	EA	2354.12	42374.16
1000000514	DUPLG & CUPLG >220 TO 550 KW	4	EA	3303.72	13214.88
1000000515	DUPLG & CUPLG >550 TO 1100 KW	12	EA	3303.72	39644.64
1000000516	DUPLG & CUPLG >1100 TO 1800 KW	8	EA	4596.48	36771.84
1000000517	DUPLG & CUPLG >1800 TO 3000 KW	8	EA	4596.48	36771.84
1000000518	COLD ALIGN UPTO 5 KW	47	EA	3539.12	166338.64
1000000519	COLD ALIGN >5 TO 18.5KW	38	EA	3539.12	134486.56
1000000520	COLD ALIGN >18.5 TO 55KW	38	EA	3539.12	134486.56
1000000521	COLD ALIGN >55 TO 110KW	23	EA	4951.60	113886.80
1000000522	COLD ALIGN >110 TO 220KW	18	EA	9903.20	178257.60
1000000523	COLD ALIGN >220 TO 550 KW	4	EA	13885.20	55540.80
1000000524	COLD ALIGN >550 TO 1100 KW	12	EA	13885.20	166622.40
1000000525	COLD ALIGN >1100 TO 1800 KW	8	EA	14854.76	118838.08
1000000526	COLD ALIGN >1800 TO 3000 KW	8	EA	14854.76	118838.08
1000000527	CUPLG HUB REM (DVR/DVN) UPTO 5 KW	5	EA	5306.72	26533.60
1000000528	CUPLG HUB REM (DVR/DVN) >5 TO 18.5KW	5	EA	5306.72	26533.60
1000000529	CUPLG HUB REM (DVR/DVN) >18.5 TO 55KW	5	EA	5306.72	26533.60
1000000530	CUPLG HUB REM (DVR/DVN) >55 TO 110KW	2	EA	7074.28	14148.56
1000000531	CUPLG HUB REM (DVR/DVN) >110 TO 220KW	2	EA	8841.84	17683.68
1000000532	CUPLG HUB REM (DVR/DVN) >220 TO 550 KW	2	EA	15477.20	30954.40
1000000533	CUPLG HUB REM (DVR/DVN) >550 TO 1100 KW	1	EA	18569.48	18569.48
1000000534	CUPLG HUB REM (DVR/DVN) >1100 TO 1800 KW	1	EA	18569.48	18569.48
1000000535	GLAND & PKNG >5 TO 18.5KW	10	EA	1153.12	11531.20
1000000536	GLAND & PKNG >18.5 TO 55KW	10	EA	1153.12	11531.20
1000000537	GLAND & PKNG >55 TO 110KW	10	EA	1548.12	15481.20
1000000538	GLAND & PKNG >110 TO 220KW	5	EA	2214.44	11072.20
1000000539	GLAND & PKNG >220 TO 550 KW	5	EA	4245.36	21226.80

1000000540	GLAND & PKNG >550 TO 1100 KW	2	EA	4245.36	8490.72
1000000541	GLAND & PKNG >1100 TO 1800 KW	2	EA	5095.24	10190.48
1000000542	PULLEY REM DRV/DRVN >5 TO 18.5KW	2	EA	4951.60	9903.20
1000000543	PULLEY REM DRV/DRVN >18.5 TO 55KW	2	EA	7074.28	14148.56
1000000544	PULLEY REM DRV/DRVN >55 TO 110KW	2	EA	8841.84	17683.68
1000000545	PULLEY REM DRV/DRVN >110 TO 220KW	1	EA	15477.20	15477.20
1000000546	BELT REPL UPTO 18.5KW	5	EA	3539.12	17695.60
1000000547	BELT REPL >18.5 TO 55KW	5	EA	5306.72	26533.60
1000000548	BELT REPL >55 TO 110KW	2	EA	7074.28	14148.56
1000000549	LFTG&SFTG OF DVR/DRVN >5 TO 18.5KW	20	EA	4245.36	84907.20
1000000550	LFTG&SFTG OF DVR/DRVN >18.5 TO 55KW	15	EA	5306.72	79600.80
1000000551	LFTG&SFTG OF DVR/DRVN >55 TO 110KW	10	EA	5306.72	53067.20
1000000552	LFTG&SFTG OF DVR/DRVN >110 TO 220KW	4	EA	6368.04	25472.16
1000000553	LFTG&SFTG OF DVR/DRVN >220 TO 550 KW	4	EA	7780.52	31122.08
1000000554	LFTG&SFTG OF DVR/DRVN >550 TO 1100 KW	1	EA	7780.52	7780.52
1000000555	LFTG&SFTG OF DVR/DRVN >1100 TO 1800 KW	1	EA	9903.20	9903.20
1000000556	LFTG&SFTG OF DVR/DRVN >1800 TO 3000 KW	1	EA	9903.20	9903.20
1000000557	CASING GSKT REPL SINGLE STG >5 TO 18.5KW	1	EA	39792.28	39792.28
1000000558	CASING GSKT REPL SINGLE STG >18.5 TO 55K	1	EA	39792.28	39792.28
1000000559	CASING GSKT REPL SINGLE STG >55 TO 110KW	1	EA	39792.28	39792.28
1000000560	CASING GSKT REPL SINGLE STG >110 TO 220K	1	EA	60133.28	60133.28
1000000561	M/SEAL REPL SINGLE STG >5 TO 18.5KW	40	EA	16977.44	679097.60
1000000562	M/SEAL REPL SINGLE STG >18.5 TO 55KW	40	EA	16977.44	679097.60
1000000563	M/SEAL REPL SINGLE STG >55 TO 110KW	30	EA	31836.20	955086.00
1000000564	M/SEAL REPL SINGLE STG >110 TO 220KW	10	EA	40322.96	403229.60
1000000565	O/H SNGL STG CENT.PUMP >5 TO 18.5KW	5	EA	24761.96	123809.80
1000000566	O/H SNGL STG CENT.PUMP >18.5 TO 55KW	10	EA	24761.96	247619.60
1000000567	O/H SNGL STG CENT.PUMP >55 TO 110KW	5	EA	35371.36	176856.80
1000000568	O/H SNGL STG CENT.PUMP >110 TO 220KW	2	EA	49519.88	99039.76
1000000569	DE/NDE BRG REPL MULTI STG >5 TO 18.5KW	10	EA	5657.84	56578.40
1000000570	DE/NDE BRG REPL MULTI STG >18.5 TO 55KW	20	EA	8490.72	169814.40
1000000571	DE/NDE BRG REPL MULTI STG >55 TO 110KW	10	EA	8490.72	84907.20
1000000572	DE/NDE BRG REPL MULTI STG >110 TO 220KW	5	EA	11319.64	56598.20
1000000573	DE/NDE BRG REPL MULTI STG >220 TO 550 KW	4	EA	16977.44	67909.76
1000000574	DE/NDE BRG REPL MULTI STG >550 TO 1100KW	4	EA	16977.44	67909.76

1000000575	DE/NDE BRG REPL MULTI STG >1100 TO 1800	2	EA	22639.28	45278.56
1000000576	DE/NDE BRG REPL MULTI STG>1800 TO 3000 K	2	EA	22639.28	45278.56
1000000577	DE/NDE M/SEAL REPL MLT STG >5 TO 18.5KW	10	EA	9607.92	96079.20
1000000578	DE/NDE M/SEAL REPL MLT STG >18.5 TO 55KW	10	EA	9607.92	96079.20
1000000579	DE/NDE M/SEAL REPL MLT STG >55 TO 110KW	15	EA	14148.56	212228.40
1000000580	DE/NDE M/SEAL REPL MLT STG >110 TO 220KW	5	EA	28297.08	141485.40
1000000581	DE/NDE M/SEAL REPL MLT STG >220 TO 550 KW	2	EA	35371.36	70742.72
1000000582	DE/NDE M/SEAL REPL MLT STG>550 TO 1100KW	4	EA	35371.36	141485.44
1000000583	DE/NDE M/SEAL REPL MLT STG >1100 TO 1800	4	EA	41739.40	166957.60
1000000584	DE/NDE M/SEAL REPL MLT STG>1800TO3000 KW	4	EA	41739.40	166957.60
1000000585	O/H OF CP MLT STG(H) >18.5 TO 55KW	1	EA	35371.36	35371.36
1000000586	O/H OF CP MLT STG(H) >55 TO 110KW	1	EA	53059.04	53059.04
1000000587	O/H OF CP MLT STG(H) >110 TO 220KW	1	EA	84017.44	84017.44
1000000588	O/H OF CP MLT STG(H) >220 TO 550 KW	1	EA	91969.52	91969.52
1000000589	O/H OF CP MLT STG(H) >550 TO 1100 KW	1	EA	91969.52	91969.52
1000000590	O/H OF CP MLT STG(H) >1100 TO 1800 KW	1	EA	102578.92	102578.92
1000000591	M/SEAL REPL OF SNGL STG(V)>5 TO 18.5KW	3	EA	12967.52	38902.56
1000000592	M/SEAL REPL OF SNGL STG(V) >18.5 TO 55KW	5	EA	19100.12	95500.60
1000000593	M/SEAL REPL OF SNGL STG(V) >55 TO 110KW	2	EA	19100.12	38200.24
1000000594	BRG REPL SNGL STG(V)>5 TO 18.5KW	6	EA	8841.84	53051.04
1000000595	BRG REPL SNGL STG(V) >18.5 TO 55KW	10	EA	13442.32	134423.20
1000000596	BRG REPL SNGL STG(V) >55 TO 110KW	2	EA	13442.32	26884.64
1000000597	O/H OF SNGL STG(V)>5 TO 18.5KW	2	EA	17687.68	35375.36
1000000598	O/H OF SNGL STG(V) >18.5 TO 55KW	2	EA	27590.84	55181.68
1000000599	O/H OF SNGL STG(V) >55 TO 110KW	2	EA	27590.84	55181.68
1000000603	M/SEAL REPL MLT STG(V)>5 TO 18.5KW	2	EA	22108.60	44217.20
1000000604	M/SEAL REPL MLT STG(V) >18.5 TO 55KW	6	EA	30950.44	185702.64
1000000605	M/SEAL REPL MLT STG(V) >55 TO 110KW	2	EA	30950.44	61900.88
1000000606	O/H OF MLT STG(V)>5 TO 18.5KW	1	EA	53059.04	53059.04
1000000607	O/H OF MLT STG(V) >18.5 TO 55KW	2	EA	68093.36	136186.72
1000000608	O/H OF MLT STG(V) >55 TO 110KW	1	EA	68093.36	68093.36
1000000609	SEAL LEAK ATTENDING SUNDYNE 55 KW	8	EA	30719.00	245752.00

1000000610	O/H OF SUNDYNE PUMP 55 KW	2	EA	61781.16	123562.32
1000000611	CVR GSKT REPL TRI SCREW UPTO 5.5 KW	1	EA	8351.08	8351.08
1000000612	CVR GSKT REPL TRI SCREW >5.5 TO 18.5KW	1	EA	8351.08	8351.08
1000000613	CVR GSKT REPL TRI SCREW >18.5 TO 55KW	1	EA	10617.40	10617.40
1000000614	CVR GSKT REPL TRI SCREW >55 TO 90KW	1	EA	10617.40	10617.40
1000000615	DE BRG REPL TRI SCREW UPTO 5.5 KW	10	EA	12740.08	127400.80
1000000616	DE BRG REPL TRI SCREW >5.5 TO 18.5KW	2	EA	12740.08	25480.16
1000000617	DE BRG REPL TRI SCREW >18.5 TO 55KW	2	EA	18401.88	36803.76
1000000618	DE BRG REPL TRI SCREW >55 TO 90KW	2	EA	18401.88	36803.76
1000000619	NDE BRG REPL TRI SCREW UPTO 5.5 KW	10	EA	12740.08	127400.80
1000000620	NDE BRG REPL TRI SCREW >5.5 TO 18.5KW	2	EA	12740.08	25480.16
1000000621	NDE BRG REPL TRI SCREW >18.5 TO 55KW	2	EA	18401.88	36803.76
1000000622	NDE BRG REPL TRI SCREW >55 TO 90KW	2	EA	18401.88	36803.76
1000000623	M/SEAL REPL TRI SCREW UPTO 5.5 KW	5	EA	12033.84	60169.20
1000000624	M/SEAL REPL TRI SCREW >5.5 TO 18.5KW	2	EA	12033.84	24067.68
1000000625	M/SEAL REPL TRI SCREW >18.5 TO 55KW	2	EA	18198.40	36396.80
1000000626	M/SEAL REPL TRI SCREW >55 TO 90KW	2	EA	18198.40	36396.80
1000000627	O/H OF TRI SCREW UPTO 5.5 KW	2	EA	23357.48	46714.96
1000000628	O/H OF TRI SCREW >5.5 TO 18.5KW	1	EA	23357.48	23357.48
1000000629	O/H OF TRI SCREW >18.5 TO 55KW	1	EA	35219.72	35219.72
1000000630	O/H OF TRI SCREW >55 TO 90KW	1	EA	35219.72	35219.72
1000000631	BRG/OILSEAL REPL EX-GEAR PUMP UPTO 5 KW	1	EA	6451.84	6451.84
1000000632	BRG/OILSEAL REPL EX-GEAR PUMP>5 TO18.5KW	1	EA	6451.84	6451.84
1000000633	O/H EX-GEAR PUMP UPTO 5 KW	1	EA	10238.36	10238.36
1000000634	O/H EX-GEAR PUMP >5 TO 18.5KW	1	EA	10238.36	10238.36
1000000635	SUC/DIS VLV JOB DIAPH PUMP UPTO 5.5 KW	10	EA	5306.72	53067.20
1000000636	DIAPH REPL OF DIAPH PUMP UPTO 5.5 KW	20	EA	20949.52	418990.40
1000000637	O/H OF DIAPH PUMP UPTO 5.5 KW	5	EA	26625.28	133126.40
1000000638	SUC/DIS VLV REPL PLNGR PUMP 7.5 KW	4	EA	5306.72	21226.88
1000000639	SUC/DIS VLV REPL PLNGR PUMP 18.5 KW	4	EA	5306.72	21226.88
1000000640	SUC/DIS VLV REPL PLNGR PUMP 110 KW	3	EA	10613.40	31840.20
1000000641	CYL/PLNGR ASSY JOB PLNGR PUMP 7.5 KW	2	EA	29713.52	59427.04

1000000642	CYL/PLNGR ASSY JOB PLNGR PUMP 18.5 KW	2	EA	29713.5 2	59427.04
1000000643	CYL/PLNGR ASSY JOB PLNGR PUMP 110 KW	1	EA	33958.8 8	33958.88
1000000644	O/H OF FLUID END PLNGR PUMP 7.5 KW	2	EA	31836.2 0	63672.40
1000000645	O/H OF FLUID END PLNGR PUMP 18.5 KW	2	EA	35371.3 6	70742.72
1000000646	O/H OF FLUID END PLNGR PUMP 110 KW	2	EA	38910.4 8	77820.96
1000000647	O/H OF POWER END PLNGR PUMP 7.5 KW	1	EA	31836.2 0	31836.20
1000000648	O/H OF POWER END PLNGR PUMP 18.5 KW	1	EA	35371.3 6	35371.36
1000000649	O/H OF POWER END PLNGR PUMP 110 KW	1	EA	38910.4 8	38910.48
1000000650	BRG REPL FANS/BLOWERS UPTO 5 KW	5	EA	10661.2 8	53306.40
1000000651	BRG REPL FANS/BLOWERS >5 TO 18.5 KW	5	EA	10661.2 8	53306.40
1000000652	BRG REPL FANS/BLOWERS >18.5 TO 55 KW	5	EA	15987.9 2	79939.60
1000000653	BRG REPL FANS/BLOWERS >55 TO 110 KW	5	EA	15987.9 2	79939.60
1000000654	BRG REPL FANS/BLOWERS >1100 TO 1800 KW	4	EA	37035.2 0	148140.80
1000000655	O/H OF FANS/BLOWERS UPTO 5 KW	1	EA	26625.2 8	26625.28
1000000656	O/H OF FANS/BLOWERS >5 TO 18.5 KW	1	EA	26625.2 8	26625.28
1000000657	O/H OF FANS/BLOWERS >18.5 TO 55 KW	1	EA	39501.0 0	39501.00
1000000658	O/H OF FANS/BLOWERS >55 TO 110 KW	1	EA	39501.0 0	39501.00
1000000659	O/H OF FANS/BLOWERS >1100 TO 1800 KW	1	EA	79006.0 0	79006.00
1000000660	DAMP ADJMT FANS/BLOWERS UPTO 5 KW	1	EA	3539.12	3539.12
1000000661	DAMP ADJMT FANS/BLOWERS >5 TO 18.5 KW	1	EA	3539.12	3539.12
1000000662	DAMP ADJMT FANS/BLOWERS >18.5 TO 55 KW	1	EA	4281.28	4281.28
1000000663	DAMP ADJMT FANS/BLOWERS >55 TO 110 KW	1	EA	4281.28	4281.28
1000000664	DAMP ADJMT FANS/BLOWERS >1100 TO 1800KW	1	EA	6583.52	6583.52
1000000665	BLADE ANGLE CHNG FIN FAN UPTO 30 KW	2	EA	3894.24	7788.48
1000000666	BLADE/HUB REPL FIN FAN UPTO 30 KW	2	EA	4955.60	9911.20
1000000667	O/H OF FIN FAN UPTO 30 KW	1	EA	21945.0 0	21945.00
1000000668	G.B OIL SEAL REPL UPTO 5 KW	5	EA	15477.2 0	77386.00
1000000669	G.B OIL SEAL REPL >5 TO 18.5KW	5	EA	15477.2 0	77386.00
1000000670	G.B OIL SEAL REPL >18.5 TO 55KW	2	EA	21222.8 0	42445.60
1000000671	G.B OIL SEAL REPL >55 TO 90KW	2	EA	21222.8 0	42445.60
1000000672	G.B OIL SEAL REPL >200 TO 300 KW	2	EA	26529.5 2	53059.04
1000000673	G.B OIL SEAL REPL >1200 TO 1850 KW	1	EA	70742.7 2	70742.72

1000000674	G.B OIL SEAL REPL ABOVE 1850 KW	1	EA	88428.4 0	88428.40
1000000675	G.B BRG REPL UPTO 5 KW	5	EA	22108.6 0	110543.00
1000000676	G.B BRG REPL >5 TO 18.5KW	5	EA	22108.6 0	110543.00
1000000677	G.B BRG REPL >18.5 TO 55KW	2	EA	31836.2 0	63672.40
1000000678	G.B BRG REPL >55 TO 90KW	2	EA	31836.2 0	63672.40
1000000679	G.B BRG REPL REPL >200 TO 300 KW	1	EA	42445.6 4	42445.64
1000000680	G.B BRG REPL REPL >1200 TO 1850 KW	1	EA	63668.4 4	63668.44
1000000681	G.B BRG REPL REPL ABOVE 1850 KW	1	EA	79585.5 5	79585.55
1000000682	G.B BABBIT BRG REPL >200 TO 300 KW	1	EA	31836.2 0	31836.20
1000000683	G.B BABBIT BRG REPL >1200 TO 1850 KW	1	EA	42445.6 4	42445.64
1000000684	G.B BABBIT BRG REPL ABOVE 1850 KW	1	EA	56594.1 6	56594.16
1000000685	O/H OF G.B. UPTO 5 KW	1	EA	50852.5 6	50852.56
1000000686	O/H OF G.B. >5 TO 18.5KW	1	EA	50852.5 6	50852.56
1000000687	O/H OF G.B. >18.5 TO 55KW	1	EA	68975.1 2	68975.12
1000000688	O/H OF G.B. >55 TO 90KW	1	EA	68975.1 2	68975.12
1000000689	O/H OF G.B. >200 TO 300 KW	1	EA	73511.7 6	73511.76
1000000690	O/H OF G.B. >1200 TO 1850 KW	1	EA	78758.6 0	78758.60
1000000691	O/H OF G.B. ABOVE 1850 KW	1	EA	98448.2 5	98448.25
1000000692	REPL OF G.B. UPTO 5 KW	1	EA	8841.84	8841.84
1000000693	REPL OF G.B. >5 TO 18.5KW	1	EA	8841.84	8841.84
1000000694	REPL OF G.B. >18.5 TO 55KW	1	EA	11056.2 8	11056.28
1000000695	REPL OF G.B. >55 TO 90KW	1	EA	11056.2 8	11056.28
1000000696	REPL OF G.B. >200 TO 300 KW	1	EA	13262.7 6	13262.76
1000000697	REPL OF G.B. >1200 TO 1850 KW	1	EA	21222.8 0	21222.80
1000000698	REPL OF G.B. ABOVE 1850 KW	1	EA	26528.5 0	26528.50
1000000699	TMNG GEAR REPL LOBE BLWR UPTO 7.5 KW	1	EA	17324.6 0	17324.60
1000000700	TMNG GEAR REPL LOBE BLWR>7.5 TO 22.5 KW	1	EA	17324.6 0	17324.60
1000000701	TMNG GEAR REPL LOBE BLWR>22.5 TO 45 KW	1	EA	23106.0 8	23106.08
1000000702	TMNG GEAR REPL LOBE BLWR>45 TO 100 KW	1	EA	23106.0 8	23106.08
1000000703	TMNG GEAR REPL LOBE BLWR>100 TO 290 KW	1	EA	35371.3 6	35371.36
1000000704	NDE BRG/SEAL REPL LOBE BLWR UPTO 7.5 KW	2	EA	15748.5 2	31497.04
1000000705	NDE BRG/SEAL REPL LOBE BLWR>7.5 TO 22.5K	2	EA	15748.5 2	31497.04

1000000706	NDE BRG/SEAL REPL LOBE BLWR>22.5 TO 45 K	2	EA	21003.36	42006.72
1000000707	NDE BRG/SEAL REPL LOBE BLWR>45 TO 100 KW	2	EA	21003.36	42006.72
1000000708	NDE BRG/SEAL REPL LOBE BLWR>100 TO 290KW	2	EA	31836.20	63672.40
1000000709	DE BRG/SEAL REPL LOBE BLWR UPTO 7.5 KW	2	EA	15916.12	31832.24
1000000710	DE BRG/SEAL REPL LOBE BLWR>7.5 TO 22.5 K	2	EA	15916.12	31832.24
1000000711	DE BRG/SEAL REPL LOBE BLWR>22.5 TO 45 KW	2	EA	26529.52	53059.04
1000000712	DE BRG/SEAL REPL LOBE BLWR>45 TO 100 KW	2	EA	26529.52	53059.04
1000000713	DE BRG/SEAL REPL LOBE BLWR>100 TO 290 KW	2	EA	39792.28	79584.56
1000000714	O/H OF LOBE BLWR UPTO 7.5 KW	1	EA	58716.84	58716.84
1000000715	O/H OF LOBE BLWR>7.5 TO 22.5 KW	1	EA	58716.84	58716.84
1000000716	O/H OF LOBE BLWR>22.5 TO 45 KW	1	EA	74281.84	74281.84
1000000717	O/H OF LOBE BLWR>45 KW TO 100 KW	1	EA	74281.84	74281.84
1000000718	O/H OF LOBE BLWR>100 TO 290 KW	1	EA	107885.60	107885.60
1000000719	O/H OF AGITATORS UPTO 5 KW	5	EA	54615.12	273075.60
1000000720	O/H OF AGITATORS >5 KW TO 18.5 KW	2	EA	54615.12	109230.24
1000000721	CPLG GRD RMVL RECPCOMP UPTO 45 KW	2	EA	2653.36	5306.72
1000000722	CPLG GRD RMVL RECPCOMP >45 TO 110KW	2	EA	2653.36	5306.72
1000000723	CPLG GRD RMVL RECPCOMP >110 TO 460KW	2	EA	3539.12	7078.24
1000000724	UNLODR REPL RECPCOMP >110 TO 460KW	8	EA	2828.92	22631.36
1000000725	SUC/DIS VLV REPL RECPCOMP UPTO 45 KW	2	EA	2094.76	4189.52
1000000726	SUC/DIS VLV REPL RECPCOMP >45 TO 110KW	2	EA	3982.04	7964.08
1000000727	SUC/DIS VLV REPL RECPCOMP >110 TO 460KW	2	EA	5306.72	10613.44
1000000728	VLV RECOND RECPCOMP UPTO 45 KW	2	EA	3539.12	7078.24
1000000729	VLV RECOND RECPCOMP >45 TO 110KW	2	EA	4420.92	8841.84
1000000730	VLV RECOND RECPCOMP >110 TO 460KW	2	EA	5306.72	10613.44
1000000731	PSTN ASSY JOB RECPCOMP UPTO 45 KW	1	EA	11084.24	11084.24
1000000732	PSTN ASSY JOB RECPCOMP >45 TO 110KW	1	EA	11084.24	11084.24
1000000733	PSTN ASSY JOB RECPCOMP >110 TO 460KW	1	EA	16977.44	16977.44
1000000734	CYLND MAINT RECPCOMP UPTO 45 KW	1	EA	11319.64	11319.64
1000000735	CYLND MAINT RECPCOMP >45 TO 110KW	1	EA	16977.44	16977.44
1000000736	CYLND MAINT RECPCOMP >110 TO 460KW	1	EA	24761.96	24761.96
1000000737	CRANKCASE JOB RECPCOMP UPTO 45 KW	1	EA	9903.20	9903.20
1000000738	CRANKCASE JOB RECPCOMP >45 TO 110KW	1	EA	9903.20	9903.20



1000000739	CRANKCASE JOB RECPCOMP >110 TO 460KW	1	EA	11319.64	11319.64
1000000740	MAIN BRG REPL RECPCOMP UPTO 45 KW	2	EA	9903.20	19806.40
1000000741	MAIN BRG REPL RECPCOMP >45 TO 110KW	2	EA	9903.20	19806.40
1000000742	MAIN BRG REPL RECPCOMP >110 TO 460KW	2	EA	11319.64	22639.28
1000000743	SMALL END BRG RECPCOMP UPTO 45 KW	1	EA	9903.20	9903.20
1000000744	SMALL END BRG RECPCOMP >45 TO 110KW	1	EA	9903.20	9903.20
1000000745	SMALL END BRG RECPCOMP >110 TO 460KW	1	EA	11319.64	11319.64
1000000746	BIG END BRG RECPCOMP UPTO 45 KW	1	EA	9903.20	9903.20
1000000747	BIG END BRG RECPCOMP >45 TO 110KW	1	EA	9903.20	9903.20
1000000748	BIG END BRG RECPCOMP >110 TO 460KW	1	EA	11319.64	11319.64
1000000749	CNT ROD RECPCOMP UPTO 45 KW	1	EA	9903.20	9903.20
1000000750	CNT ROD BRG RECPCOMP >45 TO 110KW	1	EA	9903.20	9903.20
1000000751	CNT ROD BRG RECPCOMP >110 TO 460KW	1	EA	11319.64	11319.64
1000000752	CRS HED ASY RECPCOMP UPTO 45 KW	1	EA	9903.20	9903.20
1000000753	CRS HED ASY RECPCOMP >45 TO 110KW	1	EA	9903.20	9903.20
1000000754	CRS HED ASY RECPCOMP >110 TO 460KW	1	EA	11319.64	11319.64
1000000755	DE BRG REPL CENT COMP 540 KW	2	EA	28297.08	56594.16
1000000756	DE BRG REPL CENT COMP 750 KW	2	EA	42445.64	84891.28
1000000757	NDE BRG REPL CENT COMP 540 KW	1	EA	28297.08	28297.08
1000000758	NDE BRG REPL CENT COMP 750 KW	1	EA	42445.64	42445.64
1000000759	GOVR END BRG REPL UPTO 30 KW	1	EA	35371.36	35371.36
1000000760	GOVR END BRG REPL >30 TO 90 KW	1	EA	35371.36	35371.36
1000000761	GOVR END BRG REPL >1200 TO 1850 KW	1	EA	70742.72	70742.72
1000000762	DE BRG REPL UPTO 30 KW	1	EA	28297.08	28297.08
1000000763	DE BRG REPL >30 TO 90 KW	1	EA	28297.08	28297.08
1000000764	DE BRG REPL >1200 TO 1850 KW	1	EA	56594.16	56594.16
1000000765	SHFT SEAL REPL ST UPTO 30 KW	1	EA	37577.84	37577.84
1000000766	SHFT SEAL REPL ST >30 TO 90 KW	1	EA	37577.84	37577.84
1000000767	SHFT SEAL REPL ST >1200 TO 1850 KW	1	EA	81356.12	81356.12
1000000768	TTV REPAIR STEAM TURB UPTO 30 KW	1	EA	4951.60	4951.60
1000000769	TTV REPAIR STEAM TURB >30 TO 90 KW	1	EA	4951.60	4951.60
1000000770	NDE BRG REPL MULTI STAG ST 1602 KW	1	EA	59255.48	59255.48
1000000771	DE BRG REPL MULTI STAG ST 1602 KW	1	EA	53330.36	53330.36
1000000772	REPLACEMENT GT INLET AIR FILTER	1	EA	69130.76	69130.76
1000000773	REPLACEMENT GT INLET AIR FILTER	1	EA	69130.76	69130.76
1000000774	REPLACEMENT PAC INLET AIR FILTER	1	EA	69130.76	69130.76

1000000775	LOAD GEAR & GENERATOR COUPLING	1	EA	20879.68	20879.68
1000000776	GAS TURBINE & LOAD GEAR COUPLING	1	EA	17404.40	17404.40
1000000777	ALMENT CHK BETWEEN GENRTR & GB	1	EA	2653.36	2653.36
1000000778	ALMT CHK RECTI BETWEEN GENRTR/GB	1	EA	15940.04	15940.04
1000000779	COMP REM&RE-FIXING OF NOISE HOOD	2	EA	750.12	1500.24
1000000780	REM&RE-FIXING OF NOISE HOOD PER PANNEL	10	EA	3395.48	33954.80
1000000781	SEAL POT FLUID TOP UP FOR MECHANICAL SEAL	100	EA	9.44	944.00
1000000782	HAND PUMP - MECH SEAL REPAIR	5	EA	710.24	3551.20
1000000783	DEWATERING PUMP	5	EA	16027.84	80139.20
1000002357	PUMP FREE ROTATION UPTO 100 KW	150	EA	300.00	45000.00
1000002358	PUMP FREE ROTATION 101-250 KW	100	EA	400.00	40000.00
1000002359	PUMP FREE ROTATION 251-750 KW	50	EA	500.00	25000.00
1000002360	PUMP FREE ROTATION ABOVE 750	25	EA	800.00	20000.00
1000002361	LUBE OIL/GREASE TOP-UP	500	EA	300.00	150000.00
1000001952	WLDG,ARC,ROOT TIG,CS,IBR,BW,ABV S80-160	150	ID	868.09	130213.50
1000001953	WLDG,ARC,AS,BW,UPTO SCH40	500	ID	729.20	364600.00
					34431216.09

Please find below the list of Units of Measurement (UOM) along with their descriptions:

EA: Each  
ID: Inch Dia  
INM: Inch Meter  
KG: Kilogram  
M: Meter  
M2: Square Meter  
M3: Cubic Meter  
MT: Metric Ton  
NO: Number  
TON: Ton  
LS: Lump Sum  
MDY: Man Days

**Item-wise, detailed descriptions related to ARC for mechanical maintenance.**

Please find below the list of units of measurement (UOM) along with their descriptions:

EA: EACH  
ID: INCH DIA  
INM: INCH METER  
KG: KILOGRAM  
M: METER  
M2: SQUARE METER  
M3: CUBIC METER  
MT: METRIC TON  
NO: NUMBER  
TON: TON  
LS: LUMP SUM  
MDY: MAN DAYS

PIPING FABRICATION AND WELDING FOR BW JOINTS:

SL NO	SHORT TEXT		LONG TEXT	UNIT	QTY
1	WLDG,ARC,CS,GI,BW,UPTO SCH-40	29	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR CARBON STEEL/ G.I. PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UPTO SCH 40	ID	500
2	WLDG,ARC,CS,GI,BW,ABV SCH 40 UPTO SCH-80	40	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR CARBON STEEL/ G.I. PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH40 UPTO SCH 80	ID	250
3	WLDG,ARC,CS,GI,BW,ABV SCH 80 UPTO SCH160	40	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR CARBON STEEL/ G.I. PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH80 UPTO SCH 160	ID	150
4	WLDG,ARC,ROOT TIG,CS,GI,BW,UPTO SCH40	37	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING FOR CARBON STEEL / GI PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UP TO SCH 40	ID	500
5	WLDG,ARC,ROOT TIG,CS,BW,ABV SCH40-SCH80	39	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING FOR CARBON STEEL / GI PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH 40 UPTO SCH 80	ID	250
6	WLDG,ARC,ROOT TIG,CS,BW,ABV SCH80-SCH160	40	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING FOR CARBON STEEL / GI PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH 80 UPTO SCH 160	ID	150
7	WLDG,ARC,ROOT TIG,CS,IBR,BW,UPTO SCH40	38	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING BUT BY IBR WELDER FOR CARBON STEEL / GI PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UPTO SCH 40	ID	500
8	WLDG,ARC,ROOT TIG,CS,IBR,BW,ABV SCH40-80	40	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING BUT BY IBR WELDER FOR CARBON STEEL / GI PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH40 UPTO SCH 80	ID	250
9	WLDG,ARC,ROOT TIG,CS,IBR,BW,ABV SCH80-160	41	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING BUT BY IBR WELDER FOR CARBON STEEL / GI PIPE MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH80 UPTO SCH 160	ID	150
10	WLDG,ARC,AS,BW,UPTO SCH40	25	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPE AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UPTO SCH 40	ID	500
11	WLDG,ARC,AS,BW,ABV SCH40 UPTO SCH80	35	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPE AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH40 UPTO SCH 80	ID	250
12	WLDG,ARC,AS,BW,ABV SCH80 UPTO SCH160	36	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPE AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH80 UPTO SCH 160	ID	150
13	WLDG,ARC,ROOT TIG,AS,BW,UPTO SCH40	34	WELDING- MECHANICAL ITEMS BY ARC WELDING BUT ROOT RUN BY TIG WELDING FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING A CONSUMABLES UPTO SCH 40	ID	300
14	WLDG,ARC,ROOT TIG,AS,BW,ABV SCH40 UPTO SCH80	44	WELDING- MECHANICAL ITEMS BY ARC WELDING BUT ROOT RUN BY TIG WELDING FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING A CONSUMABLES ABOVE SCH40 UPTO SCH 80	ID	250
15	WLDG,ARC,ROOT TIG,AS,BW,ABV SCH80 UPTO SCH160	45	WELDING- MECHANICAL ITEMS BY ARC WELDING BUT ROOT RUN BY TIG WELDING FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING A CONSUMABLES ABOVE SCH80 UPTO SCH 160	ID	100
16	WLDG,ARC,ROOT TIG,AS,IBR,BW,UPTO SCH40	38	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING BUT BY IBR QUALIFIED WELDER FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UPTO SCH 40	ID	250
17	WLDG,ARC,ROOT TIG,AS,IBR,BW,ABV SCH40 UPTO SCH80	48	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING BUT BY IBR QUALIFIED WELDER FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH40 UPTO SCH 80	ID	150
18	WLDG,ARC,ROOT TIG,AS,IBR,BW,ABV SCH80 UPTO SCH160	49	WELDING- MECHANICAL ITEMS BY ARC WELDING AND ROOT RUN BY TIG WELDING BUT BY IBR QUALIFIED WELDER FOR ALLOY STEEL MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH80 UPTO SCH 160	ID	100
19	WLDG,ARC,SS,BW,UPTO SCH40	25	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR SS MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UPTO SCH 40	ID	500
20	WELD,ARC,SS,BW,ABV SCH40 UPTO SCH80	35	WELDING- MECHANICAL ITEMS BY ARC WELDING FOR SS MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH 40 AND UPTO SCH 80	ID	250
21	WELD,TIG,SS,BW, UPTO SCH40	26	WELDING- MECHANICAL ITEMS BY TIG WELDING FOR SS MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES UPTO SCH 40	ID	500
22	WLDG,TIG,SS,BW,ABV SCH40 UPTO SCH80	35	WELDING- MECHANICAL ITEMS BY TIG WELDING FOR SS MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH 40 UPTO SCH 80	ID	250
23	WELD,TIG SS,BW,ABV SCH80 UPTO SCH160	36	WELDING- MECHANICAL ITEMS BY TIG WELDING FOR SS MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AND WELDING OF PIPES AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO WORKSITE FOR ERECTION INCLUDING ALL CONSUMABLES ABOVE SCH 80 AND UPTO SCH 160	ID	100
PIPING FABRICATION AND WELDING FOR SW JOINTS:					
24	WLDG,ARC,STRAIGHT,MS	20	WELDING- MECHANICAL ITEMS JOB INCLUDES STRAIGHT WELDING OF PLATES USING APPROVED ELECTRODES AS PER SPECIFICATION, MILD STEEL	M	100
25	WLDG,ARC,STRAIGHT,SS	20	WELDING- MECHANICAL ITEMS JOB INCLUDES STRAIGHT WELDING OF PLATES USING APPROVED ELECTRODES AS PER SPECIFICATION STAINLESS STEEL	M	75
26	WLDG,ARC,STRAIGHT,AS	20	WELDING- MECHANICAL ITEMS JOB INCLUDES STRAIGHT WELDING OF PLATES USING APPROVED ELECTRODES AS PER SPECIFICATION ALLOY STEEL	M	25
PIPING FABRICATION AND WELDING FOR SW JOINTS:					

[illegible]

58	WLDG,TIG,CS,SW,6000#,>1"- 1- 1/2"	34	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION CARBON STEEL - SOCKET WELD - 6000 # SIZE ABOVE 1 INCH AND UPTO 1-1/2 INCH	NO	25
59	WLDG,TIG,AS,SW,3000#,UPTO 1/2"	30	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 3000 # SIZE ABOVE UPTO 1/2" INCH	NO	50
60	WLDG,TIG,AS,SW,3000#,3/4"	25	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 3000 # SIZE ABOVE 1/2 INCH AND UPTO 3/4 INCH	NO	50
61	WLDG,TIG,AS,SW,3000#,1"	23	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 3000 # SIZE ABOVE 3/4 INCH AND UPTO 1 INCH	NO	50
62	WLDG,TIG,AS,SW,3000#,>1"- 1- 1/2"	34	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 3000 # SIZE ABOVE 1 INCH AND UPTO 1-1/2 INCH	NO	25
63	WLDG,TIG,AS,SW,6000#,UPTO 1/2"	30	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 6000 # SIZE ABOVE UPTO 1/2" INCH	NO	25
64	WLDG,TIG,AS,SW,6000#,3/4"	25	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 6000 # SIZE ABOVE 1/2 INCH AND UPTO 3/4 INCH	NO	25
65	WLDG,TIG,AS,SW,6000#,1"	23	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 6000 # SIZE ABOVE 3/4 INCH AND UPTO 1 INCH	NO	25
66	WLDG,TIG,AS,SW,6000#,>1"- 1- 1/2"	34	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION ALLOY STEEL - SOCKET WELD - 6000 # SIZE ABOVE 1 INCH AND UPTO 1-1/2 INCH	NO	25
67	WLDG,TIG,SS,SW 3000#, UPTO 1/2"	31	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 3000 # SIZE UPTO 1/2 INCH	NO	100
68	WLDG,TIG,SS,SW,3000#,3/4"	25	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 3000 # SIZE ABOVE 1/2 INCH AND UPTO 3/4 INCH	NO	100
69	WLDG,TIG,SS,SW,3000#,1"	23	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 3000 # SIZE ABOVE 3/4 INCH AND UPTO 1 INCH	NO	75
70	WLDG,TIG,SS,SW,3000#,>1"- 1- 1/2"	34	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 3000 # SIZE ABOVE 1 INCH AND UPTO 1-1/2 INCH	NO	40
71	WLDG,TIG,SS,SW,6000#,UPTO 1/2"	30	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 6000 # SIZE UPTO 1/2 INCH	NO	30
72	WLDG,TIG,SS,SW,6000#,3/4"	25	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 6000 # SIZE ABOVE 1/2 INCH AND UPTO 3/4 INCH	NO	30
73	WLDG,TIG,SS,SW,6000#,1"	23	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 6000 # SIZE ABOVE 3/4 INCH AND UPTO 1 INCH	NO	25
74	WLDG,TIG,SS,SW,6000#,>1"- 1- 1/2"	34	WELDING- MECHANICAL ITEMS BY TIG WELD INCLUDING MARKING, CUTTING, EDGE PREPARATION, ALIGNMENT AS PER SPECIFICATIONS AND APPROVED ELECTRODES, TRANSPORTATION TO SITE FOR ERECTION SS -SOCKET WELD - 6000 # SIZE ABOVE 1 INCH AND UPTO 1-1/2 INCH	NO	20
FLANGES OPENING AND BOXUP JOBS:					
75	OP/BX,FLNG,150#,UP TO 2"	24	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF UPTO 2" DIA	NO	200
76	OP/BX,FLNG,150#,2"-4"	21	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 2" UPTO 4"	NO	100
77	OP/BX,FLNG,150#,4"-8"	21	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 4" UPTO 8"	NO	75
78	OP/BX,FLNG,150#,8"-12"	22	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 8" UPTO 12"	NO	25
79	OP/BX,FLNG,150#,12"-18"	23	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 12" UPTO 18"	NO	10
80	OP/BX,FLNG,150#,18"-24"	23	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 18" UPTO 24"	NO	5
81	OP/BX,FLNG,150#,24"-36"	23	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 24" UPTO 36"	NO	3
82	OP/BX,FLNG,150#,36"-54"	23	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES UPTO 150 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 36" UPTO 54"	NO	2
83	OP/BX,FLNG,150-300#,UP TO 2"	28	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF UPTO 2" DIA	NO	200
84	OP/BX,FLNG,150-300#,2"-4"	25	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 2" UPTO 4" DIA	NO	100
85	OP/BX,FLNG,150-300#,4"-8"	25	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 4" UPTO 8" DIA	NO	75
86	OP/BX,FLNG,150-300#,8"-12"	26	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 8" UPTO 12" DIA	NO	25
87	OP/BX,FLNG,150-300#,12"-18"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLNGS ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 12" UPTO 18" DIA	NO	10
88	OP/BX,FLNG,150-300#,18"-24"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 18" UPTO 24" DIA	NO	5
89	OP/BX,FLNG,150-300#,24"-36"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 24" UPTO 36" DIA	NO	3
90	OP/BX,FLNG,150-300#,36"-54"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 150 AND UPTO 300 LBS RATING MAKING GAP, FACE CLEANING, SEAT CLEANING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 36" UPTO 54" DIA	NO	2
91	OP/BX,FLNG,300-600#,UP TO 2"	28	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF UPTO 2" DIA	NO	150
92	OP/BX,FLNG,300-600#,2"-4"	25	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 2" UPTO 4" DIA	NO	75
93	OP/BX,FLNG,300-600#,4"-8"	25	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 4" UPTO 8" DIA	NO	50
94	OP/BX,FLNG,300-600#,8"-12"	26	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 8" UPTO 12" DIA	NO	20

95	OP/BX,FLNG,300-600#,12"-18"	26	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 12" UPTO 18" DIA	NO	10
96	OP/BX,FLNG,300-600#,18"-24"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 18" UPTO 24" DIA	NO	5
97	OP/BX,FLNG,300-600#,24"-36"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 24" UPTO 36" DIA	NO	3
98	OP/BX,FLNG,300-600#,36"-54"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 300 AND UPTO 600 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 36" UPTO 54" DIA	NO	2
99	OP/BX,FLNG,600-1500#,UP TO 2"	29	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF UPTO 2" DIA	NO	25
100	OP/BX,FLNG,600-1500#,2"-4"	26	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 2" UPTO 4" DIA	NO	25
101	OP/BX,FLNG,600-1500#,4"-8"	26	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 4" UPTO 8" DIA	NO	10
102	OP/BX,FLNG,600-1500#,8"-12"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 8" UPTO 12" DIA	NO	10
103	OP/BX,FLNG,600-1500#,12"-18"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 12" UPTO 18" DIA	NO	10
104	OP/BX,FLNG,600-1500#,18"-24"	28	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 18" UPTO 24" DIA	NO	5
105	OP/BX,FLNG,600-1500#,24"-36"	28	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 24" UPTO 36" DIA	NO	5
106	OP/BX,FLNG,600-1500#,36"-54"	28	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 600 AND UPTO 1500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (AS APPLICABLE) TO MAKE IT LEAK PROOF ABOVE 36" UPTO 54" DIA	NO	2
107	OP/BX,FLNG,1500-2500#,UP TO 2"	30	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF UPTO 2" DIA	NO	25
108	OP/BX,FLNG,1500-2500#,2"-4"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 2" UPTO 4" DIA	NO	25
109	OP/BX,FLNG,1500-2500#,4"-8"	27	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 4" UPTO 8" DIA	NO	10
110	OP/BX,FLNG,1500-2500#,8"-12"	28	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 8" UPTO 12" DIA	NO	10
111	OP/BX,FLNG,1500-2500#,12"-18"	29	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 12" UPTO 18" DIA	NO	10
112	OP/BX,FLNG,1500-2500#,18"-24"	29	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 18" UPTO 24" DIA	NO	5
113	OP/BX,FLNG,1500-2500#,24"-36"	29	OPENING AND BOXING UP- MECHANICAL ITEMS FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING MAKING GAP, FACE CLEANING, SEAT LAPPING AND GASKET REPLACEMENT (IF REQUIRED) TO MAKE IT LEAK PROOF ABOVE 24" UPTO 36" DIA	NO	2
VALVES OPENING AND BOXUP JOBS:					
114	OP/BX,VLV,150#,UP TO 2"	23	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/SAFETY/ CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) UPTO 2"DIA	NO	50
115	OP/BX,VLV,150#,2"-4"	20	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/SAFETY/ CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 2" UPTO 4" DIA	NO	50
116	OP/BX,VLV,150#,4"-8"	20	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/ SAFETY/ CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 4" UPTO 8" DIA	NO	50
117	OP/BX,VLV,150#,8"-12"	21	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/ PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 8"UPTO 12" DIA	NO	25
118	OP/BX,VLV,150#,12"-18"	22	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/ PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 12" UPTO 18" DIA	NO	20
119	OP/BX,VLV,150#,18"-24"	22	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/ PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 18" UPTO 24" DIA	NO	10
120	OP/BX,VLV,150#,24"-36"	22	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/ PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 24" UPTO 36" DIA	NO	5
121	OP/BX,VLV,150#,36"-54"	22	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/ PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) UPTO 150 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE IT LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 36" UPTO 54" DIA	NO	2
122	OP/BX,VLV,300#,UP TO 2"	23	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) ABOVE 150 AND UPTO 300 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) UPTO 2" DIA	NO	50
123	OP/BX,VLV,300#,2"-4"	20	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) ABOVE 150 AND UPTO 300 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 2" UPTO 4" DIA	NO	50

[illegible]



144	OP/BX,VLV,1500-2500#,4"-8"	26	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/SAFETY/CONTROL) ABOVE 1500 AND UPTO 2500 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 4" UPTO 8" DIA	NO	15
145	OP/BX,VLV,1500-2500#,8"-12"	27	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/SAFETY/ CONTROL) ABOVE 1500 AND UPTO 2500 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 8" UPTO 12" DIA	NO	10
146	OP/BX,VLV,1500-2500#,12"-18"	28	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/ SAFETY/CONTROL) ABOVE 1500 AND UPTO 2500 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 12" UPTO 18" DIA	NO	5
147	OP/BX,VLV,1500-2500#,18"-24"	28	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/ SAFETY/CONTROL) ABOVE 1500 AND UPTO 2500 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 18" UPTO 24" DIA	NO	5
148	OP/BX,VLV,1500-2500#,24"-36"	28	OPENING AND BOXING UP- MECHANICAL ITEMS VALVES (GATE/GLOBE/CHECK/PLUG/BALL/BUTTERFLY/ SAFETY/CONTROL) ABOVE 1500 AND UPTO 2500 LBS RATING REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP AND WORKSHOP TO SITE FOR REINSTALLATION AFTER FACE CLEANING/ SEAT LAPPING, GASKET REPLACEMENT AND TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 24" UPTO 36" DIA	NO	2
OPENING AND BOX UP OF LENS GASKET FLANGED CONTROL VALVES:					
149	OP/BX,LENS,CV,1500-2500#,UP TO 2"	33	OPENING AND BOXING UP- MECHANICAL ITEMS OF LENS GASKET FLANGED CONTROL VALVES ABOVE 1500 AND UPTO 2500 LBS RATING. REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP, AND FROM WORKSHOP TO SITE FOR REINSTALLATION ONLY AFTER LENS GASKET FACE CLEANING, LAPPING AND BLUE MATCHING WITH NEW GASKET, TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) UPTO 2" DIA	NO	15
150	OP/BX,LENS,CV,1500-2500#,2"-4"	30	OPENING AND BOXING UP- MECHANICAL ITEMS OF LENS GASKET FLANGED CONTROL VALVES ABOVE 1500 AND UPTO 2500 LBS RATING. REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP, AND FROM WORKSHOP TO SITE FOR REINSTALLATION ONLY AFTER LENS GASKET FACE CLEANING, LAPPING AND BLUE MATCHING WITH NEW GASKET, TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 2" UPTO 4" DIA	NO	15
151	OP/BX,LENS,CV,1500-2500#,4"-8"	30	OPENING AND BOXING UP- MECHANICAL ITEMS OF LENS GASKET FLANGED CONTROL VALVES ABOVE 1500 AND UPTO 2500 LBS RATING. REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP, AND FROM WORKSHOP TO SITE FOR REINSTALLATION ONLY AFTER LENS GASKET FACE CLEANING, LAPPING AND BLUE MATCHING WITH NEW GASKET, TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 4" UPTO 8" DIA	NO	15
152	OP/BX,LENS,CV,1500-2500#,8"-12"	31	OPENING AND BOXING UP- MECHANICAL ITEMS OF LENS GASKET FLANGED CONTROL VALVES ABOVE 1500 AND UPTO 2500 LBS RATING. REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP, AND FROM WORKSHOP TO SITE FOR REINSTALLATION ONLY AFTER LENS GASKET FACE CLEANING, LAPPING AND BLUE MATCHING WITH NEW GASKET, TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 8" UPTO 12" DIA	NO	10
153	OP/BX,LENS,CV,1500-2500#,12"-18"	32	OPENING AND BOXING UP- MECHANICAL ITEMS OF LENS GASKET FLANGED CONTROL VALVES ABOVE 1500 AND UPTO 2500 LBS RATING. REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP, AND FROM WORKSHOP TO SITE FOR REINSTALLATION ONLY AFTER LENS GASKET FACE CLEANING, LAPPING AND BLUE MATCHING WITH NEW GASKET, TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 12" UPTO 18" DIA	NO	5
154	OP/BX,LENS,CV,1500-2500#,18"-24"	32	OPENING AND BOXING UP- MECHANICAL ITEMS OF LENS GASKET FLANGED CONTROL VALVES ABOVE 1500 AND UPTO 2500 LBS RATING. REMOVAL, LOWERING ON GROUND FLOOR, SHIFTING FROM SITE TO WORKSHOP, AND FROM WORKSHOP TO SITE FOR REINSTALLATION ONLY AFTER LENS GASKET FACE CLEANING, LAPPING AND BLUE MATCHING WITH NEW GASKET, TIGHTENING THE FLANGE TO MAKE LEAK PROOF (40 % FOR OPENING AND 60% FOR BOX UP) ABOVE 18" UPTO 24" DIA	NO	2
GLAND PACKING REPLACEMENT:				NO	
155	SERV,VLV,GLND PACK, UPTO 2"	27	SERVICING- MECHANICAL ITEMS. ISOLATION VALVES OLD GLAND PACKING REMOVAL,CLEANING OF PACKING AREA AND REFILLING OF GLAND PACKING. LEAK PROOF TIGHTENING TO BE DONE. UPTO 2" VALVE IRRESPECTIVE OF PRESSURE RATING.	NO	100
156	SERV,VLV,GLND PACK, ABV 2"-UPTO 8"	34	SERVICING- MECHANICAL ITEMS. ISOLATION VALVES OLD GLAND PACKING REMOVAL,CLEANING OF PACKING AREA AND REFILLING OF GLAND PACKING. LEAK PROOF TIGHTENING TO BE DONE. ABOVE 2" UPTO 8" VALVE IRRESPECTIVE OF PRESSURE RATING.	NO	100
157	SERV,VLV,GLND PACK, ABV 8"-UPTO 16"	35	SERVICING- MECHANICAL ITEMS. ISOLATION VALVES OLD GLAND PACKING REMOVAL,CLEANING OF PACKING AREA AND REFILLING OF GLAND PACKING. LEAK PROOF TIGHTENING TO BE DONE. ABOVE 8" UPTO 16" VALVE IRRESPECTIVE OF PRESSURE RATING.	NO	50
158	SERV,VLV,GLND PACK, ABV 16"-UPTO 24"	36	SERVICING- MECHANICAL ITEMS. ISOLATION VALVES OLD GLAND PACKING REMOVAL,CLEANING OF PACKING AREA AND REFILLING OF GLAND PACKING. LEAK PROOF TIGHTENING TO BE DONE. ABOVE 16" UPTO 24" VALVE IRRESPECTIVE OF PRESSURE RATING.	NO	25
159	SERV,VLV,GLND PACK, ABV 24"-UPTO 36"	36	SERVICING- MECHANICAL ITEMS. ISOLATION VALVES OLD GLAND PACKING REMOVAL,CLEANING OF PACKING AREA AND REFILLING OF GLAND PACKING. LEAK PROOF TIGHTENING TO BE DONE. ABOVE 24" UPTO 36" VALVE IRRESPECTIVE OF PRESSURE RATING.	NO	10
STATIC EQUIPMENT END COVERS/MANHOLE OPENING AND BOXUP JOB:				NO	
160	OP/BX,END/MH CVR,150#,8"-12"	28	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL FROM 8" UPTO 12"	NO	15
161	OP/BX,END/MH CVR,150#,12"-18"	29	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL ABOVE 12" UPTO 18"	NO	10
162	OP/BX,END/MH CVR,150#,18"-24"	29	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL ABOVE 18" UPTO 24"	NO	10
163	OP/BX,END/MH CVR,150#,24"-36"	29	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL ABOVE 24" UPTO 36"	NO	10
164	OP/BX,END/MH CVR,150#,36"-50"	29	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL ABOVE 36" UPTO 50"	NO	5
165	OP/BX,END/MH CVR,150#,50"-75"	29	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL ABOVE 50" UPTO 75"	NO	5
166	OP/BX,END/MH CVR,150#,75"-100"	30	OPENING AND BOXING UP- MECHANICAL ITEMS END COVERS/MANHOLES OF EQUIPMENT AND HEAT EXCHANGERS UPTO 150 LBS RATING REMOVAL, PLACING ON WOODENPIECES AT NEARBY PLACES, FACE CLEANING, SEAT LAPPING, GASKET REPLACEMENT ETC. JOB ALSO INCLUDES REMOVAL AND REFIXING OF CONNECTING PIPING AND STRUCTURES TO FACILITATE REMOVAL ABOVE 75" UPTO 100"	NO	2

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248	OP/BX,BLND,SLIP PLT1500-2500#,DIA 8"-12"	40	OPENING AND BOXING UP- MECHANICAL ITEMS TO PROVIDE BLINDS (SLIP PLATES) & NORMALISE BEFORE PLANT START UP. SCOPE OF WORK SHALL INCLUDE OPENING OF THE FLANGE, PROVIDE GASKET (FLUID SIDE), SLIP PATE AND BOX UP BEFORE NORMALISE MAKE THE SEALING FACES CLEAN, AND BOX UP OF FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING SIZE ABOVE 8 INCH BUT UPTO 12 INCH	NO	10
249	OP/BX,BLND,SLIP PLT1500-2500#,DIA 12"-16"	41	OPENING AND BOXING UP- MECHANICAL ITEMS TO PROVIDE BLINDS (SLIP PLATES) & NORMALISE BEFORE PLANT START UP. SCOPE OF WORK SHALL INCLUDE OPENING OF THE FLANGE, PROVIDE GASKET (FLUID SIDE), SLIP PATE AND BOX UP BEFORE NORMALISE MAKE THE SEALING FACES CLEAN, AND BOX UP OF FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING SIZE ABOVE 12 INCH BUT UPTO 16 INCH	NO	10
250	OP/BX,BLND,SLIP PLT1500-2500#,DIA 16"-24"	41	OPENING AND BOXING UP- MECHANICAL ITEMS TO PROVIDE BLINDS (SLIP PLATES) & NORMALISE BEFORE PLANT START UP. SCOPE OF WORK SHALL INCLUDE OPENING OF THE FLANGE, PROVIDE GASKET (FLUID SIDE), SLIP PATE AND BOX UP BEFORE NORMALISE MAKE THE SEALING FACES CLEAN, AND BOX UP OF FLANGES ABOVE 1500 AND UPTO 2500 LBS RATING SIZE ABOVE 16 INCH BUT UPTO 24 INCH	NO	5
PIPES CUTTING AND DISPOSAL/SHIFTING TO STORE:					
251	DMTL,SCRAP PIPE,SCAFF,GI/CS/AS/SS	33	DISMANTLING JOB. PIPELINE CUTTING, THEN SHIFTING FROM PLANT SITE TO SCRAP YARD OR DESIGNATED AREA IN SITE AT ALL LEVELS, INCLUDING SCAFFOLDING ARRANGEMENT GI/CS/AS/SS.	TON	2
252	DMTL,SCRAP PIPE,GI/CS/AS/SS	27	DISMANTLING JOB. PIPELINE CUTTING, THEN SHIFTING FROM PLANT SITE TO SCRAP YARD OR DESIGNATED AREA IN SITE AT ALL LEVELS WITH OUT SCAFFOLDING.	TON	2
253	DMTL & RETURN,STORE,PIPE,SCAFF,GI/CS/AS/SS	42	DISMANTLING JOB PIPELINE GI/CS/SS/AS CUTTING, EDGE PREPARATION & SHIFTING PIPING & PIPE FITTINGS FROM PLANT SITE TO CENTRAL STORES OR DESIGNATED AREA. INCLUDING SCAFFOLDING ARRANGEMENT.	TON	2
254	DMTL & RETURN,STORE,PIPE,GI/CS/AS/SS	36	DISMANTLING JOB PIPELINE GI/CS/SS/AS CUTTING, EDGE PREPARATION & SHIFTING PIPING & PIPE FITTINGS FROM PLANT SITE TO CENTRAL STORES OR DESIGNATED AREA WITH OUT SCAFFOLDING.	TON	2
SCRAP STRUCTURE CUTTING AND DISPOSAL:					
255	DMTL,OLD STRUCTURE,SHIFT TO SCRAPYARD,SCAFF	43	DISMANTLING JOB OLD STRUCTURE GAS CUTTING AND SHIFTING TO SCRAP YARD / DIRECTED PLACE, INCLUDING SCAFFOLDING ARRANGEMENT	TON	5
256	DMTL,OLD STRUCTURE,SHIFT TO SCRAPYARD	37	DISMANTLING JOB OLD STRUCTURE GAS CUTTING AND SHIFTING TO SCRAP YARD / DIRECTED PLACE WITH OUT SCAFFOLDING.	TON	5
SCRAP CUTTING AND SHIFTING JOBS:					
257	SCRAP, CUTTING, SHIFTING, UPTO 2MT	34	SCRAP CUTTING UP TO 2 TON AT POSITION BY GAS CUTTING, GAUGING, MANUAL (HEXA), SHIFTING OF SCRAP AT PROPER LOCATION (LIKE SCRAP YARD OR LOCATION PROVIDED BY HURL). CONSUMABLE REQUIRED FOR EXECUTION OF THE JOB SHALL BE IN CONTRACTOR SCOPE.	TON	5
258	SCRAP, CUTTING, SHIFTING, >2MT	30	SCRAP CUTTING > 2 TON AT POSITION BY GAS CUTTING, GAUGING, MANUAL (HEXA), SHIFTING OF SCRAP AT PROPER LOCATION (LIKE SCRAP YARD OR LOCATION PROVIDED BY HURL). CONSUMABLE REQUIRED FOR EXECUTION OF THE JOB SHALL BE IN CONTRACTOR SCOPE.	TON	5
PIPING ERECTION JOBS OF SS GRADE:					
259	ERCT,PIPE,SS,UPTO SCH40,UPTO 2"	31	ERECTION- MECHANICAL ITEMS PIPELINE- SS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES,FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM UPTO 2" DIA	INM	500
260	ERCT,PIPE,SS,UPTO SCH 40, 2"-6"DIA	34	ERECTION- MECHANICAL ITEMS PIPELINE- SS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. JOB INCLUDES PAINTING ONE QUOTE OF RED OXIDE PRIMER 30 MICRONS THICK AFTER CLEANING. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 2" DIA UPTO 6"	INM	400
261	ERCT,PIPE, SS,UP TO SCH 40,6-10" DIA	36	ERECTION- MECHANICAL ITEMS PIPELINE- SS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. JOB INCLUDES PAINTING ONE QUOTE OF RED OXIDE PRIMER 30 MICRONS THICK AFTER CLEANING. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 6" DIA UPTO 10"	INM	150
262	ERCT,PIPE,SS, UP TO SCH 40, 10"-16"DIA	38	ERECTION- MECHANICAL ITEMS PIPELINE- SS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. JOB INCLUDES PAINTING ONE QUOTE OF RED OXIDE PRIMER 30 MICRONS THICK AFTER CLEANING. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 10" DIA UPTO 16"	INM	100
263	ERCT,PIPE,SS,UP TO SCH 40, 16"-24"DIA	37	ERECTION- MECHANICAL ITEMS PIPELINE- SS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. JOB INCLUDES PAINTING ONE QUOTE OF RED OXIDE PRIMER 30 MICRONS THICK AFTER CLEANING. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 16" DIA UPTO 24"	INM	50
264	ERCT,PIPE,SS,UP TO SCH 40 , 24"-36"DIA	38	ERECTION- MECHANICAL ITEMS PIPELINE- SS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. JOB INCLUDES PAINTING ONE QUOTE OF RED OXIDE PRIMER 30 MICRONS THICK AFTER CLEANING. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 24" DIA UPTO 36"	INM	50
265	ERCT,PIPE,SS,UP TO 2", ABV SCH 40-SCH 80	40	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM UPTO 2" DIA	INM	500
266	ERCT,PIPE,SS, ABV SCH 40-SCH 80, 2"-6"DIA	41	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 80 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 2" DIA UPTO 6"	INM	400
267	ERCT,PIPE, SS,ABV SCH 40-SCH 80, 6-10"	38	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC.ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 6" DIA UPTO 10"	INM	250
268	ERCT,PIPE,SS, ABV SCH 40-SCH 80, 10"-16"DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 10" DIA UPTO 16"	INM	100
269	ERCT,PIPE,SS, ABV SCH 40-SCH 80, 16"-24"DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 16" DIA UPTO 24"	INM	75
270	ERCT,PIPE,SS, ABV SCH 40-SCH 80, 24"-36"DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 80 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM ABOVE 24" DIA UPTO 36"	INM	50
271	ERCT,PIPE,SS, ABV SCH 80- SCH 160, UPTO 2" DIA	46	ERECTION- MECHANICAL ITEMS PIPELINE- SS ABOVE SCH 80 UPTO SCH 160 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS,JOINING OF FLANGES AFTER LAPPING AND BLUE MATCHING WITH NEW LENS GASKETS, FIXING GASKETS AND BOLTING ETC. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUM UPTO 2" DIA	INM	50
PIPING ERECTION JOBS OF CS GRADE:					
272	ERCT,PIPE,CS,AS UP TO SCH40, UPTO 2"DIA	39	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 LEVELING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVE WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB UPTO 2" DIA	INM	500
273	ERCT,PIPE,CS,AS, UP TO SCH 40, 2"-6" DIA	40	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 PIPELINE- CS/AS UPTO SCH 40 LEVELING, PROVIDING PROPER SUPPORT CLAMPS, JOINING OFFLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 2" DIA UPTO 6" DIA.	INM	500
274	ERCT,PIPE,CS,AS, UP TO SCH40, 6"-10"DIA	39	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 LEVELING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVE WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 6" DIA UPTO 10"	INM	300
275	ERCT,PIPE,CS,AS,UP TO SCH40,10-16"	34	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVE WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 10" DIA UPTO 16"	INM	200
276	ERCT,PIPE,CS,AS, UP TO SCH40, 16"-24"DIA	40	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVE WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 16" DIA UPTO 24"	INM	100
277	ERCT,PIPE,CS,AS, UP TO SCH40, 24"-36"DIA	40	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVE WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 24" DIA UPTO 36"	INM	50

278	ERCT,PIPE,CS,AS,ABV SCH40-SCH80, UPTO 2" DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB UPTO 2" DIA	INM	500
279	ERCT,PIPE,CS,AS,ABV SCH40-SCH80, 2"-6"DIA	41	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 2" DIA UPTO 6"	INM	500
280	ERCT,PIPE,CS,AS,ABV SCH40-SCH80,6-10"DIA	40	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 6" DIA UPTO 10"	INM	250
281	ERCT,PIPE,CS,AS,ABV SCH40-SCH80, 10"-16"DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 10" DIA UPTO 16"	INM	100
282	ERCT,PIPE,CS,AS,ABV SCH40-SCH80, 16"-24"DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 16" DIA UPTO 24"	INM	50
283	ERCT,PIPE,CS,AS,ABV SCH40-SCH80, 24"-36"DIA	43	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS ABOVE SCH 40 UPTO SCH 80 LEVELLING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVES WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB ABOVE 24" DIA UPTO 36"	INM	25
284	ERCT,PIPE,CS,AS, ABV SCH80 UP TO SCH XXS, UPTO 2"DIA	52	ERECTION- MECHANICAL ITEMS PIPELINE- CS/AS UPTO SCH 40 LEVELING, PROVIDING PROPER SUPPORT, CLAMPS, JOINING OF FLANGES, FIXING GASKETS AND BOLTING ETC. OF PIPELINE. ALL WELDED/FLANGED VALVE WILL BE TREATED AS PART OF PIPELINE AND PAID AS PER NUMB UPTO 2" DIA	INM	50
ELECRTICAL MOTOS REMOVAL, SHIFTING AND FIXING NEW					
285	RMVL,SHFTNG & FXNG MOTOR 11-90 KW	33	MECHANICAL - REMOVAL, SHIFTING AND FIXING OF MOTOR. SCOPE OF WORK INCLUDE OLD MOTOR REMOVAL , SHIFTING TO WORKSHOP, SHIFTING OF NEW MOTOR FROM STORE/WORKSHOP TO WORK SITE AND POSITIONING. MOTOR 11-90 KW	NO	50
286	RMVL,SHFTNG & FXNG MOTOR 90-315 KW	34	MECHANICAL - REMOVAL, SHIFTING AND FIXING OF MOTOR. SCOPE OF WORK INCLUDE OLD MOTOR REMOVAL , SHIFTING TO WORKSHOP, SHIFTING OF NEW MOTOR FROM STORE/WORKSHOP TO WORK SITE AND POSITIONING. MOTOR 90-315 KW	NO	25
287	RMVL,SHFTNG & FXNG MOTOR 315 KW AND ABV	39	MECHANICAL - REMOVAL, SHIFTING AND FIXING OF MOTOR. SCOPE OF WORK INCLUDE OLD MOTOR REMOVAL , SHIFTING TO WORKSHOP, SHIFTING OF NEW MOTOR FROM STORE/WORKSHOP TO WORK SITE AND POSITIONING. MOTOR 315 KW AND ABOVE	NO	10
288	RMVL & FXNG MOTOR 11-90 KW	26	MECHANICAL - REMOVAL AND FIXING OF MOTOR. SCOPE OF WORK INCLUDE OLD MOTOR REMOVAL AND POSITIONING OF NEW MOTOR 11-90 KW	NO	50
289	RMVL & FXNG MOTOR 90-315 KW	27	MECHANICAL - REMOVAL AND FIXING OF MOTOR. SCOPE OF WORK INCLUDE OLD MOTOR REMOVAL AND POSITIONING OF NEW MOTOR 90-315 KW	NO	25
290	RMVL & FXNG MOTOR 315 KW AND ABV	32	MECHANICAL - REMOVAL AND FIXING OF MOTOR. SCOPE OF WORK INCLUDE OLD MOTOR REMOVAL AND POSITIONING OF NEW MOTOR 315 KW AND ABOVE	NO	10
FABRICATION AND ERECTION OF STRUCUTRE MATERIALS:					
291	FAB,ERECTION,STRUCTURES,INCLUDES SCAFF	38	FABRICATION AND INSTALLATION / ERECTION- MECHANICAL ITEMS STRUCTURE INCLUDING PLATFORM, LADDERS, GRATINGS, PIPE SUPPORTS, CHEQUERED PLATE JOB INCLUDES PAINTING ONE COAT OF RED OXIDE PRIMER, 60 MICRON THICK, AFTER CLEANING. RATE IS INCLUSIVE OF SCAFFOLDING ARRANGEMENTS.	TON	2
292	FAB,ERECTION,STRUCTURES	23	FABRICATION AND INSTALLATION / ERECTION- MECHANICAL ITEMS STRUCTURE INCLUDING PLATFORM, LADDERS, GRATINGS, PIPE SUPPORTS, CHEQUERED PLATE JOB INCLUDES PAINTING ONE COAT OF RED OXIDE PRIMER, 60 MICRON THICK, AFTER CLEANING. WITH OUT SCAFFOLDING	TON	2
WRAPPING AND COATING JOBS OF UG PIPELINES:					
293	WRAPPING AND COATING	20	WRAPPING AND COATING UNDERGROUND PIPELINES WITH BITUMEN/POLYKEN 1027 PRIMER AND ONE LAYER OF POLYKEN 942-30 3PLY WRAPPING AND OUTER LAYER OF POLYKEN 955-EN. INCLUDING APPLICATION OF MASTIC FILLER ON BRANCHES AND FLANGE JOINTS.	M2	50
PLATES CUTTING JOBS:					
294	CUTTING,PLATE,BY GAS CUTTING,CS	31	CUTTING OF STEEL STRUCTURE STEEL PLATES CARBON STEEL PLATE BY GAS CUTTING	M	200
295	CUTTING,PLATE,BY GRINDING,CS/AS	31	UTTING OF STEEL STRUCTURE STEEL PLATES JOB INCLUDES STRAIGHT CUTTING BY GRINDING MATERIAL- CARBON STEEL / ALLOY STEEL	M	50
296	CUTTING,PLATE,BY GRINDING,SS	28	CUTTING OF STEEL STRUCTURE STEEL PLATES JOB INCLUDES STRAIGHT CUTTING BY GRINDING MATERIAL- STAINLESS STEEL	M	200
FABRICATION OF TEMPORARY TAIL BLINDS:					
297	FAB,BLIND WITH TAIL,MS,3-5MM TH,3/4"	36	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 1/2 INCH BUT UPTO 3/4 INCH	NO	50
298	FAB,BLIND WITH TAIL,MS,3-5MM TH,3/4"-1"	39	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 3/4 INCH BUT UPTO 1 INCH	NO	50
299	FAB,BLIND WITH TAIL,MS,3-5MM TH,1"-2"	37	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 1 INCH BUT UPTO 2 INCH	NO	50
300	FAB,BLIND WITH TAIL,MS,3-5MM TH,2"-6"	37	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 2 INCH BUT UPTO 6 INCH	NO	50
301	FAB,BLIND WITH TAIL,MS,3-5MM TH,6"-10"	38	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 6 INCH BUT UPTO 10 INCH	NO	25
302	FAB,BLIND WITH TAIL,MS,3-5MM TH,10"-14"	39	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 10 INCH BUT UPTO 14 INCH	NO	15
303	FAB,BLIND WITH TAIL,MS,3-5MM TH,14"-20"	39	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 14 INCH BUT UPTO 20 INCH	NO	10
304	FAB,BLIND WITH TAIL,MS,3-5MM TH,20"-24"	39	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 20 INCH BUT UPTO 24 INCH	NO	5
305	FAB,BLIND WITH TAIL,MS,3-5MM TH,24"-36"	39	FABRICATION JOBS FOR TEMPORARY BLINDS WITH TAIL FROM MS PLATES 3-5 MM THICK IRRESPECTIVE OF RATING, SIZE ABOVE 24 INCH BUT UPTO 36 INCH	NO	5
STRAINERS OPENING AND BOXING UP JOBS:					
306	OP/BX,STRNR,150#, UPTO 2"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF UPTO 2IN,150lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	150
307	OP/BX,STRNR,150#, 2"-4"	23	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 2" UPTO 4",150lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	150
308	OP/BX,STRNR,150#, 4"-10"	24	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 4" UPTO 10",150lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	150
309	OP/BX,STRNR,150#, 10"-16"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 10" UPTO 16",150lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	50
310	OP/BX,STRNR,150#, 16"-24"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 16" UPTO 24",150lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2. REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	25
311	OP/BX,STRNR,150#, 24"-36"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 24" UPTO 36",150lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	5
312	OP/BX,STRNR,300#, UPTO 2"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF UPTO 2IN,300lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	100
313	OP/BX,STRNR,300#, 2"-4"	23	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 2" UPTO 4",300lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK	EA	100
314	OP/BX,STRNR,300#, 4"-10"	24	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 4" UPTO 10",300lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	100

315	OP/BX,STRNR,300#, 10"-16"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 10" UPTO 16",300lbs rating SCOPE OF WORK: 1. OPENING OF COVER 2.REMOVAL OF STRAINER 3.FIXING OF NEW/CLEANED STRAINER 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	20
316	OP/BX,STRNR,300#, 16"-24"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 16" UPTO 24",300lbs rating SCOPE OF WORK: 1. OPENING OF COVER, 2.REMOVAL OF STRAINER, 3.FIXING OF NEW/CLEANED STRAINER, 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	10
317	OP/BX,STRNR,300#, 24"-36"	25	OPENING AND BOXING UP-MECHANICAL ITEMS STRAINEROPEN/BOX UP OF STRAINER COVER SIZE OF ABOVE 24" UPTO 36",300lbs rating SCOPE OF WORK: 1. OPENING OF COVER, 2.REMOVAL OF STRAINER, 3.FIXING OF NEW/CLEANED STRAINER, 4.BOX UP OF TOP COVER WITHOUT ANY LEAK.	EA	5
DM PLANT VESSELS HEADER AND COLLECTORS OPENING/BOXUP JOBS					
318	OP/BOX UP,HDR,BOTTOM COLLECTOR,SAC/SBA/MB	41	OPEN AND BOX UP OF BOTTOM COLLECTOR AND IT'S CONNECTING PARTS OF SAC IN O&U PLANT	NO	15
319	OP/BOX UP,HDR,MIDDLE COLLECTOR, SAC/SBA/MB	42	OPEN AND BOX UP OF MIDDLE COLLECTOR AND IT'S CONNECTING PARTS OF SAC IN O&U PLANT	NO	15
320	OP/BOX UP,HEADER,INLET, SAC/SBA/MB/ACF	38	OPENING AND BOX UP OF INLET LINE HEADER AND IT'S CONNECTING PARTS OF SAC IN O&U PLANT	NO	15
ERECTION AND REMOVAL OF EQUIPMENT JOBS:					
321	EREC,RMVL,VESSEL,EQUIPT,UP TO 2000KG	36	ERECTION / REMOVAL OF EQUIPMENT / VESSEL / STRAINER WHICH WEIGHT UP TO 2000 KG WITH REQUIRED LIFTING TOOL AND TACKELS.	TON	5
322	EREC,RMVL,VESSEL,EQUIPT,ABV 2000KG UP TO 5000 KG	48	ERECTION / REMOVAL OF EQUIPMENT / VESSEL / STRAINER WHICH WEIGHT ABOVE 2000KG UP TO 5000 KG WITH REQUIRED LIFTING TOOL AND TACKELS.	TON	5
LOADING / UNLOADING OF EQUIPMENT / VESSEL AT DESIGNATED LOCATION WITH REQUIRED LIFTING TOOL AND TACKELS.					
323	LOAD,UNLOAD,VESSEL,EQUIPT UPTO 10MT	35	LOADING / UNLOADING OF EQUIPMENT / VESSEL AT DESIGNATED LOCATION WITH WEIGHT UP TO 10 TON WITH REQUIRED LIFTING TOOL AND TACKELS.	TON	5
324	LOAD,UNLOAD,VESSEL,EQUIPT>10MT-UPTO 20MT	40	LOADING / UNLOADING OF EQUIPMENT / VESSEL AT DESIGNATED LOCATION WITH WEIGHT > 10 TON - UP TO 20 TON WITH REQUIRED LIFTING TOOL AND TACKELS.	TON	5
FABRICATION OF STRUCTURE ITEMS:					
325	FAB,STRUCTRE,CS,UPTO 100KG	27	FABRICATION OF CS STRUCTURE UP TO 100 KG AS PER REQUIREMENT. 1. CONSUMABLE SHALL BE IN VENDOR SCOPE.2. MATERIAL SHALL BE PROVIDED BY HURL.MINIMUM PAYMENT TO BE DONE FOR 20 KG IF FABRICATION IS DONE LESS THAN 20 KG. ABOVE 20 KG PAYMENT SHALL BE DONE ACTUAL QUANTITY BASIS	KG	2000
326	FAB,STRUCTRE,CS,>100KG TO 300KG	31	FABRICATION OF CS STRUCTURE > 100 KG TO 300 KG AS PER REQUIREMENT. 1. CONSUMABLE SHALL BE IN VENDOR SCOPE.2. MATERIAL SHALL BE PROVIDED BY HURL.	KG	2000
327	FAB,STRUCTRE,CS,>300KG TO 1000KG	32	FABRICATION OF CS STRUCTUREABOVE 300 KG AND UP TO 1000 KG AS PER REQUIREMENT. 1. CONSUMABLE SHALL BE IN VENDOR SCOPE2. MATERIAL SHALL BE PROVIDED BY HURL	KG	2000
COOLING TOWERS REPAIR JOBS:					
328	OP/BOX UP, ACT/UCT SCREEN CELL	30	OPENING OF ACT / UCT COOLING TOWER BASIN SCREEN AND BOX UP AFTER CLEANING.	EA	25
329	REM/BOX UP, ACT/UCT GEAR BOX & MOTOR	36	MECHANICAL - REPLACEMENT OF MECHANICAL ITEMS (REMOVAL AND INSTALLATION OF GEARBOX / MOTORS IN COOLING TOWERS)	NO	20
PATCH FABRICATION JOBS:					
330	PATCH, FAB, PIPE UPTO 300MM	27	PATCH FABRICATION OF PIPES UP TO 300 MM	EA	20
331	PATCH, FAB, PIPE,>300MM AND UPTO 1000MM	39	PATCH FABRICATION OF PIPES ABOVE 300 MM TO 1000 MM	EA	10
WELDING BOOTH PREPERATION:					
332	DBL,ENCLSR,SHT,FRBLNKT,EXPLS,AREA	33	FABRICATION AND INSTALLATION / ERECTION- MECHANICAL ITEMS , PROVIDING & FIXING/ ERECTION OF DOUBLE ENCLOSURE OF FIRE BLANKET/METALLIC SHEET AT ANY FABRICATION, WELDING JOB IN EXPLOSIVE AREA AT ANY HEIGHT .DETAIL SCOPE OF JOB ARE-1. SHIFTING OF MATERIAL.2. SHEET/ FIRE BLANKET REQUIRED FOR DEVELOPING THE ENCLOSURE.3. MEASUREMENT SHALL BE COUNTED AS SURFACE AREA OF ENCLOSURE WITH DOUBLE LINED.	M2	500
HDPE/CPVC/PP PIPE JOINTS					
333	HDPE PIPE CUTTING/JOINTING 15 MM NB (UPTO 20 THK)	52	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
334	HDPE PIPE CUTTING/JOINTING 20 MM NB (UPTO 20 THK)	52	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
335	HDPE PIPE CUTTING/JOINTING 25 MM NB (UPTO 20 THK)	52	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
336	HDPE PIPE CUTTING/JOINTING 40 MM NB (UPTO 20 THK)	52	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
337	HDPE PIPE CUTTING/JOINTING 50 MM NB (UPTO 20 THK)	52	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
338	HDPE PIPE CUTTING/JOINTING 80 MM NB (UPTO 20 THK)	52	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
339	HDPE PIPE CUTTING/JOINTING 100 MM NB (UPTO 20 THK)	53	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	100
340	HDPE PIPE CUTTING/JOINTING 150 MM NB (UPTO 20 THK)	53	FABRICATION OF HDPE PIPE JOINTS AS PER DRAWINGS / INSTRUCTIONS OF ENGINEER-IN- CHARGE OF HEAVY THICKNESS UP TO 20 MM THICK, CUTTING OF PIPE ACCORDING TO SIZE, PREPARATION OF EDGE ACCORDING TO PROCEDURE, MAKING OF JOINTS INCLUDING MITRE / FLANGE / "T" BY A QUALIFIED APPROVED FABRICATOR. THE JOINTS SHOULD BE LEAKY PROOF. ALL LABOURS, EQUIPMENT, TOOLS AND TACKLES, CONSUMABLES ETC. TO BE ARRANGED BY THE PARTY AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.	NO	50
FABRICATION OF STRAINER					
341	CUTTg, BENDING, FORMING, FIXING, WELDING & FAB. OF STRAINER DIA- 40 MM	72	THE JOB INCLUDES FABRICATION OF STRAINER BY CUTTING, BENDING, FORMING OF STRAINER FRAME AND FIXING OF SS WIRE MESH BY TYING, STITCHING AND WELDING ETC. AND GRINDING /SMOOTHENING THE SAME, COMPLETE IN ALL RESPECT AS PER SPECIFICATION, DRAWING AND INSTRUCTION OF ENGINEER-IN-CHARGE.	NO	5
342	CUTTg, BENDING, FORMING, FIXING, WELDING & FAB. OF STRAINER DIA- 50 MM	71	THE JOB INCLUDES FABRICATION OF STRAINER BY CUTTING, BENDING, FORMING OF STRAINER FRAME AND FIXING OF SS WIRE MESH BY TYING, STITCHING AND WELDING ETC. AND GRINDING /SMOOTHENING THE SAME, COMPLETE IN ALL RESPECT AS PER SPECIFICATION, DRAWING AND INSTRUCTION OF ENGINEER-IN-CHARGE.	NO	5
343	CUTTg, BENDING, FORMING, FIXING, WELDING & FAB. OF STRAINER DIA- 80 MM	72	THE JOB INCLUDES FABRICATION OF STRAINER BY CUTTING, BENDING, FORMING OF STRAINER FRAME AND FIXING OF SS WIRE MESH BY TYING, STITCHING AND WELDING ETC. AND GRINDING /SMOOTHENING THE SAME, COMPLETE IN ALL RESPECT AS PER SPECIFICATION, DRAWING AND INSTRUCTION OF ENGINEER-IN-CHARGE.	NO	5
344	CUTTg, BENDING, FORMING, FIXING, WELDING & FAB. OF STRAINER DIA- 100 MM	72	THE JOB INCLUDES FABRICATION OF STRAINER BY CUTTING, BENDING, FORMING OF STRAINER FRAME AND FIXING OF SS WIRE MESH BY TYING, STITCHING AND WELDING ETC. AND GRINDING /SMOOTHENING THE SAME, COMPLETE IN ALL RESPECT AS PER SPECIFICATION, DRAWING AND INSTRUCTION OF ENGINEER-IN-CHARGE.	NO	5

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360	FAB, INSTALLATION OF CLAMPS FOR DIA 400 MM PIPE	48	TRANSPORTATION OF ALL MATERIAL FROM STORE TO WORKSITE. FABRICATION OF CLAMPS FROM PIPE IN TWO HALVES INCLUDING GRIPPING EDGE BY CUTTING AND WELDING, MAKING REQUIRED NUMBER OF HOLES IN BOTH HALVES, SMOOTHENING THE CUT EDGE BY GRINDING, INSTALLATION OF CLAMP OVER THE LEAKY PIPE/PIPE FITTING INCLUDING RUBBER PAD AND TIGHTENING TO MAKE IT LEAK FREE AS PER INSTRUCTIONS OF THE ENGINEER-IN- CHARGE. SUPPLY OF LABOUR, CONSUMABLES, TOOLS AND TACKLES, SUPERVISION ETC. WILL BE IN CONTRACTOR'S SCOPE. NOTE: MINIMUM 6MM THICK PIPE TO BE USED FOR CLAMP UPTO DIA 8" AND MINIMUM 8MM THICK PIPE TO BE USED FOR DIA 8" TO DIA 14" AND MINIMUM 10MM THICK PIPE TO BE USED FOR DIA 14" & ABOVE.	NO	2
361	FAB, INSTALLATION OF CLAMPS FOR DIA 450 MM PIPE	48	TRANSPORTATION OF ALL MATERIAL FROM STORE TO WORKSITE. FABRICATION OF CLAMPS FROM PIPE IN TWO HALVES INCLUDING GRIPPING EDGE BY CUTTING AND WELDING, MAKING REQUIRED NUMBER OF HOLES IN BOTH HALVES, SMOOTHENING THE CUT EDGE BY GRINDING, INSTALLATION OF CLAMP OVER THE LEAKY PIPE/PIPE FITTING INCLUDING RUBBER PAD AND TIGHTENING TO MAKE IT LEAK FREE AS PER INSTRUCTIONS OF THE ENGINEER-IN- CHARGE. SUPPLY OF LABOUR, CONSUMABLES, TOOLS AND TACKLES, SUPERVISION ETC. WILL BE IN CONTRACTOR'S SCOPE. NOTE: MINIMUM 6MM THICK PIPE TO BE USED FOR CLAMP UPTO DIA 8" AND MINIMUM 8MM THICK PIPE TO BE USED FOR DIA 8" TO DIA 14" AND MINIMUM 10MM THICK PIPE TO BE USED FOR DIA 14" & ABOVE.	NO	2
362	FAB, INSTALLATION OF CLAMPS FOR DIA 500 MM PIPE	48	TRANSPORTATION OF ALL MATERIAL FROM STORE TO WORKSITE. FABRICATION OF CLAMPS FROM PIPE IN TWO HALVES INCLUDING GRIPPING EDGE BY CUTTING AND WELDING, MAKING REQUIRED NUMBER OF HOLES IN BOTH HALVES, SMOOTHENING THE CUT EDGE BY GRINDING, INSTALLATION OF CLAMP OVER THE LEAKY PIPE/PIPE FITTING INCLUDING RUBBER PAD AND TIGHTENING TO MAKE IT LEAK FREE AS PER INSTRUCTIONS OF THE ENGINEER-IN- CHARGE. SUPPLY OF LABOUR, CONSUMABLES, TOOLS AND TACKLES, SUPERVISION ETC. WILL BE IN CONTRACTOR'S SCOPE. NOTE: MINIMUM 6MM THICK PIPE TO BE USED FOR CLAMP UPTO DIA 8" AND MINIMUM 8MM THICK PIPE TO BE USED FOR DIA 8" TO DIA 14" AND MINIMUM 10MM THICK PIPE TO BE USED FOR DIA 14" & ABOVE.	NO	1
363	FAB, INSTALLATION OF CLAMPS FOR DIA 600 MM PIPE	48	TRANSPORTATION OF ALL MATERIAL FROM STORE TO WORKSITE. FABRICATION OF CLAMPS FROM PIPE IN TWO HALVES INCLUDING GRIPPING EDGE BY CUTTING AND WELDING, MAKING REQUIRED NUMBER OF HOLES IN BOTH HALVES, SMOOTHENING THE CUT EDGE BY GRINDING, INSTALLATION OF CLAMP OVER THE LEAKY PIPE/PIPE FITTING INCLUDING RUBBER PAD AND TIGHTENING TO MAKE IT LEAK FREE AS PER INSTRUCTIONS OF THE ENGINEER-IN- CHARGE. SUPPLY OF LABOUR, CONSUMABLES, TOOLS AND TACKLES, SUPERVISION ETC. WILL BE IN CONTRACTOR'S SCOPE. NOTE: MINIMUM 6MM THICK PIPE TO BE USED FOR CLAMP UPTO DIA 8" AND MINIMUM 8MM THICK PIPE TO BE USED FOR DIA 8" TO DIA 14" AND MINIMUM 10MM THICK PIPE TO BE USED FOR DIA 14" & ABOVE.	NO	1
PRILLING BUCKET REPLACEMENT					
364	DISMANTLING,CLEANING AND REFIXING OF PRILLING BUCKET OF PRILLING TOWER.	71	THE JOB INCLUDES OPENING / DISMANTLING OF A PRILLING BUCKET AND CONNECTING PIPES, SHIFTING OF BUCKET TO GROUND FLOOR, CLEANING OF PRILLING BUCKET, REPLACEMENT OF GASKET, FIXING OF PRILLING BUCKET IN POSITION AND BOXING UP COVER ALONG WITH CONNECTING PIPE. REPLACEMENT OF PRILLING BUCKET IS TO BE CARRIED OUT IF REQUIRED AND AS PER DIRECTION OF ENGINEER- IN-CHARGE. ALL TOOLS, TACKLES, ADVANCED TOOLS, MANPOWER AND OTHER RESOURCES TO EXECUTE THE JOB ARE IN THE SCOPE OF THE CONTRACTOR. AFTER COMPLETION OF WORK THE AREA IS TO BE CLEANED AND SCRAP MATERIALS ARE TO BE REMOVED AS PER DIRECTION AND ENTIRE SATISFACTION OF THE ENGINEER-IN-CHARGE.	NO	200
FABRICATION OF CARBON STEEL MITRE CUT BENDS (45' BENDS)					
365	Schedule upto 40		Preparing drawings and fabrication of the 45 deg. carbon steel mitre bends (Two pieces, one joint) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipments,consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-7018. NOTE:Piping up to 40mm NB shall be fully TIG welded. Piping size 50mm NB & above, where TIG welding is used for root run only.	ID	10
366	Schedule above 40 but upto 80		Preparing drawings and fabrication of the 45 deg. carbon steel mitre bends (Two pieces, one joint) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipments,consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-7018. NOTE:Piping up to 40mm NB shall be fully TIG welded. Piping size 50mm NB & above, where TIG welding is used for root run only.	ID	10
367	Schedule above 80 but upto 160		Preparing drawings and fabrication of the 45 deg. carbon steel mitre bends (Two pieces, one joint) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipments,consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-7018. NOTE:Piping up to 40mm NB shall be fully TIG welded. Piping size 50mm NB & above, where TIG welding is used for root run only.	ID	10
368	Schedule XX Strong		Preparing drawings and fabrication of the 45 deg. carbon steel mitre bends (Two pieces, one joint) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipments,consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-7018. NOTE:Piping up to 40mm NB shall be fully TIG welded. Piping size 50mm NB & above, where TIG welding is used for root run only.	ID	10
FABRICATION OF CARBON STEEL MITRE CUT BENDS (90' BENDS)					
369	Schedule upto 40		Preparing drawings and fabrication of the 90 deg. carbon steel mitre bends (Three piece, two joints) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipment, consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-E-7018.	ID	20
370	Schedule above 40 but upto 80		Preparing drawings and fabrication of the 90 deg. carbon steel mitre bends (Three piece, two joints) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipment, consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-E-7018.	ID	10
371	Schedule above 80 but upto 160		Preparing drawings and fabrication of the 90 deg. carbon steel mitre bends (Three piece, two joints) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipment, consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-E-7018.	ID	10
372	Schedule XX Strong		Preparing drawings and fabrication of the 90 deg. carbon steel mitre bends (Three piece, two joints) including transportation of materials from owner's storage points to work site and / or shop, cutting, edge preparing, welding using electrodes as per owner's quality requirements including supply of all necessary equipment, consumables, labour, tools, tackles and supervision. Work shall be carried out as per the specifications, drawings, codes, and instructions to the full satisfaction of the Engineer-in-Charge. Welding Electrode: E-E-7018.	ID	5
FABRICATION OF CARBON STEEL REDUCERS					
373	80mm NB to below reducer, Schedule upto 40		Preparing drawings and fabrication of the following specials including transportation of materials from owner's storage points to work site and / shop, cutting, edge preparing, welding, dye penetration test of weld joint as per owner's quality requirements, including supply of all necessary equipment, Consumables, labour, tools, tackles, and supervision, work shall be carried out as per the specifications drawings, codes, and instructions to the full satisfaction of the Engineer-in- charge. Welding Electrode: E-7018.	EA	5
374	100 mm NB to below reducer, Schedule upto 40		Preparing drawings and fabrication of the following specials including transportation of materials from owner's storage points to work site and / shop, cutting, edge preparing, welding, dye penetration test of weld joint as per owner's quality requirements, including supply of all necessary equipment, Consumables, labour, tools, tackles, and supervision, work shall be carried out as per the specifications drawings, codes, and instructions to the full satisfaction of the Engineer-in- charge. Welding Electrode: E-7018.	EA	5

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392	Branch size 12 inch		Transportation from owner's storage points to work site and/ or pre-fabrication yard and to site after pre-fabrication; cutting, grinding, edge preparation as per the instructions of the Engineer-in-Charge to his entire satisfaction including supplying of all types of tools and tackles, lifting arrangements, equipment, machineries, all consumables and labour etc. to complete the work in all respects in a workman like manner including area preparation for hot jobs, area cleaning after completion of work, pneumatic testing, cleaning of pipes externally off all foreign materials like weld beads, clamps fixtures etc. used in fabrication as directed by the Engineer-in-Charge.	EA	2
PROVISION OF REINFORCEMENT PAD FOR SS					
393	Branch size 2 inch		Transportation from owner's storage points to work size ano/ or pre-rafabrication yard and to site after pre-fabrication; cutting, grinding, edge preparation as per the instructions of the Engineer-in-Charge to his entire satisfaction including supplying of all types of tools and tackles, lifting arrangements, equipment, machineries, all consumables and labour etc. to complete the work in all respects in a workman like manner including area preparation for hot jobs, area cleaning after completion of work, pneumatic testing, cleaning of pipes externally off all foreign materials like weld beads, clamps fixtures etc. used in fabrication as directed by the Engineer-in- Charge.	EA	2
394	Branch size 3 inch		Transportation from owner's storage points to work size ano/ or pre-rafabrication yard and to site after pre-fabrication; cutting, grinding, edge preparation as per the instructions of the Engineer-in-Charge to his entire satisfaction including supplying of all types of tools and tackles, lifting arrangements, equipment, machineries, all consumables and labour etc. to complete the work in all respects in a workman like manner including area preparation for hot jobs, area cleaning after completion of work, pneumatic testing, cleaning of pipes externally off all foreign materials like weld beads, clamps fixtures etc. used in fabrication as directed by the Engineer-in- Charge.	EA	2
395	Branch size 4 inch		Transportation from owner's storage points to work size ano/ or pre-rafabrication yard and to site after pre-fabrication; cutting, grinding, edge preparation as per the instructions of the Engineer-in-Charge to his entire satisfaction including supplying of all types of tools and tackles, lifting arrangements, equipment, machineries, all consumables and labour etc. to complete the work in all respects in a workman like manner including area preparation for hot jobs, area cleaning after completion of work, pneumatic testing, cleaning of pipes externally off all foreign materials like weld beads, clamps fixtures etc. used in fabrication as directed by the Engineer-in- Charge.	EA	2
396	Branch size 6 inch		Transportation from owner's storage points to work size ano/ or pre-rafabrication yard and to site after pre-fabrication; cutting, grinding, edge preparation as per the instructions of the Engineer-in-Charge to his entire satisfaction including supplying of all types of tools and tackles, lifting arrangements, equipment, machineries, all consumables and labour etc. to complete the work in all respects in a workman like manner including area preparation for hot jobs, area cleaning after completion of work, pneumatic testing, cleaning of pipes externally off all foreign materials like weld beads, clamps fixtures etc. used in fabrication as directed by the Engineer-in- Charge.	EA	2
397	Branch size 8 inch		Transportation from owner's storage points to work size ano/ or pre-rafabrication yard and to site after pre-fabrication; cutting, grinding, edge preparation as per the instructions of the Engineer-in-Charge to his entire satisfaction including supplying of all types of tools and tackles, lifting arrangements, equipment, machineries, all consumables and labour etc. to complete the work in all respects in a workman like manner including area preparation for hot jobs, area cleaning after completion of work, pneumatic testing, cleaning of pipes externally off all foreign materials like weld beads, clamps fixtures etc. used in fabrication as directed by the Engineer-in- Charge.	EA	2
HYDROTESING OF PIPELINES AND VESSELS/BULLETS					
398	Pipes		Hydrostatic testing of pipelines at the specified pressure including blinding/deblinding, fabrication and fixing of testing connections, pressure gauge installation. Hose pipe connection and making all other arrangements as required and dewatering, flushing and boxing up after fixing proper gaskets with supply of all labour, tools and tackles, instruments and instruction of the Engineer-in-Charge. The job has to be carried out at all elevations.	IM	1000
399	Vessel/ Bullet		Hydrostatic testing of pipelines at the specified pressure including blinding/deblinding, fabrication and fixing of testing connections, pressure gauge installation. Hose pipe connection and making all other arrangements as required and dewatering, flushing and boxing up after fixing proper gaskets with supply of all labour, tools and tackles, instruments and instruction of the Engineer-in-Charge. The job has to be carried out at all elevations.	M3	20
DEMISTER PAD REPLACEMENTS					
400	Demister size upto 1m dia		Removal of existing demister pad with frame after debolting / cold/ hot cutting, insertion and fixing of new demister pad with frame as per instruction of the Engineer-in-Charge. This job includes transportation of new pad to the work site, depositing the old pad at owner's storage point, minor hot job if any for replacement as per site conditions, enabling necessary arrangements and complete job in all respect as per instruction of Engineer-in-charge including supply of all tools and tackles, machinery, labour, consumables etc.	EA	5
401	Demister size above 1m and up to 2m dia		Removal of existing demister pad with frame after debolting / cold/ hot cutting, insertion and fixing of new demister pad with frame as per instruction of the Engineer-in-Charge. This job includes transportation of new pad to the work site, depositing the old pad at owner's storage point, minor hot job if any for replacement as per site conditions, enabling necessary arrangements and complete job in all respect as per instruction of Engineer-in-charge including supply of all tools and tackles, machinery, labour, consumables etc.	EA	5
402	Demister size above 2m and up to 3m dia		Removal of existing demister pad with frame after debolting / cold/ hot cutting, insertion and fixing of new demister pad with frame as per instruction of the Engineer-in-Charge. This job includes transportation of new pad to the work site, depositing the old pad at owner's storage point, minor hot job if any for replacement as per site conditions, enabling necessary arrangements and complete job in all respect as per instruction of Engineer-in-charge including supply of all tools and tackles, machinery, labour, consumables etc.	EA	5
403	Demister size above 3m and up to 4m dia		Removal of existing demister pad with frame after debolting / cold/ hot cutting, insertion and fixing of new demister pad with frame as per instruction of the Engineer-in-Charge. This job includes transportation of new pad to the work site, depositing the old pad at owner's storage point, minor hot job if any for replacement as per site conditions, enabling necessary arrangements and complete job in all respect as per instruction of Engineer-in-charge including supply of all tools and tackles, machinery, labour, consumables etc.	EA	5
REVISIONING OF BURNER ASSEMBLY					
404	REVISIONING OF BURNER ASSEMBLY		Opening of the burner assembly from its original position, lowering down to a safe place, dismantling the assembly, cleaning the burners by oil, steam etc., greasing and assembling the parts and fixing back to proper places as directed by the Engineer-in-Charge including alignment of burner, and other enabling arrangements for the job and complete the job in all respect as per drawings and direction of the Engineer-in- Charge, including all labour, tools, tackles, consumables and supervision etc.	EA	20
CLEANING/ REPLACEMENT OF FILTER					
405	CLEANING/ REPLACEMENT OF FILTER		The job includes opening / dismantling of a filter element from filter basket / housing by opening its cover / connecting pipes, cleaning of filter element and filter housing suitably, Fixing of filter element in position and boxing up cover along with connecting pipes and hot bolting. Replacement of filters is to be carried out if required and as per direction of Engineer- In-Charge. The rate is for all types of filter irrespective of mesh size (Micron size). All tools, tackles, advanced tools, manpower and other resources to execute the job are in the scope of the contractor. After completion of work the area is to be cleaned properly.	EA	200
OPENING AND BOX UP OF CHANNEL COVER/ DOME COVER /END COVER/FLOATING HEAD OF HEAT EXCHANGER					
406	Heat exchanger single unit having less than 600 tubes		Ensure that the exchanger/ its connections are isolated completely before opening and necessary clearance is available for disassembly, open dome cover/ channel covers/floating cover/End cover with correct procedures and by use of quality tools/tackles. Ensure use of lifting tackles/ equipments with valid load test certificates, cleaning of bolts/ studs/ nuts with rustolene/kerosene and made it free rust etc., apply molecoat/ grease as instructed by engineer in charge, cleaning of gasket faces/ grooves with utmost care and replacement of the gaskets with similar size and material and in consultation with EIC. Apply proper sealant for fixing of gasket on gasket face.	EA	15
407	Heat exchanger single unit having more than 600 tubes		Ensure that the exchanger/ its connections are isolated completely before opening and necessary clearance is available for disassembly, open dome cover/ channel covers/floating cover/End cover with correct procedures and by use of quality tools/tackles. Ensure use of lifting tackles/ equipments with valid load test certificates, cleaning of bolts/ studs/ nuts with rustolene/kerosene and made it free rust etc., apply molecoat/ grease as instructed by engineer in charge, cleaning of gasket faces/ grooves with utmost care and replacement of the gaskets with similar size and material and in consultation with EIC. Apply proper sealant for fixing of gasket on gasket face.	EA	10
408	Heat exchanger double unit having less than 600 tubes		Ensure that the exchanger/ its connections are isolated completely before opening and necessary clearance is available for disassembly, open dome cover/ channel covers/floating cover/End cover with correct procedures and by use of quality tools/tackles. Ensure use of lifting tackles/ equipments with valid load test certificates, cleaning of bolts/ studs/ nuts with rustolene/kerosene and made it free rust etc., apply molecoat/ grease as instructed by engineer in charge, cleaning of gasket faces/ grooves with utmost care and replacement of the gaskets with similar size and material and in consultation with EIC. Apply proper sealant for fixing of gasket on gasket face.	EA	10

409	Heat exchanger double unit having more than 600 tubes		Ensure that the exchanger/ its connections are isolated completely before opening and necessary clearance is available for disassembly, open dome cover/ channel covers/floating cover/End cover with correct procedures and by use of quality tools/tackles. Ensure use of lifting tackles/ equipments with valid load test certificates, cleaning of bolts/ studs/ nuts with rustolene/kerosene and made it free rust etc., apply molecoat/ grease as instructed by engineer in charge, cleaning of gasket faces/ grooves with utmost care and replacement of the gaskets with similar size and material and in consultation with EIC. Apply proper sealant for fixing of gasket on gasket face.	EA	10
HYDROTEST/ PNEUMATIC TEST OF HEAT EXHANGER					
410	Shell Side		Blinding/ de-blinding of the nozzle connections as per the standard procedure, Bolting of the Test Rings wherever required, Connecting the test hoses of suitable size and rating between the Test Pump and HeatExchanger in consultation with EIC. Arrangement of Test pump & related accessorieslike hoses, connections, fittings etc. will be in scope of contractor while performing the job. Hydrotesting of the Shell Side/ Tube Side as per the Data sheet and or as instructed by EIC to the required Hydrotest pressure to the complete satisfaction of EIC/ inspecting authority. Removal of all the test hoses and test rings, complete assembly of the Exchanger with new gaskets in consultation with Engineer-in-charge and tightening to the required torque with modern tightening tools like hydraulic/ pneumatic torque wrenches,Housekeeping after completion of job and preparing the Test reports as per the format made available.	M3	100
411	Tubes Side		Blinding/ de-blinding of the nozzle connections as per the standard procedure, Bolting of the Test Rings wherever required, Connecting the test hoses of suitable size and rating between the Test Pump and HeatExchanger in consultation with EIC. Arrangement of Test pump & related accessorieslike hoses, connections, fittings etc. will be in scope of contractor while performing the job. Hydrotesting of the Shell Side/ Tube Side as per the Data sheet and or as instructed by EIC to the required Hydrotest pressure to the complete satisfaction of EIC/ inspecting authority. Removal of all the test hoses and test rings, complete assembly of the Exchanger with new gaskets in consultation with Engineer-in-charge and tightening to the required torque with modern tightening tools like hydraulic/ pneumatic torque wrenches,Housekeeping after completion of job and preparing the Test reports as per the format made available.	NOS	8000
PLUGGING OF LEAKED TUBES					
412	Upto 12 mm tube dia		Identification of tube to be plugged, tube plugging with proper, sized and suitable material of construction, plug ( plug will be supplied by HURL free of cost), Checking leak or hold test after plugging of particular tube, Drying of tube if applicable.	EA	20
413	Above 12 mm upto 25 mm tube dia		Identification of tube to be plugged, tube plugging with proper, sized and suitable material of construction, plug ( plug will be supplied by HURL free of cost), Checking leak or hold test after plugging of particular tube, Drying of tube if applicable.	EA	20
414	Above 25 mm tube dia		Identification of tube to be plugged, tube plugging with proper, sized and suitable material of construction, plug ( plug will be supplied by HURL free of cost), Checking leak or hold test after plugging of particular tube, Drying of tube if applicable.	EA	20
SEAL WELDING OF PLUGGED TUBES					
415	SEAL WELDING OF EXCHANGER TUBE - 20 MM		Identification of plugged tubes, seal welding of tube plugs with tube with proper electrode as directed by engineer in charge, DP test of welded area, Checking leak or hold test after seal welding.	EA	25
416	SEAL WELDING OF EXCHANGER TUBE - 25 MM		Identification of plugged tubes, seal welding of tube plugs with tube with proper electrode as directed by engineer in charge, DP test of welded area, Checking leak or hold test after seal welding.	EA	25
AIR COOLER / INTER COOLER / AFTER COOLER / OIL COOLER REVISIONING AND TESTING (HAVING LESS THAN 100 TUBES)					
417	AIR COOLER / INTER COOLER / AFTER COOLER / OIL COOLER REVISIONING AND TESTING (HAVING LESS THAN 100 TUBES)		Blinding-deblinding, inlet/ outlet piping spool removal & refixing, cover opening, cleaning and boxing up on both sides, hydro test of shell and tube sheet, individual tube testing and plugging if required, hydraulic cover testing by opening of flanges, inside tube cleaning as per instructions of Engineer in-charge including all labour, tools and tackles, consumables, supervision etc., scrap removal and complete area cleaning. In case any repeat test or any single test among the above is required to be done.	EA	15
SAMPLE COOLER REVISIONING / CLEANING / TESTING					
418	SAMPLE COOLER REVISIONING / CLEANING / TESTING		Sample cooler revisioning / cleaning and testing, the job involves opening of cover, removal of coil assembly, lowering at ground level, cleaning coils to remove scales from its surface, testing of coil at specified pressure as per direction of engineer in charge, detection of leak if any, repair the same, boxing up of coil / cooler to complete the job in all respect all tools and tackles pressure gauge etc. as per the direction of the Engineer-in-Charge.	EA	40
REMOVAL/ INSTALLATION OF TRAYS/ PACKING RINGS/ STRUCTURED PACKING					
419	Removal of Packing Rings/ Rachig Rings/ Ferrules		The job includes getting the materials issued from stores, transportation to work site, mock up assembly and marking of individual elements at site, removal of tray deck plates, down comer, seal pan, packing rings etc. by debolting, cutting or by any other means without damaging the unit, lowering down them to ground and handling, placing, aligning and fixing with proper gaskets of all components of trays, down comer, seal pan, packing rings etc. with all consumables, tools, manpower to the entire satisfaction of Engineer- in-Charge.	KG	1000
420	Removal of Trays/ Down comer/ Structured packing		The job includes getting the materials issued from stores, transportation to work site, mock up assembly and marking of individual elements at site, removal of tray deck plates, down comer, seal pan, packing rings etc. by debolting, cutting or by any other means without damaging the unit, lowering down them to ground and handling, placing, aligning and fixing with proper gaskets of all components of trays, down comer, seal pan, packing rings etc. with all consumables, tools, manpower to the entire satisfaction of Engineer- in-Charge.	KG	1000
421	Installation of Packing Rings/ Rachig Rings/ Ferrules		The job includes getting the materials issued from stores, transportation to work site, mock up assembly and marking of individual elements at site, removal of tray deck plates, down comer, seal pan, packing rings etc. by debolting, cutting or by any other means without damaging the unit, lowering down them to ground and handling, placing, aligning and fixing with proper gaskets of all components of trays, down comer, seal pan, packing rings etc. with all consumables, tools, manpower to the entire satisfaction of Engineer- in-Charge.	KG	1000
422	Installation of Trays /Down comer/ Structured packing		The job includes getting the materials issued from stores, transportation to work site, mock up assembly and marking of individual elements at site, removal of tray deck plates, down comer, seal pan, packing rings etc. by debolting, cutting or by any other means without damaging the unit, lowering down them to ground and handling, placing, aligning and fixing with proper gaskets of all components of trays, down comer, seal pan, packing rings etc. with all consumables, tools, manpower to the entire satisfaction of Engineer- in-Charge.	KG	1000
MAINTENANCE OF VESSEL/ COLUMN/ TOWER					
423	MAINTENANCE OF VESSEL/ COLUMN/ TOWER		The job includes blinding/ de-blinding, hose connections for steaming, water flushing, air flushing, and entry permit of vessel, opening of manholes, hand holes, vent etc.. Thorough cleaning of internal surface and fittings, removal and refitting of components, strainers after cleaning. Removal, reloading/ replacement of raching/ poll rings and ferrules etc. including transportation of material and disposa of the refusal and minor repairs like weld build up of the scarred portion/ pitted area wherever required etc. gasket cutting at the required sizes from gasket sheet and replacing the same including cleaning of joint surface. Final blinding / de-blinding, boxing up and other necessary piping connections, hydraulic testing, hot bolting of all joints during hot circulation as per requirement and as instructed by Engineer-in-Charge.	M2	250
PLATE HEAT EXCHANGER CLEANING AND BOX UP					
	PHE CLEANING AND BOX-UP		Blinding-deblinding, inlet/ outlet piping spool removal & refixing, end/pressure plate opening, cleaning and boxing up on both sides, hydro test plate at rated pressure, individual plate inspection and replacement if required, gasket fixing/replacement, plate cleaning as per instructions of Engineer in-charge including all labour, tools and tackles, consumables, supervision etc., scrap removal and complete area cleaning. In case any repeat test or any single test among the above is required to be done.		
424	PHE cleaning and box up upto 50 plate			EA	10
425	PHE cleaning and box up 51-100 plate			EA	10
426	PHE cleaning and box up 101-200 plate			EA	15
427	PHE cleaning and box up 201-300 plate			EA	15
428	PHE cleaning and box up 301-400 plate			EA	5
DECHOKING OF PROCESS LINE/ PRODUCT LINE					
429	Dia up to 1"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20
430	Dia 1"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20

431	Dia 2"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20
432	Dia 3"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20
433	Dia 4"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20
434	Dia 6"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20
434	Dia 8"		Dechoking of process line/product line by poking rod inside or any other means. This includes opening/ removal of spool piece of piping to be dechoked, removal of sludge/ hard deposits etc. by poking rod/ dechoking by steam or any other means and fixing / erecting the line in position after dechoking, including cutting and fixing suitable size as per instructions of Engineer-in-charge including supply of all labour, tools and tackles, machinery etc.	M	20
REVISIONING OF PEEP HOLES					
435	REVISIONING OF PEEP HOLES		Opening of peep holes, cleaning of glass, inspection/ revisioning minor repairs, weld build up, replacement of view glass etc. if required and fixing back in position, and complete job in all respect as per instruction of Engineer-in-charge including supply of all tools and tackles, machinery, labour, consumables etc.	EA	50
REVISIONING OF EXPLOSION DOOR					
436	REVISIONING OF EXPLOSION DOOR		Revisioning of explosion door, opening of expansion/ inspection doors, inspection/ revisioning and removal of refractory/ provision of lugs by welding, if required, minor repairs, weld build up, etc. if required, and fixing back in position, and complete job in all respect as per instruction of Engineer-in-charge including supply of all tools and tackles, machinery,labour, consumables etc.	EA	4
SUPPLY OF MANPOWER:					
437	SERVICES OF WELDER-WITH HOLDER & SCREEN,NORM	44	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS. WELDER ALONG WITH HOLDER, SCREEN FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	365
438	SERVICES OF IBR WELDER ALONG WITH HOLDER AND SCREEN, NORMAL	59	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS, IBR WELDER TECHNICIAN FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	365
439	SERVICES OF FABRICATOR / GRINDER -W/TOOLS/TACKLES,NORM	54	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS FABRICATOR / GRINDER ALONG WITH TOOLS/TACKLES FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	730
440	SERVICES OF FITTER ALONG WITH TOOLS,NORM	40	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS. FITTER ALONG WITH TOOLS FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	730
441	SERVICES OF GAS CUTTER-W/TOOLS & CNSMLS,NORM	44	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS. GAS CUTTER ALONG WITH TOOLS AND CONSUMABLES FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	730
442	SERVICES OF ASSIST,RIGGER,NORM	30	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS. RIGGER WITHOUT TOOLS	MDS	1095
443	SERVICES OF ASSIST,HELPER,NORM	30	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS HELPER WITHOUT TOOLS / TACKLES FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	2190
444	ASSIST,MECH JOB,SUPERVISOR,NORM	31	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:SUPERVISOR FOR ROUTINE MAINTENANCE JOBS FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	365
445	SERVICES OF MACHINIST,NORM	26	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS, MACHINIST FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	730
446	SERVICES OF MILL WRIGHT FITTER / ROTARY TECHNICIAN WITH TOOLS, NORMAL	69	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS, ROTARY TECHNICIAN FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	730
447	SERVICES OF CRANE / HYDRA OPERATOR,NORM		ASSISTANCE IN EXECUTION OF MECHANICAL JOBS, CRANE / HYDRA OPERATOR FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	365
448	SERVICES OF FORKLIFT OPERATOR,NORM		ASSISTANCE IN EXECUTION OF MECHANICAL JOBS, FORKLIFT OPERATOR FOR WORKING OF 8 HOURS SHIFT ON NORMAL DAYS	MDS	365
OVER TIME CHARGES – MANPOWER					
449	ASSIST,OT,GAS CUTTER,BEYOND NORMAL HRS	38	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:OVERTIME CHARGES FOR GAS CUTTER FOR WORKING BEYOND NORMAL WORKING HRS.	HR	200
450	ASSIST,OT,WELDER,BEYOND NORMAL HRS,ARC	38	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR WELDER FOR WORKING BEYOND NORMAL WORKING HRS.	HR	200
451	ASSIST,OT,RIGGER,BEYOND NORMAL HRS	34	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:OVERTIME CHARGES FOR RIGGER FOR WORKING BEYOND NORMAL WORKING HRS.	HR	400
452	ASSIST,OT,HELPER,BEYOND NORMAL HRS	34	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:OVERTIME CHARGES FOR HELPER FOR WORKING BEYOND NORMAL WORKING HRS.	HR	500
453	ASSIST,OT,FITTER,BEYOND NORMAL HRS	34	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:OVERTIME CHARGES FOR FITTER FOR WORKING BEYOND NORMAL WORKING HRS.	HR	200
454	ASSIST,OT,FABRICATOR / GRINDER MAN, BEYOND NORMAL HRS	53	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:OVERTIME CHARGES FOR FABRICATOR FOR WORKING BEYOND NORMAL WORKING HRS.	HR	100
455	ASSIST,OT,SUPERVISOR,BEYOND NORMAL HRS	38	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:OVERTIME CHARGES FOR SUPERVISOR FOR WORKING BEYOND NORMAL WORKING HRS.	HR	100
456	ASSIST,OT,MACHINIST,BEYOND NORMAL HRS	37	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR MACHINIST FOR WORKING BEYOND NORMAL WORKING HRS.	HR	400
457	ASSIST,OT,ROTARY TECHNICIAN WITH TOOLS, ,BEYOND NORMAL HRS	58	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR ROTARY TECHNICIAN FOR WORKING BEYOND NORMAL WORKING HRS.	HR	400
458	ASSIST,OT, IBR WELDER ALONG WITH HOLDER AND SCREEN, BEYOND NORMAL HRS	69	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR IBR WELDER FOR WORKING BEYOND NORMAL WORKING HRS.	HR	100
459	ASSIST,CHARGES,WELDER,IN,NIGHT/ODD,HRS	38	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:CHARGES FOR WELDER FOR WORKING IN ODD / NIGHT HOURS	HR	100
460	ASSIST, CHARGES, GASCUTTER, IN, NIGHT/ODD,HRS	45	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:CHARGES FOR GAS CUTTER FOR WORKING IN ODD / NIGHT HOURS	HR	100
461	ASSIST, CHARGES,FITTER,IN,NIGHT/ODD,HRS	39	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: CHARGES FOR FITTER FOR WORKING IN ODD / NIGHT HOURS	HR	100
462	ASSIST, CHARGES,RIGGER,IN,NIGHT/ODD,HRS	39	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: CHARGES FOR RIGGER FOR WORKING IN ODD / NIGHT HOURS	HR	200
463	ASSIST, CHARGES,HELPER,IN,NIGHT/ODD,HRS	39	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: CHARGES FOR HELPER FOR WORKING IN ODD / NIGHT HOURS	HR	500
464	ASSIST, CHARGES, FABRICATOR / GRINDER MAN, NIGHT/ODD,HRS	57	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:CHARGES FOR FABRICATOR FOR WORKING IN ODD / NIGHT HOURS	HR	100
465	ASSIST, CHARGES,SPRVSR,IN,NIGHT/ODD,HRS	39	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS:CHARGES FOR SUPERVISOR FOR WORKING IN ODD / NIGHT HOURS	HR	100
466	ASSIST,CHARGES,MACHINIST,NIGHT/ODD HRS	38	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR MACHINIST FOR WORKING IN NIGHT/ODD HRS	HR	250
467	ASSIST,CHARGES, ROTARY TECHNICIAN, NIGHT/ODD HRS	48	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR ROTARY TECHNICIAN FOR WORKING IN NIGHT/ODD HRS	HR	200
468	ASSIST,CHARGES, IBR WELDER,NIGHT/ODD HRS	40	ASSISTANCE IN EXECUTION OF MECHANICAL JOBS: OVERTIME CHARGES FOR IBR WELDER FOR WORKING IN NIGHT/ODD HRS	HR	100

PM OF CENTRIFUGAL PUMP		PM Job includes-		
		1.Removeal & refitting of Coupling guard		
		2.Check free rotation of the pump		
		3.Looseness: Visual & Manual Check tightness of the bolts of the casing foundation		
		4.Check tightness of the Grub screw of the thrower		
		5.Clean Breather		
		6.Visually check for wear, damage, rust, paint		
		7.Tighten & grease all M.S. Fasteners		
		8.Check piping support clamps bolt tightness		
		9.Check coupling Condition for bolts tightness & any physical damage (without dismantling)		
		10.Check the oil quality, replace if required, check oil inlet tube for choking		
		11.Check, adjust, replace gland (pumps with gland packing)		
		12.Check quantity of sealing oil in the seal oil pot for API plan 52/53 wherever applicable. Drain oil from the drain plug. Clean gauge glass if found dirty. Replace / top up as reqd.		
		13.Clean strainer in the seal flushing line & check flushing line for any choking		
		14.Check cooling water flow & attend leak if any. Clean/flush cooler & cooling water lines		
		15.Check for cleanliness & House keeping around the pump.		
		16.Check shaft deflection / play.		
		17.Check alignment with Laser (without coupling)		
469	PM OF CENT PUMP UPTO 5 KW	25	EA	42
470	PM OF CENT PUMP >5 TO 18.5 KW	29	EA	34
471	PM OF CENT PUMP >18.5 TO 55 KW	30	EA	34
472	PM OF CENT PUMP >55 TO 110 KW	29	EA	21
473	PM OF CENT PUMP >110 TO 220 KW	30	EA	16
474	PM OF CENT PUMP >220 TO 550 KW	30	EA	3
475	PM OF CENT PUMP >550 TO 1100 KW	31	EA	11
476	PM OF CENT PUMP >1100 TO 1800 KW	32	EA	7
477	PM OF CENT PUMP >1800 TO 3000 KW	32	EA	7
PM OF RECIPROCATING/METERING/DIAPHRAGM PUMP		PM Job include		
		1.Check gland leakage. Rectify if any		
		2.Check piping spring supports.		
		3.Ensure stuffing box drain outlet in waste drum.		
		4.Remove coupling guard		
		5.General visual check,wear,damage,rust,paint		
		6.Check coupling condition for any crack: Holes: Bolts: Others.Motor to GB: & GB to pump		
		7.Check nitrogen pressure in discharge dampener.Recharge if required		
		8.Visual Check the oil quality of gearbox,packing & pump.		
		9.Clean packing oil drain line & drain chamber		
		10.Grease: All M.S. fasteners		
		11.Clean suction strainer		
		12.Clean lube oil filters & breathers		
		13.Check for cleanliness & house keeping around the equipment		
478	PM OF RECIP PUMP UPTO 5 KW	26	EA	61
479	PM OF RECIP PUMP >5 TO 18.5KW	29	EA	8
480	PM OF RECIP PUMP 118 KW	23	EA	2
PM OF SCREW, GEAR PUMP		Job include:		
		1.Check tightness of foundation bolts		
		2.Check coupling general condition for crack: holes: bolts:others (without dismantling)		
		3.Check pump seal for any leakage		
		4.Check free rotation of the pump		
		5.Check pipe line for any leakage		
		6.Check piping supports for proper clamping		
		7.Check pressure regulation valve, reset if required		
		8.Check /clean suction strainer		
		9.Tighten and grease all MS fasteners		
		10.Visual check wear: damage: rust: paint condition: etc		
		11.Ensure fixing of safety guards		
		12.Check for cleanliness & house keeping around the equipment.		
481	PM OF SCREW/GEAR PUMP UPTO 5 KW	31	EA	10
482	PM OF SCREW/GEAR PUMP >5 TO 18.5KW	34	EA	10
483	PM OF SCREW/GEAR PUMP >18.5KW TO 55 KW	38	EA	10
PM OF COOLING TOWER FAN		Job include:		
		1.Obtain oil samples & send for analysis if required by EIC.Replace if reqd synchronised with lube-test sched		
		2.Inspect couplings condition for crack: holes: bolts: others		
		3.Check blade angle / tracking of blade.		
		4.Check foundation bolts tightness of motor & gearbox		
		5.Check freeness of fan by rotating motor shaft		
		6.Open gear box inspection window & inspect the internals.		
		7.Check hub bolts tightness, use torque wrench		
		8.Check transmission shaft condition & report		
		9.Check oil level of gear box & top up if required, attend oil leak if any.		
		10.Clean breather		
		11.Check / Tighten gear box foundation bolts.		
		12.Grease all m.s. fasteners		
		13.Check for any general crack: wear: damage: rust: paint		
		14. Ensure fixing of safety guards		
		15.Check fan hood condition		
484	PM OF CT FANS	13	EA	15
485	ALIGNMENT OF CT GB WITH MOTOR	29	EA	5
486	REPLACEMENT OF CT GEAR BOX	26	EA	2
487	SHAFT REPLACEMENT OF CT	23	EA	2
488	HUBS/BLADES REPACEMENT OF CT	28	EA	3
489	BLADE ANGLE CHECKING/SETTING	28	EA	24
490	CT SUMP SCREEN CLEANING	23	EA	7
PM OF FIN FAN COOLER		Job includes-		
		1.Clean equipment from oil and dirt & surrounding platform		
		2.Check freeness of fan by rotating the shaft with hand		
		3.Check tightness of all M.S. fasteners of plummer blockbearing pedestal, motor base and then greased		
		4.Check the condition of fan blades and angles		
		5.Grease the bearings of plummer block		
		6.Check the equipment for any crack, damage		
		7.Check the pulley condition, belt tension, belt condition and alignment. Adjust the belt tension and correct the alignment if required.		
		8.Check the condition of safety guard over fan & pulleys		
491	PM OF FIN FAN COOLER UPTO 30 KW	31	EA	4

PM OF TANK MIXER/AGITATORS			Job Includes- 1.Remove Coupling Guard. 2.Check coupling condition for tightness, alignment & pulley condition, as applicable. 3.Check tightness of foundation bolts of Motor. 4.Check spring tension of tie rod & adjust if required. 5.Check & clean breather. 6.Check Agitators seal for any leakage and repalce if required. 7.Tighten: and grease: all M.S. Fasteners. 8.Ensure fixing of all safety guards.		
492	PM OF AGITATORS UPTO 5 KW	25		EA	10
493	PM OF AGITATORS ABOVE 5 KW UPTO 18.5 KW	39		EA	2
PM OF LOBE TYPE BLOWER			Job Includes- 1.Remove coupling guard 2.Check freeness of blower lobes by rotating motor shaft 3.Check coupling condition for any crack,holes,bolts,other, if it is belt drive check belt condition,tightness,pulley conditionand alignment of pulley 4.Check and clean breather 5.Inspect and clean suction filter 6.Visual Check quality of lube oil and replace if required 7.Check tightness of motor/blower foundation bolts 8.Check piping spring,sliding,clamp,supports 9.Grease all M.S. fasteners 10.Check in general for crack,wear,damage and paint 11.Ensure fixing of all safety guards 12.Check silencer and hood bolts for looseness 13.Check ventilation fan 14.If Gear box is used-check oil level,oil quality,leake & abnormal noise. Replace / Top up as required.		
494	PM OF LOBE BLOWER UPTO 7.5 KW	29		EA	4
495	PM OF LOBE BLOWER >7.5 KW UPTO 22.5 KW	38		EA	2
496	PM OF LOBE BLOWER >22.5 KW UPTO 45 KW	37		EA	1
497	PM OF LOBE BLOWER >45 KW UPTO 100 KW	36		EA	1
498	PM OF LOBE BLOWER >100 KW UPTO 290 KW	37		EA	1
PM OF CENTRIFUGAL FAN/BLOWER			Job Includes: 1.Remove coupling guard. 2.Check coupling condition for crack,holes,bolts,other: if it is belt drive, check belt condition, tightness, pulley condition and alignment. 3.Check freeness of blower by rotating motor shaft by hand. 4. Check and grease the bearings. 5.Check tightness of motor, blower, foundation bolts 6.Inspect and clean suction, discharge filters 7.Check fan condition and clean it. 8. Ensure proper fixing of the casing drain 9.Check casing for any internal corrosion / damage 10.Check inlet dampner/vanes/linkage functioning & Grease if required for passing, proper operation. 11.Check spring, sliding, clamp, supports. 12.Check condition of expansion joint / bellow in discharge line & report condition replace / top up. 13.Grease all M.S. fasteners 14.Visual check, wear, damages, paint. 15. Ensure fixing of all safety guards		
499	PM OF FANS/BLOWERS UPTO 5 KW	28		EA	2
500	PM OF FANS/BLOWERS >5 TO 18.5 KW	32		EA	2
501	PM OF FANS/BLOWERS >18.5 TO 55 KW	34		EA	2
502	PM OF FANS/BLOWERS >55 TO 110 KW	33		EA	2
503	PM OF FANS/BLOWERS >110 TO 220KW	32		EA	2
504	PM OF FANS/BLOWERS >220 TO 550 KW	33		EA	2
505	PM OF FANS/BLOWERS >550 TO 1100 KW	34		EA	2
506	PM OF FANS/BLOWERS >1100 TO 1800 KW	35		EA	2
PM OF OIL CENTRIFUGE			Job include: 1.Clean Bowl Assembly 2.Check for any leakages 3.Check oil level in eqpt. 4.Check Motor-centrifuge coupling 5.Check gears for wear & tear 6.Check water seal 7.Clean eqpt. / frame & surrounding 8.Check trolley wheels & grease on while centrifuge is mounted (if applicable)		
507	PM OF OIL CENT. UPTO 30 KW	26		EA	2
508	CENTRIFUGE MODE CHANGE WATER TO SEDIMENTS AND VICE VERSA	56		EA	24
PM OF DIESEL ENGINE			Job include: 1. Thoroughly clean equipment base etc. from oil 2. Check tightness of foundation bolts, exhaust manifold & turbo charger, bearing housing bolts, grease all m.s.fastners 3. Check lub oil system for level and leakage if any. 4. Check inlet air flow filter,by-pass filter and fuel filter,L.O. Filter if required replaced it. 5. Check and clean jacket cooling water inlet strainer. 6. Check radiator for any leakage and damage. 7. Check cooling system for any leak hose condition, coolant level and coolant pump. 8. Check air intake system for any leak, piping and it's connection and piping supports/clamps 9. Check fuel system for leak fuel level,governor linkage,fuel lines & its connections and fuel transfer pump. 10. Check exhaust system for leak exhaust restrictions and drain condensate trap 11. Check coupling condition, coupling bolts. 12. Clean breather. 13. Check for any general crack, wear, damage, rust, paint condition etc. 14. Ensure fixing of safety guards. 15. Battery condition : battery fluid level, check voltage,apply petroleum jelly at terminals.		
509	PM OF DIESEL ENGINE 450 KW	26		EA	4
510	PM OF DIESEL ENGINE 2.5 MW	26		EA	3
PM OF ROTARY SCRAPPER			1.Opening of manways 2.Removal of old grease from gear assembly. 3.Application of fresh grease to gear assembly. 4.Filling of grease in Hand grease pump. 5.Checking/Cleaning of connecting tubes from hand grease pump to rotary scrapper. 6.Inspection of rotary scrapper arms. 7.inspection of rotary scrapper blades and checking of blade clearnces. 8.Inspection of hydraulic coupling,oil level checking,replacement/charging of oil.		
511	PM OF ROTARY SCRAPPER 16.1 KW	29		EA	2
512	PM OF ROTARY SCRAPPER GREASE PUMP 0.5 KW	40		EA	4

PM OF BUCKET SUPPORT SYSTEM			1.Inspection of wire rope. 2.Removal of old grease/lube oil, if applicable. 3.Application of fresh grease/lube oil, if applicable. 4.Inspection of chain. 5.Inspection/replacement of hose connection. 6.Inspection of hydraulic coupling,oil level checking,replacement/charging of oil. 7.Inspection of timing belt and replacement, if required.		
513	PM OF ROTARY MECHANISM FOR BSS 4.75 KW	38		EA	4
514	PM OF HOISTING MECHANISM FOR BSS 0.37 KW	40		EA	4
PM OF STEAM TURBINE			Job include: 1.Check free rotation of the steam turbine. 2.Check foundation bolt tightness of the turbine & gearbox. 3.Visually check for any leakage of lube oil & steam. 4.Check trip system. 5.Flush governor & check for any leakage. 6.Check Governing system arms linkages for freeness 7.Check oil ring for its rotation from top port. 8.Check control valve spindle for its freeness. 9.Check coupling condition for any crack, wear, damage, rust, paints etc.(Turbine to gb & gb to pump) 10.Check cold setting of the spring hanger. 11.Check auxiliary l.o. pump coupling. 12.Check stop valve for gland leakage. 13.Clean base plate area. 14.Clean & check bearing cooling water lines & flow meter. 15.Cleaning of equipment & it surrounding.		
515	PM OF STEAM TURB 30 KW	22		EA	1
516	PM OF STEAM TURB 55 KW	22		EA	1
517	PM OF STEAM TURB 90 KW	22		EA	2
518	PM OF STEAM TURB 730 KW	23		EA	2
519	PM OF STEAM TURB 1218 KW	24		EA	1
520	PM OF STEAM TURB 1451 KW	24		EA	1
521	PM OF STEAM TURB 1573 KW	24		EA	1
522	PM OF STEAM TURB 1602 KW	24		EA	1
523	PM OF STEAM TURB 1844 KW	24		EA	1
PM OF GEAR BOX			Job Includes: 1.Check oil level,ckeck oil quality 2.Send oil for analysis if required by EIC 3. Check freeness of operation 4.Open inspection cover & condition of gears visually 5.Cleaning of equipments,drain pipes etc.breather cap 6.Check oil piping & oil flow 7.Check backlash if required and as advised by EIC.		
524	PM OF GEAR BOX UPTO 5 KW	24		EA	10
525	PM OF GEAR BOX >5 TO 18.5KW	27		EA	10
526	PM OF GEAR BOX >18.5 TO 55KW	28		EA	10
527	PM OF GEAR BOX 5015 KW (B-10-P-1001A/B)	39		EA	2
528	PM OF GEAR BOX 3430 KW (B-41-PK-0001-GB-1 & 0002-GB-1)	54		EA	2
529	PM OF GEAR BOX 1850 KW (B56-P-0501D).ACT	40		EA	1
530	PM OF GEAR BOX 1220 KW (B55-P-0501C-).UCT	41		EA	1
531	PM OF GEAR BOX 1600 KW (B10-7001B).BFW-AMMONIA	46		EA	1
532	PM OF GEAR BOX 1600 KW (B-10-K-2001/2002).JD/FD FAN	51		EA	2
533	PM OF GEAR BOX 204 KW (B-55-F-0501A-F).UCT-CT FAN	49		EA	6
534	PM OF GEAR BOX 278 KW (B-56-F-0501A-I).ACT-CT FAN	49		EA	9
PM OF VERTICAL SUBMERSIBLE PUMP			Job Include : 1.Check free rotation of the pump 2.Looseness: Visual & Manual Check tightness of the bolts of the casing foundation 3.Preventive maintenance should be carried out as per PM Checklist. 4.Check tightness of fasteners.		
535	PM OF VERT SUBMERS PUMP UPTO 10 KW	34		EA	5
536	PM OF VERT SUBMERS PUMP >10 TO 20 KW	36		EA	5
537	PM OF VERT SUBMERS PUMP >20 TO 45 KW	36		EA	5
538	PM OF VERT SUBMERS PUMP >45 TO 90 KW	36		EA	2
539	PM OF VERT SUBMERS PUMP >90 TO 160 KW	37		EA	2
PM OF RECIPROCATING COMPRESSORS			Job Include : 1.Preventive maintenance scope of Reciprocating Compressors shall include but not limited to lube oil checking/make-up/replacement along with maintenance on lube oil system (Filter cleaning/replacement, lube oil pump inspection & its coupling inspection for any damage, replacement if required), foundation bolt checking/tightening, Coupling inspection for any damage, cleaning/inspection of overall equipment etc in accordance to PM task list. 2.Unit of Measurement shall be per EACH equipment with varying power ratings.		
540	PM OF RECIP COMPR UPTO 45 KW	28		EA	2
541	PM OF RECIP COMPR UPTO >45 TO 110KW	35		EA	1
542	PM OF RECIP COMPR >110.KW TO 460KW	34		EA	1
PM OF CENTRIFUGAL COMPRESSORS			Job Include : 1.Scope shall include Centrifugal Compressors of Single stage & Integral gear type. 2.Preventive maintenance scope of Centrifugal Compressors shall include but not limited to lube oil checking/make-up/replacement along with maintenance on lube oil system (Filter cleaning/replacement, lube oil pump inspection & its coupling inspection for any damage, replacement if required), primary, secondary & isolation filters cleaning/replacement, foundation bolt checking/tightening, Coupling inspection for any damage, cleaning of overall equipment etc in accordance to PM task list. 3.Unit of Measurement shall be per EACH equipment with varying power ratings.		
543	PM OF CENTR COMPR 540 TO 700 KW	31		EA	3
PM OF SCREW COMPRESSORS			Job Include : 1.Preventive maintenance scope of Screw, Gear, Vane type Compressors shall include but not limited to lube oil checking/make-up/replacement along with maintenance on lube oil system (Filter cleaning/replacement, lube oil pump inspection & its coupling inspection for any damage, replacement if required), foundation bolt checking/tightening, Coupling inspection for any damage, cleaning/inspection of overall equipment etc in accordance to PM task list. 2.Unit of Measurement shall be per EACH equipment with varying power ratings.		
544	P.M OF SCREW COMP 42 KW	23		EA	1
545	P.M OF SCREW COMP 229 KW	24		EA	2
PM OF EXPANSION TURBINE			Job Include : 1.To collect the PM Checklist from the EIC to carry out the specified Job. 2.To record required data for history of equipment as per instruction by EIC. 3.Dismantling of equipment parts without damage to the equipment or its other parts.		
546	PM OF EXPANSION TURBINE.	24		EA	1
547	PM OF EOT	9	Job Include : Preventive maintenance of EOT includes inspection of gear box, pulley, wire rope,coupling, rope drum,stopper,rail, brakes etc.	EA	10
DECOUPLING & COUPLING			Job Include: Removal & Reinstallation of Coupling guard, Spacer Removal and Reinstallation.		



548	DUPLG & CUPLG UPTO 5 KW	23		EA	47
549	DUPLG & CUPLG >5 TO 18.5KW	26		EA	38
550	DUPLG & CUPLG >18.5 TO 55KW	27		EA	38
551	DUPLG & CUPLG >55 TO 110KW	26		EA	23
552	DUPLG & CUPLG >110 TO 220KW	27		EA	18
553	DUPLG & CUPLG >220 TO 550 KW	28		EA	4
554	DUPLG & CUPLG >550 TO 1100 KW	29		EA	12
555	DUPLG & CUPLG >1100 TO 1800 KW	30		EA	8
556	DUPLG & CUPLG >1800 TO 3000 KW	30		EA	8
ALIGNMENT			Rates are for Cold alignment & rate for Hot and Cold alignment will be measured as 1.25 times of only Cold alignment. Job includes: Removal and reinstallation of coupling guard(s), Spacer removal & reinstallation/replacement, Alignment Checking and Correction		
557	COLD ALIGN UPTO 5 KW	20		EA	47
558	COLD ALIGN >5 TO 18.5KW	23		EA	38
559	COLD ALIGN >18.5 TO 55KW	24		EA	38
560	COLD ALIGN >55 TO 110KW	23		EA	23
561	COLD ALIGN >110 TO 220KW	24		EA	18
562	COLD ALIGN >220 TO 550 KW	25		EA	4
563	COLD ALIGN >550 TO 1100 KW	26		EA	12
564	COLD ALIGN >1100 TO 1800 KW	27		EA	8
565	COLD ALIGN >1800 TO 3000 KW	27		EA	8
COUPLING HUB REMOVAL & INSTALLATION(Driver/Driven)			Job includes: Removal and reinstallation of coupling guard(s), Spacer removal & reinstallation/replacement, Removal & reinstallation of coupling Hub		
566	CUPLG HUB REM (DVR/DVN) UPTO 5 KW	33		EA	5
567	CUPLG HUB REM (DVR/DVN) >5 TO 18.5KW	36		EA	5
568	CUPLG HUB REM (DVR/DVN) >18.5 TO 55KW	37		EA	5
569	CUPLG HUB REM (DVR/DVN) >55 TO 110KW	36		EA	2
570	CUPLG HUB REM (DVR/DVN) >110 TO 220KW	37		EA	2
571	CUPLG HUB REM (DVR/DVN) >220 TO 550 KW	38		EA	2
572	CUPLG HUB REM (DVR/DVN) >550 TO 1100 KW	39		EA	1
573	CUPLG HUB REM (DVR/DVN) >1100 TO 1800 KW	40		EA	1
GLAND PACKING JOB			Job Include: Replacement and tightening of gland packing.		
574	GLAND & PKNG >5 TO 18.5KW	25		EA	10
575	GLAND & PKNG >18.5 TO 55KW	26		EA	10
576	GLAND & PKNG >55 TO 110KW	25		EA	10
577	GLAND & PKNG >110 TO 220KW	26		EA	5
578	GLAND & PKNG >220 TO 550 KW	27		EA	5
579	GLAND & PKNG >550 TO 1100 KW	28		EA	2
580	GLAND & PKNG >1100 TO 1800 KW	29		EA	2
PULLEY REMOVAL (DRIVE/DRIVEN) Pulley removal for Fin Fans / Tank mixers / Cooling Tower Fans / Compressors (Drive Eqpt).			Job includes: 1. Removal & reinstallation of pulley guards. 2. Removal & replacement of drive belts. 3. Alignment of Drive and driven pulleys. 4. Adjustment of belt tension. 5. Removal & reinstallation /replacement of pulley(s)		
581	PULLEY REM DRV/DRVN >5 TO 18.5KW	32		EA	2
582	PULLEY REM DRV/DRVN >18.5 TO 55KW	33		EA	2
583	PULLEY REM DRV/DRVN >55 TO 110KW	32		EA	2
584	PULLEY REM DRV/DRVN >110 TO 220KW	33		EA	1
BELT REPLACEMENT JOB			Job includes: 1. Removal & reinstallation of pulley guards. 2. Removal & replacement of drive belts. 3. Alignment of Drive and driven pulleys. 4. Adjustment of belt tension.		
585	BELT REPL UPTO 18.5KW	21		SET	5
586	BELT REPL >18.5 TO 55KW	23		SET	5
587	BELT REPL >55 TO 110KW	22		SET	2
LIFTING AND SHIFTING OF DRIVER/DRIVEN			1. Dis-Connection of all inter connecting pipelines, other auxiliary pipelines and foundation bolt. 2. Removal from position and shifting to workshop/specified location as per direction of EIC. 3. Shifting after repairing / new driver and placing in position and connection of all pipings and foundation bolts.		
588	LFTG&SFTG OF DVR/DRVN >5 TO 18.5KW	34		EA	20
589	LFTG&SFTG OF DVR/DRVN >18.5 TO 55KW	35		EA	15
590	LFTG&SFTG OF DVR/DRVN >55 TO 110KW	34		EA	10
591	LFTG&SFTG OF DVR/DRVN >110 TO 220KW	35		EA	4
592	LFTG&SFTG OF DVR/DRVN >220 TO 550 KW	36		EA	4
593	LFTG&SFTG OF DVR/DRVN >550 TO 1100 KW	37		EA	1
594	LFTG&SFTG OF DVR/DRVN >1100 TO 1800 KW	38		EA	1
595	LFTG&SFTG OF DVR/DRVN >1800 TO 3000 KW	38		EA	1
CENTRIFUGAL PUMP - SINGLE STAGE Replacement of Casing Gasket			Job Includes : 1. Removal & Re-installation of pump assembly from pump casing including lifting / shifting to worksite / workshop and back. 2. Replacement of casing gasket 3. Removal and re-installation of coupling guard. 4. Removal and re-installation of spacer. 5. Alignment checking and correction after assembly.		
596	CASING GSKT REPL SINGLE STG >5 TO 18.5KW	40		EA	1
597	CASING GSKT REPL SINGLE STG >18.5 TO 55KW	41		EA	1
598	CASING GSKT REPL SINGLE STG >55 TO 110KW	40		EA	1
599	CASING GSKT REPL SINGLE STG >110 TO 220KW	41		EA	1
CENTRIFUGAL PUMP - SINGLE STAGE Mechanical Seal replacement.			Job Includes : 1. Removal & Re-installation of pump assembly from pump casing. 2. Replacement of casing gasket. 3. Dismantling & Reassembly of impeller assembly including cleaning, inspection, removal & reinstallation/ replacement of components with necessary measurement and checks for dimension, clearance, run out etc. 4. Replacement of seal cartridge or removal & reinstallation including reconditioning of seal assembly in case of non cartridge seals. 5. Removal and re-installation of coupling guard. 6. Removal and re-installation of spacer. 7. Alignment checking and correction after assembly.		
600	M/SEAL REPL SINGLE STG >5 TO 18.5KW	35		EA	40
601	M/SEAL REPL SINGLE STG >18.5 TO 55KW	36		EA	40
602	M/SEAL REPL SINGLE STG >55 TO 110KW	35		EA	30
603	M/SEAL REPL SINGLE STG >110 TO 220KW	36		EA	10

CENTRIFUGAL PUMP - SINGLE STAGE Complete Ovehauling			Job includes: 1) Removal and reinstallation of coupling guard(s), Spacer removal and reinstallation/ replacement, alignment checking and correction including hot alignment wherever applicable. 2)Removal & Re-installation of pump assembly from pump casing including lifting / shifting to worksite / workshop and back. 3) Replacement of casing gasket. Dismantling & Reassembly of impeller assembly including cleaning, inspection, removal & reinstallation/replacement of components with necessary measurement and checks for dimension, clearance, run out etc. 4) Replacement of seal cartridge or removal & reinstallation including reconditioning of Seal assembly in case of non cartridge seals.		
604	O/H SNGL STG CENT.PUMP >5 TO 18.5KW	35		EA	5
605	O/H SNGL STG CENT.PUMP >18.5 TO 55KW	36		EA	10
606	O/H SNGL STG CENT.PUMP >55 TO 110KW	35		EA	5
607	O/H SNGL STG CENT.PUMP >110 TO 220KW	36		EA	2
CENT. PUMP-SINGLE/MULTI STAGE BETWEEN BRG(H) DE/NDE Bearing replacement.			Job includes: 1.Removal, Inspection & replacement of housing seal(s). 2.Removal, Inspection & replacement of bearing(s) 3.Removal and re-installation of coupling guard. 4.Removal and re-installation of spacer. 5.Driver side Coupling hub removal and re-installation. 6.Alignment checking and correction after assembly.		
608	DE/NDE BRG REPL MULTI STG >5 TO 18.5KW	38		EA	10
609	DE/NDE BRG REPL MULTI STG >18.5 TO 55KW	39		EA	20
610	DE/NDE BRG REPL MULTI STG >55 TO 110KW	38		EA	10
611	DE/NDE BRG REPL MULTI STG >110 TO 220KW	39		EA	5
612	DE/NDE BRG REPL MULTI STG >220 TO 550 KW	40		EA	4
613	DE/NDE BRG REPL MULTI STG >550 TO 1100KW	40		EA	4
614	DE/NDE BRG REPL MULTI STG >1100 TO 1800 KW	42		EA	2
615	DE/NDE BRG REPL MULTI STG>1800 TO 3000 KW	41		EA	2
CENT. PUMP-SINGLE/MULTI STAGE BETWEEN BRG(H) DE/NDE Mechanical Seal replacement.			Job includes- 1.Removal, Inspection & replacement of housing seal(s). 2.Removal, Inspection & replacement of bearing(s). 3.Removal and re-installation of coupling guard. 4.Removal and re-installation of spacer. 5.Driver side Coupling hub removal and re-installation. 6.Alignment checking and correction after assembly.		
616	DE/NDE M/SEAL REPL MLT STG >5 TO 18.5KW	39		EA	10
617	DE/NDE M/SEAL REPL MLT STG >18.5 TO 55KW	40		EA	10
618	DE/NDE M/SEAL REPL MLT STG >55 TO 110KW	39		EA	15
619	DE/NDE M/SEAL REPL MLT STG >110 TO 220KW	40		EA	5
620	DE/NDE M/SEAL REPL MLT STG >220 TO 550 KW	41		EA	2
621	DE/NDE M/SEAL REPL MLT STG>550 TO 1100KW	40		EA	4
622	DE/NDE M/SEAL REPL MLT STG >1100 TO 1800 KW	43		EA	4
623	DE/NDE M/SEAL REPL MLT STG>1800 TO 3000 KW	42		EA	4
CENTRIFUGAL PUMP - MULTI STAGE BETWEEN BRG(H) Complete Ovehauling			Job Includes: 1.Removal & Reinstallation of Coupling gaurd(s). 2.Spacer removal and installation/replacement. 3.Alignment checking & correction. 4.Removal & reinstallation/replacement of coupling hub. 5.Removal and reinstallation of DE & NDE bearing housing assembly. 6.Inspection of bearing(s), adjustment of thrust bearings including any replacement if required. 7.Inspection of housing seal(s) and seat on shaft, corrective repair if any and repalcement of Seal(s). 8.Replacement of seal cartridge and shaft sleeve, balance drum (if applicable). 9.Replacement of DE & NDE Casing Gasket. 10.Replacement of seal cartridge and sleeve. 11.Capital repairs of pump including inspection of all internals with replacement as required, inspection with replacement if required of rotor.		
624	O/H OF CP MLT STG(H) >18.5 TO 55KW	35		EA	1
625	O/H OF CP MLT STG(H) >55 TO 110KW	34		EA	1
626	O/H OF CP MLT STG(H) >110 TO 220KW	35		EA	1
627	O/H OF CP MLT STG(H) >220 TO 550 KW	36		EA	1
628	O/H OF CP MLT STG(H) >550 TO 1100 KW	37		EA	1
629	O/H OF CP MLT STG(H) >1100 TO 1800 KW	38		EA	1
CENTRIFUGAL PUMP-SINGLE STAGE VERTICAL Mechanical Seal replacement.			Job includes : 1.Removal & reinstallation of pump assembly from pump casing. 2.Replacement of casing Gasket. 3.Removal & reinstallation/replacement of impeller and/or impeller bolt including gasket/O-ring. 4.Removal & reinstallation of mechanical seal assembly including complete dismantling & reassembly, inspection & repair/replacement of components, inspection & replacement (if reqd) of shaft sleeve, replace of all gaskets/O-rings.		
630	M/SEAL REPL OF SNGL STG(V)>5 TO 18.5KW	38		EA	3
631	M/SEAL REPL OF SNGL STG(V) >18.5 TO 55KW	40		EA	5
632	M/SEAL REPL OF SNGL STG(V) >55 TO 110KW	39		EA	2
CENTRI PUMP-SINGLE STAGE VERTICAL Bearing replacement.			Job includes: 1.Removal, reinstallation of pump assembly from pump casing. 2.Replacement of Casing Gasket. 3.Removal, reinstallation of impeller assembly including cleaning, inspection, clearance checking. 4.Removal and installation of Seal Cartridge. 5.Removal, inspection and replacement of housing seal. 6.Removal, inspection and replacement of Bearings with all checks.		
633	BRG REPL SNGL STG(V)>5 TO 18.5KW	32		EA	6
634	BRG REPL SNGL STG(V) >18.5 TO 55KW	34		EA	10
635	BRG REPL SNGL STG(V) >55 TO 110KW	33		EA	2
CENTRIFUGAL PUMP-SINGLE STAGE VERTICAL Complete Overhauling			Job includes : 1.Removal & Reinstallation of Coupling gaurd(s). 2.Removal & Reinstallation / Replacement of coupling spacer. 3.Checking & correction of alignment between driver & Pump. 4.Removal & reinstallation of pump assembly from pump casing 5.Replacement of casing Gasket. 6.Removal & reinstallation/replacement of impeller and/or impeller bolt including gasket/O-ring. 7.Removal & reinstallation of mechanical seal assembly including complete dismantling & reassembly, inspection & repair/replacement of components, inspection & replacement (if required) of shaft sleeve,replacement of all gaskets/O-rings. 8.Removal,inspection & replacement of housing seal(s). 9.Removal,inspection & replacement of Bearing(s) with all checks. 10.Complete dismantling of pump unit, inspection & repair/replacement of bearing, oil seals,		
636	O/H OF SNGL STG(V)>5 TO 18.5KW	30		EA	2
637	O/H OF SNGL STG(V) >18.5 TO 55KW	32		EA	2
638	O/H OF SNGL STG(V) >55 TO 110KW	31		EA	2

CENTRIFUGAL PUMP-MULTI STAGE (V) Mechanical Seal Replacement			Job Includes : 1.Remove & reinstallation of driver spool. 2.Remove & reinstallation/replacement of bearing including replacement of gaskets/O-rings/oil seals, Vertical lift checking, adjustment (if required). 3.Remove & reinstallation of adapter piece (if required). 4.Repair/replacement of seal/cartridge seal and sleeve		
639	M/SEAL REPL MLT STG(V)>5 TO 18.5KW	34		EA	2
640	M/SEAL REPL MLT STG(V) >18.5 TO 55KW	36		EA	6
641	M/SEAL REPL MLT STG(V) >55 TO 110KW	35		EA	2
CENTRIFUGAL PUMP-MULTI STAGE (V) Complete Overhauling			Job includes : 1.Decoupling & coupling jobs including Removal & reinstallation of coupling guards. 2.Remove & reinstallation/replacement of coupling spacer 3.Remove & reinstallation/replacement of coupling Hub 4.Remove & reinstallation of driver spool 5.Remove & reinstallation/replacement of bearing incl replacement of gaskets/O-rings/oil seals. 6.Remove & reinstallation of pump assembly from vessel/pit including discharge pipe. 7.Remove & reinstallation of adapter piece if installed 8.Repair/replacement of seal/cartridge seal and sleeve 9.Complete dismantling of pump assembly, inspection of all internals with repair/replacement of components, all necessary checks for dimension & clearances including reassembly and reinstallation.		
642	O/H OF MLT STG(V)>5 TO 18.5KW	29		EA	1
643	O/H OF MLT STG(V) >18.5 TO 55KW	31		EA	2
644	O/H OF MLT STG(V) >55 TO 110KW	30		EA	1
CENTRIFUGAL PUMP-SUNDYNE. MECHANICAL SEAL REPLACEMENT-G.B SIDE AND PUMP SIDE			Job Include : 1.Remove & reinstallation of Impeller assembly Removal & reinstallation of gearbox assembly from pump casing. 2.Remove, inspection, reinstallation with leaktests of pump seal components after corrective action - single/double/tandem seal whichever installed		
645	SEAL LEAK ATTENDING SUNDYNE 55 KW	33		EA	8
CENTRIFUGAL PUMP-SUNDYNE. OVERHAULING			Job Include : 1.Remove & reinstallation of coupling guard(s). 2.Remove & reinstallation/ replacement of coupling spacer. 3.Checking & correction of alignment between driver & driven equipment. 4.Replacement of spacer,Removal & reinstallation/replacement of coupling hub. 5.Remove & reinstallation of Impeller assembly. 6.Remove & reinstallation of gearbox-seal housing assembly from pump casing. 7.Remove, inspection, reinstallation with leak tests of pump seal components after corrective action - single/double/tandem seal whichever installed. 8.Remove & reinstallation of seal housing. 9.Remove, inspection & reinstallation with leak tests of gearbox seal components after corrective action-Single/Double/Tendam seal whichever installed. 10.Complete dismantling of removed/failed gearbox-seal housing assembly, inspection of all internals including repair/replacement of components, reassembly and leak tests for all mechanical seals.		
646	O/H OF SUNDYNE PUMP 55 KW	25		EA	2
SCREW PUMP-TRIPPLE SCREW Cover gasket replacement job.			Job includes --- 1.Remove & reinstallation of end cover. 2.Replacement of casing gasket.		
647	CVR GSKT REPL TRI SCREW UPTO 5.5 KW	35		EA	1
648	CVR GSKT REPL TRI SCREW >5.5 TO 18.5KW	38		EA	1
649	CVR GSKT REPL TRI SCREW >18.5 TO 55KW	37		EA	1
650	CVR GSKT REPL TRI SCREW >55 TO 90KW	35		EA	1
SCREW PUMP-TRIPPLE SCREW DE Bearing replacement.			Job includes : Removal & reinstallation of end cover. Replacement of gasket / O-ring. Removal & replacement of seal(s) Removal & reinstallation/replacement of bearings(s)		
651	DE BRG REPL TRI SCREW UPTO 5.5 KW	33		EA	10
652	DE BRG REPL TRI SCREW >5.5 TO 18.5KW	36		EA	2
652	DE BRG REPL TRI SCREW >18.5 TO 55KW	35		EA	2
653	DE BRG REPL TRI SCREW >55 TO 90KW	33		EA	2
SCREW PUMP-TRIPPLE SCREW NDE Bearing replacement jobs.			Job Include : 1.Remove & reinstallation of end cover 2.Replacement of gasket / O-ring. 3.Remove & reinstallation/replacement of bearing(s) 4.Remove & reinstallation of time gear (if applicable).		
654	NDE BRG REPL TRI SCREW UPTO 5.5 KW	34		EA	10
655	NDE BRG REPL TRI SCREW >5.5 TO 18.5KW	37		EA	2
656	NDE BRG REPL TRI SCREW >18.5 TO 55KW	36		EA	2
657	NDE BRG REPL TRI SCREW >55 TO 90KW	34		EA	2
SCREW PUMP-TRIPPLE SCREW Mechanical Seal replacement			Job includes: 1.Remove & reinstallation of components. 2.Replacement of casing gasket 3.Remove & replacement of seal(s). 4.Job is including Bearing job.		
658	M/SEAL REPL TRI SCREW UPTO 5.5 KW	33		EA	5
659	M/SEAL REPL TRI SCREW >5.5 TO 18.5KW	36		EA	2
660	M/SEAL REPL TRI SCREW >18.5 TO 55KW	35		EA	2
661	M/SEAL REPL TRI SCREW >55 TO 90KW	33		EA	2
SCREW PUMP-TRIPPLE SCREW Overhauling			Job includes: 1.Remove and refixing of coupling guard(s) 2.Spacer removal and reinstallation / replacement 3.Alignment checking and correctionRemoval/replacement of coupling hub 4.Complete dismantling and reassembly of pump unit 5.Inspection of all internals components including repair/replacement as required.		
662	O/H OF TRI SCREW UPTO 5.5 KW	28		EA	2
663	O/H OF TRI SCREW >5.5 TO 18.5KW	31		EA	1
664	O/H OF TRI SCREW >18.5 TO 55KW	30		EA	1
665	O/H OF TRI SCREW >55 TO 90KW	28		EA	1
GEAR PUMP-EXTERNAL GEAR Oil seal / Bearing replacement			Job Include: Removal & replacement of oil seal		
666	BRG/OILSEAL REPL EX-GEAR PUMP UPTO 5 KW	39		EA	1
667	BRG/OILSEAL REPL EX-GEAR PUMP>5 TO 18.5KW	40		EA	1
GEAR PUMP-EXTERNAL GEAR OVERHAULING			Jon Include: 1.Remove and refixing of coupling guard(s) 2.Spacer removal and reinstallation/replacement 3.Alignment checking and correction 4.Remove/replacement of spacer 5.Remove/replacement of coupling hub(s) 6.Remove & replacement of oil seal Complete dismantling & reassembly of pump unit including inspection with repair/ replacement of shaft bushes, shaft(s),gear(s)		
668	O/H EX-GEAR PUMP UPTO 5 KW	26		EA	1
669	O/H EX-GEAR PUMP >5 TO 18.5KW	29		EA	1

	DIAPHRAGM PUMP Suction/Discharge valve related job		Job Include : Removal, inspection, lapping, assembling and testing of Suction / Discharge valves.		
670	SUC/DIS VLV JOB DIAPH PUMP UPTO 5.5 KW	38		EA	10
	DIAPHRAGM PUMP Diaphragm replacement		Job Include : 1.Removal of suction/discharge connection. 2.Replacement of damaged diaphragm with new diaphragm. 3.Assembly and connection of all interconnecting pipelines.		
671	DIAPH REPL OF DIAPH PUMP UPTO 5.5 KW	36		EA	20
	DIAPHRAGM PUMPOverhauling		Job Include : 1.De-coupling and dis-connection of all inter-connecting pipelines of pump and shifting to maintenance area. 2.Complete dismantling of pump. 3.Inspection and repair/replacement of suc/disch valve, seat area, bearing, diaphragm and all components of power end and fluid end. 5.Assembly of pump as per standard engineering practices. 6.Shifting of pump at location and connection of all inter connecting pipelines. 7.Alignment and coupling.		
672	O/H OF DIAPH PUMP UPTO 5.5 KW	29		EA	5
	PLUNGER PUMP Suction/Discharge valve related job		Job Include : Removal, inspection, lapping, assembling and testing of Suction / Discharge valves.		
673	SUC/DIS VLV REPL PLNGR PUMP 7.5 KW	34		EA	4
674	SUC/DIS VLV REPL PLNGR PUMP 18.5 KW	35		EA	4
675	SUC/DIS VLV REPL PLNGR PUMP 110 KW	34		EA	3
	PLUNGER PUMP Cylinder & Plunger assembly.		Job includes : 1.Removal & reinstallation of gland chamber cover (s) including replacement of gasket. 2.All necessary measurement checks like dimensions, clearances,concentricity, rod runout etc. with correction as required 3.Removal & reinstallation of plunger assbly 4.Removal & reinstallation/replacement of plunger rings 5.Removal & reinstallation/replacement of punger rider rings 6.Removal & reinstallation/replacement of plunger 7.Removal & reinstallation/replacement of plunger rod 8.Removal & reinstallation/replacement of plunger rod packing/seats including removal and reinstallation of stuffing box/gland housing.		
676	CYL/PLNGR ASSY JOB PLNGR PUMP 7.5 KW	36		EA	2
677	CYL/PLNGR ASSY JOB PLNGR PUMP 18.5 KW	37		EA	2
678	CYL/PLNGR ASSY JOB PLNGR PUMP 110 KW	36		EA	1
	PLUNGER PUMP O/H of Fluid End-		Job includes : 1.Disconnection of power end and fluid end. 2.Removal of stuffing box plunger. 3.Opening of all suction and discharge valve covers. 4.removal of all suction and discharge valve 5.Inspection and measurement of cylinder. 6.Repai/replacement of suction and discharge valve with new o-ring/gaskets. 7.Reassembly of all valve covers with new o-ring and gaskets. 8.Repacking of stuffing box with new packings. 9.Installation of plunger and stuffing box assembly. 10.Coupling of Power and Fluid End.		
679	O/H OF FLUID END PLNGR PUMP 7.5 KW	34		EA	2
680	O/H OF FLUID END PLNGR PUMP 18.5 KW	35		EA	2
681	O/H OF FLUID END PLNGR PUMP 110 KW	34		EA	2
	PLUNGER PUMP O/H of Power End-		Job includes : 1.Removal & reinstallation of all covers necessary to access the internals including replacement of all gaskets/O-rings. 2.Inspection of Crank shaft & bearings and replace (if required). 3.Removal & reinstallation of eccentre assembly including complete dismentiling & reassembly, inspection & repair/replacement of components/ gaskets/O-rings (as applicable).		
682	O/H OF POWER END PLNGR PUMP 7.5 KW	34		EA	1
683	O/H OF POWER END PLNGR PUMP 18.5 KW	36		EA	1
684	O/H OF POWER END PLNGR PUMP 110 KW	34		EA	1
	CENTRIFUGAL FANS / BLOWERS,ID/FD FAN Bearing replacement job		Job includes : 1.Dismantling and reassembly of DE/NDE Plummer block unit. 2.Removal & reinstallation/replacement of DE/NDE bearing including all seals, circlips etc.		
685	BRG REPL FANS/BLOWERS UPTO 5 KW	31		EA	5
686	BRG REPL FANS/BLOWERS >5 TO 18.5 KW	35		EA	5
687	BRG REPL FANS/BLOWERS >18.5 TO 55 KW	37		EA	5
688	BRG REPL FANS/BLOWERS >55 TO 110 KW	36		EA	5
689	BRG REPL FANS/BLOWERS >1100 TO 1800 KW	38		EA	4
	CENTRIFUGAL FANS / BLOWERS,ID/FD FAN Overhauling		Job includes : 1.Removal and refixing of coupling guard 2.Decoupling & recoupling jobs 3.Removal, inspection & reinstallation/replacement as required of bolt/pins/bushes individually or as a set 4.Alignemnt check and corrcion between driver & driven equipment 5.Removal, reinstallation/replacement of coupling hub(s) 6.Dismantling and reassembly of DE Plummer block unit 7.Removal & reinstallation/replacement of DE bearing including all seals, circlips etc. 8.Dismantling and reaseembly of NDE Plummer block unit 9.Removal & reinstallation/replacement of NDE bearing including all seals, circlips etc. 10.Removal & reinstallation of seal chamber cover 11.Removal & reinstallation/replacement of seal including inspection and measurement checks on shaft surface with correction if required. 12.Removal & reinstallation of seal chamber cover 13.Removal & reinstallation/replacement of seal including inspection and measurement checks on shaft surface with correction if required. 14.Removal & reinstallation/replacement of fan casing cover Dismentling/assembly/ replacement of fan rotor, bearings,all seals etc.		
690	O/H OF FANS/BLOWERS UPTO 5 KW	29		EA	1
691	O/H OF FANS/BLOWERS >5 TO 18.5 KW	33		EA	1
692	O/H OF FANS/BLOWERS >18.5 TO 55 KW	35		EA	1
693	O/H OF FANS/BLOWERS >55 TO 110 KW	34		EA	1
694	O/H OF FANS/BLOWERS >1100 TO 1800 KW	36		EA	1
	CENTRIFUGAL FANS / BLOWERS,ID/FD FAN		Fan damper adjustment / repairs Job Include : Fan damper adjustment / repairs.ID/FD FAN, CENTRIFUGAL FANS / BLOWERS (BETWEEN BEARINGS).		
695	DAMP ADJMT FANS/BLOWERS UPTO 5 KW	33		EA	1
696	DAMP ADJMT FANS/BLOWERS >5 TO 18.5 KW	37		EA	1
697	DAMP ADJMT FANS/BLOWERS >18.5 TO 55 KW	39		EA	1
698	DAMP ADJMT FANS/BLOWERS >55 TO 110 KW	38		EA	1
699	DAMP ADJMT FANS/BLOWERS >1100 TO 1800KW	39		EA	1

	FANS-FOR FINNED TUBE COOLERS Fan Blade Angle change job:		Job includes: 1.Inspection & adjustment of fan blade(s). 2.Inspection & Adjustment of hub. 3.Removal & Reinstallation / replacement of hub bolts. 4.Check and adjust blade tracking, gap between blade and skirt.		
700	BLADE ANGLE CHNG FIN FAN UPTO 30 KW	35		EA	2
	FANS-FOR FINNED TUBE COOLERS Replacement of fan blades and/or hubs		Job includes : 1.Removal and installation of Fan Blade. 2.Removal and installation/replacement of hub bolts. 3.Removal and installation of hub. 4.Check and adjust blade angle tracking, gap between blade and skirt.		
701	BLADE/HUB REPL FIN FAN UPTO 30 KW	33		EA	2
	FANS-FOR FINNED TUBE COOLERS Overhauling		Job includes : 1.Removal & reinstallation of pulley guards, 2.Removal & replacement of drive belts, 3.Alignment of drive and driven pulleys, 4.Adjustment of belt tension, 5.Removal & reinstallation/ replacement of pulley(s), 6.Inspection & adjustment of fan blades, 7.Inspection & adjustment of hub, 8.Removal & reinstallation/replacement of hub bolts, 9.Replacement of fan blades and/or hubs, 10.Complete dismantling & reassembly of fan assembly including inspection repair/replacement of components, bearings, seals etc.		
702	O/H OF FIN FAN UPTO 30 KW	25		EA	1
	GEAR BOX Oil seal leak attending.		Job includes: 1.Removal & reinstallation of housing top cover and /or side covers. 2.Replacement of elastomeric seals / inspection, repair or replacement of labyrinth seals.		
703	G.B OIL SEAL REPL UPTO 5 KW	27		EA	5
704	G.B OIL SEAL REPL >5 TO 18.5KW	30		EA	5
705	G.B OIL SEAL REPL >18.5 TO 55KW	31		EA	2
706	G.B OIL SEAL REPL >55 TO 90KW	29		EA	2
707	G.B OIL SEAL REPL >200 TO 300 KW	32		EA	2
708	G.B OIL SEAL REPL >1200 TO 1850 KW	34		EA	1
709	G.B OIL SEAL REPL ABOVE 1850 KW	31		EA	1
	GEAR BOX Bearing replacement.		Job includes: 1.Removal & reinstallation of housing top cover and /or side covers. 2.Replacement of elastomeric seals / inspection, repair or replacement of labyrinth seals. 3.Removal & Reinstallation / replacement of bearing(s).		
710	G.B BRG REPL UPTO 5 KW	22		EA	5
711	G.B BRG REPL >5 TO 18.5KW	25		EA	5
	G.B BRG REPL >18.5 TO 55KW	26		EA	2
713	G.B BRG REPL >55 TO 90KW	24		EA	2
714	G.B BRG REPL REPL >200 TO 300 KW	32		EA	1
715	G.B BRG REPL REPL >1200 TO 1850 KW	34		EA	1
716	G.B BRG REPL REPL ABOVE 1850 KW	31		EA	1
	GEAR BOX Babbitt bearings repair /replacement.		Job includes: 1.Removal & reinstallation of casing cover. 2.Removal, inspection, repair/replacement of bearing(s)/ bearing pad(s) thrust collar and reassembly.		
717	G.B BABBIT BRG REPL >200 TO 300 KW	34		EA	1
718	G.B BABBIT BRG REPL >1200 TO 1850 KW	36		EA	1
719	G.B BABBIT BRG REPL ABOVE 1850 KW	33		EA	1
	GEAR BOX OVERHAULING		Job includes: 1.Disconnection and connection of all inter connecting oil ,water lines etc . 2.Removal and refixing of coupling guards on input and output end. 3.De-coupling and coupling of Input and Output shaft 4.Spacer removal and reinstallation/replacement on input and output end 5.Removal & reinstallation / replacement of coupling hub. 6.Complete dismantling and reassembly of gear box. 7.Checking of gear backlash, blue matching of gear teeth, axial/radial float etc. 7.Cleaning of all components. 8.Removal & Reinstallation / replacement of bearing(s). 9.Replacement of elastomeric seals / inspection, repair or replacement of labyrinth seals. 10.Alignment of input and output shaft with connected machines.		
720	O/H OF G.B. UPTO 5 KW	21		EA	1
721	O/H OF G.B. >5 TO 18.5KW	24		EA	1
722	O/H OF G.B. >18.5 TO 55KW	25		EA	1
723	O/H OF G.B. >55 TO 90KW	23		EA	1
724	O/H OF G.B. >200 TO 300 KW	26		EA	1
725	O/H OF G.B. >1200 TO 1850 KW	28		EA	1
726	O/H OF G.B. ABOVE 1850 KW	25		EA	1
	GEAR BOX Replacement		Job Include: 1.Removal of existing Gear Box after complete dis-connection. 2.Installation of new/repai red Gear Box on foundation and complete connection.		
727	REPL OF G.B. UPTO 5 KW	22		EA	1
728	REPL OF G.B. >5 TO 18.5KW	25		EA	1
729	REPL OF G.B. >18.5 TO 55KW	26		EA	1
730	REPL OF G.B. >55 TO 90KW	24		EA	1
731	REPL OF G.B. >200 TO 300 KW	27		EA	1
732	REPL OF G.B. >1200 TO 1850 KW	29		EA	1
733	REPL OF G.B. ABOVE 1850 KW	26		EA	1
	BLOWER-TWIN LOBE Timing Gears replacement		Job includes : 1.Removal & reinstallation of end cover. 2.Replacement of casing gasket Removal & replacement of seal(s). 3.Removal & reinstallation/replacement of bearings(s). 3.Removal & reinstallation of timing gears including inspection/replacement		
734	TMNG GEAR REPL LOBE BLWR UPTO 7.5 KW	36		EA	1
735	TMNG GEAR REPL LOBE BLWR>7.5 TO 22.5 KW	39		EA	1
736	TMNG GEAR REPL LOBE BLWR>22.5 TO 45 KW	38		EA	1
737	TMNG GEAR REPL LOBE BLWR>45 TO 100 KW	37		EA	1
738	TMNG GEAR REPL LOBE BLWR>100 TO 290 KW	38		EA	1
	BLOWER-TWIN LOBE NDE bearing/Seal replacement		Job includes: 1.Dismantling and reassembling of NDE bearing cover. 2.Inspection, checking and replacement of timing gears and bearings including all measurement checks of bearing / seal seat on shaft. 3.Inspection and replacement of seal (s) including all measurement checks.		
739	NDE BRG/SEAL REPL LOBE BLWR UPTO 7.5 KW	39		EA	2
740	NDE BRG/SEAL REPL LOBE BLWR>7.5 TO 22.5KW	41		EA	2
741	NDE BRG/SEAL REPL LOBE BLWR>22.5 TO 45 KW	41		EA	2
742	NDE BRG/SEAL REPL LOBE BLWR>45 TO 100 KW	40		EA	2
743	NDE BRG/SEAL REPL LOBE BLWR>100 TO 290KW	40		EA	2

BLOWER-TWIN LOBE DE bearing/Seal replacement			Job includes: 1.Dismantling and reassembling of DE bearing cover. 2.Inspection, checking and replacement of gears and bearings including all measurement checks of bearing / seal seat on shaft. 3.Inspection and replacement of seal (s) including all measurement checks.		
744	DE BRG/SEAL REPL LOBE BLWR UPTO 7.5 KW	38		EA	2
745	DE BRG/SEAL REPL LOBE BLWR>7.5 TO 22.5 KW	41		EA	2
746	DE BRG/SEAL REPL LOBE BLWR>22.5 TO 45 KW	40		EA	2
747	DE BRG/SEAL REPL LOBE BLWR>45 TO 100 KW	39		EA	2
748	DE BRG/SEAL REPL LOBE BLWR>100 TO 290 KW	40		EA	2
BLOWER-TWIN LOBE Overhauling			Job includes: 1.Dismantling and reassembling of NDE bearing cover. 2.Inspection, checking and replacement of gears and bearings including all measurement checks of bearing / seal seat on shaft. 3.Inspection and replacement of seal (s) including all measurement checks. 4.Removal and refixing of coupling guards 5.Removal and refixing of Belts 6.Checking and correction of pulley alignment 7.Inspection, tension adjustment and replacement of belts 8.Inspection and replacement of drive pulley 9.Inspection and replacement of driven pulley 10.Dismantling and reassembling of DE bearing cover. 11.Inspection, checking and replacement of gears and bearings including all measurement checks of bearing / seal seat on shaft. 12.Inspection and replacement of seal (s) including all measurement checks. 13.Removal and reinstallation of blower end cover (DE & NDE) Inspection of lobes and lobe housing including all measurement checks, repair/ replacement of lobes/housing/ complete blower.		
749	O/H OF LOBE BLWR UPTO 7.5 KW	28		EA	1
750	O/H OF LOBE BLWR>7.5 TO 22.5 KW	31		EA	1
751	O/H OF LOBE BLWR>22.5 TO 45 KW	30		EA	1
752	O/H OF LOBE BLWR>45 KW TO 100 KW	32		EA	1
753	O/H OF LOBE BLWR>100 TO 290 KW	30		EA	1
AGITATOR/MIXER Overhauling			Job Include: 1.Disconnection of all connecting pipelines,base bolt etc required for removal of complete mixer/agitator from tank. 2.De-coupling and coupling of drive shaft. 3.Motor removal from position. 4.Removal of mixer/agitator from the tank. 5.Removal and installation of coupling hub. 6.Removal of old bearing,mechanical and oil seal. 7.Inspection of coupling,shaft run out, bearing,mechanical seal, locking nut, blades etc. 7.Installation of new bearing,mechanical seal and oil seal as instructed by EIC. 8.Reassembly and installation at position. 9.Connection of all connecting pipelines,base bolt etc required for installation of complete mixer/agitator to tank.		
754	O/H OF AGITATORS UPTO 5 KW	26		EA	5
755	O/H OF AGITATORS >5 KW TO 18.5 KW	33		EA	2
RECIPROCATING COMPRESSOR. Coupling Guard removal			Job includes : Removal & reinstallation of coupling guard(s).		
756	CPLG GRD RMVL RECPCOMP UPTO 45 KW	33		EA	2
757	CPLG GRD RMVL RECPCOMP >45 TO 110KW	35		EA	2
758	CPLG GRD RMVL RECPCOMP >110 TO 460KW	36		EA	2
RECIPROCATING COMPRESSOR. Removal / Repair and Reinstallation of Unloaders			Job Include : Removal & reinstallation/replacement of suction unloaders		
759	UNLODR REPL RECPCOMP >110 TO 460KW	34		EA	8
RECIPROCATING COMPRESSOR. Remv/ins/repl of suction/discharge valve			Job Include : 1.Removal & reinstallation of valve cover(s) on cylinder. 2.Removal & reinstallation/replacement of suction / discharge valve assembly.		
760	SUC/DIS VLV REPL RECPCOMP UPTO 45 KW	36		EA	2
761	SUC/DIS VLV REPL RECPCOMP >45 TO 110KW	38		EA	2
762	SUC/DIS VLV REPL RECPCOMP >110 TO 460KW	39		EA	2
RECIPROCATING COMPRESSOR. Reconditioning of suc/dis valve			Job Include: Reconditioning of Suction / Discharge valve.		
763	VLV RECOND RECPCOMP UPTO 45 KW	30		EA	2
764	VLV RECOND RECPCOMP >45 TO 110KW	32		EA	2
765	VLV RECOND RECPCOMP >110 TO 460KW	33		EA	2
RECIPROCATING COMPRESSOR. Cylinder/piston assembly.			Job includes : 1.Removal and reinstallation of cylinder cover(s) including replacement of gasket. 2.Removal and reinstallation of distance piece cover(s) including replacement of gasket. 3.All necessary measurement checks like dimensions, clearances, concentricity, run out etc with correction as required. 4.Removal and reinstallation / replacement of piston / piston rod assembly. 5.Removal & reinstallation / replacement of piston rings. 6.Removal & reinstallation / replacement of piston rider rings. 7.Removal & reinstallation / replacement of rod packings / seals including removal / reinstallation of stuffing box gland housing.		
766	PSTN ASSY JOB RECPCOMP UPTO 45 KW	33		EA	1
767	PSTN ASSY JOB RECPCOMP >45 TO 110KW	35		EA	1
768	PSTN ASSY JOB RECPCOMP >110 TO 460KW	36		EA	1
RECIPROCATING COMPRESSOR. Cylinder Maintenance			Job Include : 1.Checking all clearance. 2.Inspection of cylinder bore. 2.Replacement of Oil Packing. 3.Replacement of Intermediate Packing. 4.Cover opening and box up, replacement and reconditioning of packing.		
769	CYLNDR MAINT RECPCOMP UPTO 45 KW	31		EA	1

770	CYLND MAINT RECPCOMP >45 TO 110KW	33		EA	1
771	CYLND MAINT RECPCOMP >110 TO 460KW	34		EA	1
	RECIPROCATING COMPRESSOR. Crankcase job.		Common jobs. 1.Rate is per Cylinder. 2.Removal and reinstallation of all covers necessary to access the internals including replacement of gaskets. 3.Check web deflection. 4.Clean internal LO strainer in crank case. 5.Check MOP.		
772	CRANKCASE JOB RECPCOMP UPTO 45 KW	33		EA	1
773	CRANKCASE JOB RECPCOMP >45 TO 110KW	35		EA	1
774	CRANKCASE JOB RECPCOMP >110 TO 460KW	36		EA	1
	RECIPROCATING COMPRESSOR. Main Bearing job		Job Include: 1.Removal and reinstallation / replacement of main bearings including all necessary checks on dimensions,clearances etc with correction as required.		
775	MAIN BRG REPL RECPCOMP UPTO 45 KW	33		EA	2
776	MAIN BRG REPL RECPCOMP >45 TO 110KW	35		EA	2
777	MAIN BRG REPL RECPCOMP >110 TO 460KW	36		EA	2
	RECIPROCATING COMPRESSOR. Small end bearing.		Job Include : 1.Removal and reinstallation / replacement of small-end bearing including all necessary checks on dimensions, clearances etc with correction as required.		
778	SMALL END BRG RECPCOMP UPTO 45 KW	33		EA	1
779	SMALL END BRG RECPCOMP >45 TO 110KW	35		EA	1
780	SMALL END BRG RECPCOMP >110 TO 460KW	36		EA	1
	RECIPROCATING COMPRESSOR. Big end bearing.		Job Include : 1.Removal and reinstallation / replacement of big-end bearing (s) including all necessary checks on dimensions, clearances etc with correction as required.		
781	BIG END BRG RECPCOMP UPTO 45 KW	31		EA	1
782	BIG END BRG RECPCOMP >45 TO 110KW	33		EA	1
783	BIG END BRG RECPCOMP >110 TO 460KW	34		EA	1
	RECIPROCATING COMPRESSOR. Connecting Rod job.		Job Include : 1.Removal and reinstallation / replacement of connecting rod (s) including all necessary checks on dimensions, clearances etc with correction as required.		
784	CNT ROD RECPCOMP UPTO 45 KW	27		EA	1
785	CNT ROD BRG RECPCOMP >45 TO 110KW	33		EA	1
786	CNT ROD BRG RECPCOMP >110 TO 460KW	34		EA	1
	RECIPROCATING COMPRESSOR. Cross Head Assy job		Job Include : 1.Removal and reinstallation/replacement of cross head assembly including all necessary checks on dimensions, clearances etc with correction as required		
787	CRS HED ASY RECPCOMP UPTO 45 KW	31		EA	1
788	CRS HED ASY RECPCOMP >45 TO 110KW	33		EA	1
789	CRS HED ASY RECPCOMP >110 TO 460KW	34		EA	1
	CENTRIFUGAL COMPRESSOR-INTEGRAL GEAR TYPE Drive End Bearing Inspection		Job Include: 1.Lube oil piping connected to coupling guard removal and refixing. 2.Coupling guard removal and refixing. 3.De-coupling - Spacer removal of GB-Motor ,GB-Compressor & Re-assembly with Torque tightening. 4.Bearing housing removal 5.Bearing removal, inspection, replacement(if required) & re-assembly.		
790	DE BRG REPL CENT COMP 540 KW	28		EA	2
791	DE BRG REPL CENT COMP 750 KW	28		EA	2
	CENTRIFUGAL COMPRESSOR-INTEGRAL GEAR TYPE Non-Drive End Bearing Inspection		Job Include: 1.Lube oil piping connected to coupling guard removal 2.De-coupling - Spacer removal of GB-Motor ,GB-Compressor & re-assembly with Torque tightening 3.Bearing housing removal 4.Bearing removal, inspection, replacement(if required) & re-assembly.		
792	NDE BRG REPL CENT COMP 540 KW	29		EA	1
793	NDE BRG REPL CENT COMP 750 KW	29		EA	1
	STEAM TURBINE-SINGLE STAGE 2-BLADE,BACK PRESSURE (Horizontally split) Governor End bearing replacement		Job includes: 1.Removal & reinstallation/replacement of governor. 2.Removal & reinstallation/replacement of spider and/or coupling hub at governor end. 3.Removal & reinstallation of overspeed trip bolt assembly. 4.Removal & reinstallation of bearing housing cover 5.Removal & reinstallation of adaptor and shims. 6.Inspection removal & replacement of thrust bearing (as required). 7.Removal & reinstallation/replacement of journal bearing & oil ring. 8.Removal & reinstallation/replacement of labyrinth seal & oil singer. 9.Over speed trip setting.		
794	GOVR END BRG REPL UPTO 30 KW	28		EA	1
795	GOVR END BRG REPL >30 TO 90 KW	30		EA	1
796	GOVR END BRG REPL >1200 TO 1850 KW	34		EA	1
	STEAM TURBINE-SINGLE STAGE 2-BLADE,BACK PRESSURE (Horizontally split) Drive end bearing replacement		Job includes: 1.Removal & reinstallation of bearing housing cover. 2.Removal & reinstallation/replacement of journal bearing & oil ring. 3.Removal & reinstallation/replacement of labyrinth seals & oil slinger		
797	DE BRG REPL UPTO 30 KW	22		EA	1
798	DE BRG REPL >30 TO 90 KW	24		EA	1
799	DE BRG REPL >1200 TO 1850 KW	28		EA	1
	STEAM TURBINE-SINGLE STAGE 2-BLADE,BACK PRESSURE (Horizontally split) Turbine shaft seal replacement		Job includes: 1.Removal & reinstallation of seal rings including inspection, repair/replacement & checks on seal seating area on shaft. 2.Removal and reinstallation of casing top half.		
800	SHFT SEAL REPL ST UPTO 30 KW	28		EA	1
801	SHFT SEAL REPL ST >30 TO 90 KW	31		EA	1
802	SHFT SEAL REPL ST >1200 TO 1850 KW	34		EA	1
	STEAM TURBINE-SINGLE STAGE 2-BLADE,BACK PRESSURE (Horizontally split) Repair/ replace of Trip throttle valve		Job includes: 1.Repair of Throttle Valve. 2.Repair/ replace of Trip throttle valve: Job includes: 3.Repair / Replacement of Trip Throttle Valve.		
803	TTV REPAIR STEAM TURB UPTO 30 KW	32		EA	1
804	TTV REPAIR STEAM TURB >30 TO 90 KW	34		EA	1
	STEAM TURBINE (Multi Stage Horizontal)- CONDENSING TYPE NDE Bearing replacement		Job includes : 1.Examine all parts of Bearing, Clean housing. Examine all free bolts, nuts, adjusting devices & guides & replace spherical washers. 2.Clean Bearing sealing rings, inspect & fit new sealing ring if required. 3.Disassemble, clean, measure clearance & refit Journal bearing. 4.Disassemble, Clean, refit Thrust bearings & measure axial clearance 5.Blue Matching if required.		
805	NDE BRG REPL MULTI STAG ST 1602 KW	34		EA	1
	STEAM TURBINE (Multi Stage Horizontal)-CONDENSING TYPE NDE Bearing replacement		Job includes : 1.Inspect pedestals & foundations. Retighten anchor bolts. 2.Free bearing housing, adjusting device. 3.Replace spherical washers, overhaul bearing housing guides, cleaning of pedestals, shims 4.Blue matching if required.		

806	DE BRG REPL MULTI STAG ST 1602 KW	33		EA	1
	Miscellaneous Job				
807	REPLACEMENT GT INLET AIR FILTER	31	REPLACEMENT GT INLET AIR FILTER. (High Efficiency filter) Installed Qty (1 SET = 84 Nos)	SET	1
808	REPLACEMENT GT INLET AIR FILTER	31	REPLACEMENT GT INLET AIR FILTER. (Pre-filter, F-9) Installed Qty (1 SET= 108 Nos)	SET	1
809	REPLACEMENT PAC INLET AIR FILTER	32	REPLACEMENT PAC INLET AIR FILTER.( High Efficiency filter,E-12) Installed Qty (1 SET= 48 Nos filter)	SET	1
810	LOAD GEAR & GENERATOR COUPLING	31	LOAD GEAR & GENERATOR COUPLING Load Gear & Generator Coupling Removal & Fixing.	EA	1
811	GAS TURBINE & LOAD GEAR COUPLING	33	GAS TURBINE & LOAD GEAR COUPLING Gas Turbine & Accessory Gear Box Coupling Removal & Fixing.	EA	1
812	ALMENT CHK BETWEN GENRTR & GB.	31	ALIGNMENT CHECK BETWEEN GENERATOR & GEAR BOX.	EA	1
813	ALMT CHK RECTI BETWEN GENRTR/GB	31	ALMT CHK RECTI BETWEEN GENRTR/GB	EA	1
814	COMP REM&RE-FIXING OF NOISE HOOD	34	COMP REM&RE-FIXING OF NOISE HOOD Removal and re-fixing of Noise Hood. - Integrally Geared Centrifugal Compressor/N2 Blower	EA	2
815	REM&RE-FIXING OF NOISE HOOD PER PANNEL	40	REM&RE-FIXING OF NOISE HOOD PER PANNEL Removal and re-fixing of Noise Hood. - Integrally Geared Centrifugal Compressor/N2 Blower	SQ	10
816	SEAL POT FLUID TOP UP FOR MECHANICAL SEAL	42	SEAL POT FLUID TOP UP FOR MECHANICAL SEAL Oil top up in seal pot by hand pump after taking out oil from oil dispenser unit upto 20 ltrs	LTR	100
817	HAND PUMP - MECH SEAL REPAIR	29	HAND PUMP - MECH SEAL REPAIR Drain the liquid by opening small bore flanges, dismantle the hand pump, replace oil seal/spring/plunger etc internals as per requirement, box up, charge with liquid.	EA	5
818	DEWATERING PUMP	15	DEWATERING PUMP 1.Lifting the pump, dismantling the cover, cleaning and boxup Lifting the pump, dismantling the cover, cleaning , replacement of oil seal,bearing and boxup 2.Complete overhauling of the pump including replacement of spares.	EA	5
	PUMP FREEE ROTATION CHECKING		Ensure pump is electrically isolate, coupling guard removal, free rotation checking by rotating the coupling with hand/ mechanical tool, fixing of coupling guard.Remove all tools and tackles from the job site, ensure house keeping.		
819	PUMP FREE ROTATION UPTO 100 KW	30		EA	150
820	PUMP FREE ROTATION 101-250 KW	29		EA	100
821	PUMP FREE ROTATION 251-750 KW	29		EA	50
822	PUMP FREE ROTATION ABOVE 750	28		EA	25
823	LUBE OIL/GREASE TOP-UP	23	LUBE OIL/GREASE TOP-UP checking the lube oil level in the sight glass and top-up proper grade of lube oil/grease in rotary equipment, if required replace the lube oil/grease as recommended by EIC.	EA	500

Please find below the list of Units of Measurement (UOM) along with their descriptions:

EA: Each  
ID: Inch Dia  
INM: Inch Meter  
KG: Kilogram  
M: Meter  
M2: Square Meter  
M3: Cubic Meter  
MT: Metric Ton  
NO: Number  
TON: Ton  
LS: Lump Sum  
MDY: Man Days



# HINDUSTAN URVARAK & RASAYAN LIMITED

(A JOINT VENTURE OF CIL, NTPC, IOCL, FCIL & HFCL)

## BARAUNI UNIT

Barauni Urvarak Nagar, Begusarai

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115

[Registered Office SCOPE Minar, Core 4, 9TH Floor, Laxmi Nagar District Center, Delhi-110092]



## SECTION – VI

### ***FORMS AND PROCEDURES (NIT)***

## INDEX

Annexure	Description
1	Techno-Commercial Proposal Bid Form
2	Format for Electronics Payment
3	Tender Acceptance Letter & Letter of authorization to submit bid
4	No deviation Certificate
5	Certificate from CEO/MD/ Legally Authorized Signatory
6	Acceptance to Fraud Prevention Policy of HURL
7	Certificate related to Restrictions on procurement from a Bidder of a country which shares a land border with India
8	Format of Bank Guarantee for Bid Security
9	Format of Performance Bank Guarantee
10	Bank Guarantee Verification Checklist
11	Format for Contract Agreement
12	Work orders subject to tender for qualification
13	Bid Security Declaration Form
14	Self-Certification under Preference to “MAKE IN INDIA” Policy.
15	DECLARATION OF GST (A&B).
16	Proforma of NO DEMAND CERTIFICATE

**TECHNO-COMMERCIAL PROPOSAL BID FORM****(To be Submitted on the Letter Head of Bidder)****Bidder's Techno-Commercial Proposal Ref. No.:**

Bidder's Name &amp; Address :

Date:

Person to be contacted :

Designation :

Tel. No(s). :

Mobile No. :

Fax No(s). :

E-mail address:

To

Manager (C&amp;M),

HURL Admin Building Office,

Hindustan Urvarak &amp; Rasayan Limited, Barauni,

(A JV of CIL, NTPC, IOCL, FCIL &amp; HFCL)

P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.

Dear Sirs,

1.0 Having examined the Bidding Documents bearing No. .... Dated..... including its subsequent amendments and clarifications, if any, issued by Owner, the receipt of which is hereby acknowledged, we the undersigned, offer to complete the work under the above-named Package in full conformity with the said Bidding Documents and hereby furnish our Techno-Commercial Proposal.

2.0 We have understood the instructions and the terms & conditions mentioned in the Bidding Documents furnished by you and have thoroughly examined the specifications laid down by you in the Bidding Documents and are fully aware of the nature of consultancy services required.

**Attachments to the Bid form (Techno-Commercial Bid):**

In line with the requirement of the Bidding Documents we enclose herewith the following Attachments to the Bid Form (Techno-commercial) Bid:

Table 1 : Attachments to the Bid form	
Sr. No	Documents
1	Power of Attorney as per requirement mentioned in NIT.
2	Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD) / MSE Certificate with applicable annexure form for exemption.
3	Signed, Stamped and Scanned copy of Certificates like Registration certificate, GST No, PAN No, PF, etc.

4	Signed, Stamped and Scanned copy of Format for Electronics Payment (Enclosed as Annexure-2 to Forms and Procedures i.e., Section VI)
5	Signed, Stamped and Scanned copy of Tender Acceptance Letter (Enclosed as Annexure-3 to Forms and Procedures i.e., Section VI)
6	Documents as required in accordance with Qualifying Requirements / Pre-Qualification Criteria (PQC) i.e., <u>Clause 6</u> of NIT
7	Signed, Stamped and Scanned copy of No deviation Certificate (Enclosed as Annexure-4 to Forms and Procedures i.e., Section VI)
8	Signed, Stamped and Scanned copy of Certificate from CEO/MD/ Legally Authorized Signatory, in the format as enclosed as Annexure-5 to Forms and Procedures i.e., Section VI.
9	Acceptance to Fraud Prevention Policy of HURL, for which the bidder has to submit Signed, Stamped and Scanned copy of Form of Acceptance of Fraud Prevention Policy of HURL. (Enclosed as Annexure-6 to Forms and Procedures i.e., Section VI).
10	Certificate related to Restrictions on procurement from a Bidder of a country which shares a land border with India" i.e. (Enclosed as Annexure-7 to Forms and Procedures i.e., Section VI).
11	Work orders subject to tender for qualification as per Annex – 12 with clearly mentioning Purchase order details relevant to tender based on which PQC can be achieved. Not to be mentioned as "As Attached"/ "mentioned in Bid"/ etc.
12	Declaration of GST (annexure -15) Signed, Stamped and Scanned copy of Declaration of GST (Enclosed as Annexure-15 to Forms and Procedures i.e., Section VI).
13	Signed, Stamped and Scanned copy of Bid Security Declaration Form (Enclosed as Annexure-13 to Forms and Procedures i.e., Section VI).
14	Signed, Stamped and Scanned copy of GCC, SCC & Scope of Work (i.e. Section-V) of tender document.
15	Any Other Document asked for in the Bidding Document

### 3.0 COMPLIANCE TO THE PROVISIONS OF THE BIDDING DOCUMENTS

3.1 We have read all the provisions of the Bidding Documents and confirm that notwithstanding anything stated elsewhere in our bid to the contrary, the provisions of the Bidding Documents, are acceptable to us and we further confirm that we have not taken any deviation to the provisions of the Bidding Documents anywhere in our bid.

We have furnished our compliance to the provisions of the Bidding Documents and its subsequent Amendment(s)/Clarification(s)/Addenda/Errata by furnishing "NO DEVIATION CERTIFICATE".

We hereby confirm that any deviation, variation or additional condition etc. or any mention, contrary to the provisions of Bidding Documents and its subsequent Amendment(s)/Clarification(s)/Addenda/Errata (if any) found anywhere in our bid proposal, implicit or explicit shall stand unconditionally withdrawn, without any cost implication whatsoever to the Owner, failing which our bid security shall be forfeited.

3.2 We further declare that additional conditions, variations, deviations, if any, found in the bid, shall not be given effect to.

3.3 We further declare that we have read and understood all sections (I to VI) of the tender document, endorse all the sections and submitting the bids.

4.0 We undertake, if our bid is accepted, to commence the work immediately upon your Notification of Award to us.

5.0 We agree to abide by this bid for a **period 180 days** from the date of opening of Techno-Commercial bids as stipulated in the Bidding Documents and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

6.0 Until a formal Contract Agreement is prepared and executed between us, the bids, together with your written acceptance thereof in the form of your Notification of Award shall constitute a binding contract between us.

7.0 We understand that you are not bound to accept our bid or any other bid you may receive.

8.0 We, hereby, declare that only the persons or firms interested in this proposal as principals are named here and that no other persons or firms other than those mentioned herein have any interest in this proposal or in the Contract to be entered into, if the award is made on us, that this proposal is made without any connection with any other person, firm or party likewise submitting a proposal, is in all respects for and in good faith, without collusion or fraud.

9.0 We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

10.0 We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

11.0 We hereby declare that we have completed Annexure-12 - Tender Qualification form and provided clear details of the purchase order number and ATO information for verification and evaluation of the prequalification criteria. We acknowledge that failure to provide the mentioned details may lead to the rejection of our bid, and we understand that no claims will be entertained in such a case.

Dated this. \_\_\_\_ day of

Thanking you,

Yours faithfully,

Date :

Place : \_\_\_\_

(authorised signatory Name).

(Designation)

Company Seal

**Format For Electronics Payment**

Bidders are required to submit the following details on the company's letter head for online transfer of amount to their account:

1.	Contractor Name / Company Name	
	Address:	
	Phone No.	
	E-mail ID	
2. a	Name of the Bank	
b.	Address of the Branch	
c.	Telephone No.	
d.	9 Digit Code number of the Bank and Branch appearing on the MICR Cheque issued by the Bank	
e.	11 Digit NEFT/IFSC Code of the Bank Branch	
f.	Account Type (SB/CC/CA)	
g.	Bank Account No.(as appearing on the Cheque)	
h.	Permanent Account Number (PAN) Under Income Tax Act.	
i	GST Registration Number	
j.	Name of Authorized Signatory	
k.	Contact Person Name	

# Attach Cancelled cheque as supporting to Annexure -2

We hereby declare that the particulars given above are correct and complete

Authorized signatory of the bidder

Name

Designation

Date

**TENDER ACCEPTANCE LETTER  
(To be given on Company Letter Head)**

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No:

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:  
as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. to (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,  
(Signature of the Bidder, with Official Seal)

**DECLARATION FOR “NO DEVIATION”****(To be submitted on the Letter Head of the Bidder duly signed by Authorised Signatory)**

1. With reference to our Bid Proposal No. .... dated ..... For ...(Name of Package to be mentioned)....., we hereby confirm that we comply with all terms, conditions and specifications of the Bidding Documents read in conjunction with Amendments(s) / Clarification(s) / Addenda / Errata (if any) issued by the Owner prior to opening of Techno – Commercial Bids and the same has been taken into consideration while making our Techno – Commercial Bid & Financial Bid and we declare that we have not taken any deviation / exceptions in this regard.

2. We further confirm that any deviation variation or additional conditions etc. or any mention, contrary to the Bidding Documents and its Amendments(s) / Clarification(s) / Addenda / Errata (if any) as mentioned at 1.0 above found anywhere in our Techno – Commercial Bid and / or Financial Bid, implicit or explicit, shall stand unconditionally withdrawn, without any cost implication whatsoever to the Owner, failing which the Bid Security shall be forfeited.

Yours faithfully,

(Signature)

Date:  
Designation.....

Name &amp;

Place:  
the Company.....

Name of

(Seal of Company) .....



**PROFORMA OF CERTIFICATE  
(TO BE SUBMITTED BY CEO/MD/ LEGALLY AUTHORISED SIGNATORY OF THE BIDDING  
COMPANY ON COMPANY'S LETTER HEAD IN ORIGINAL)**

Ref.

: Date:

To  
Manager (C&M),  
HURL Admin Building Office,  
Hindustan Urvarak & Rasayan Limited, Barauni,  
(A JV of CIL, NTPC, IOCL, FCIL & HFCL)  
P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.  
Sub:

Bidding Doc. No.

Dear Sir,

I, Mr. .... (CEO of the company / MD of the company/ Authorized Signatory),  
hereby certify that the data and documents furnished by M/s..... in respect  
of Techno-Commercial Evaluation are true and correct including the contents thereof.

I further, confirm that if at any point of time the declarations given in bid are found to be incorrect,  
HURL shall have the full right to terminate the contract and take any action as per provisions of  
contract including forfeiture of EMD/Security Deposit.

Yours faithfully,  
(Signature)

Date Name &amp; Designation.....

Place Name of the Company.....

(Seal of Company) .....

**(FORM OF ACCEPTANCE OF FRAUD PREVENTION POLICY OF HURL)**

**(To be submitted on the Letter Head of the Bidder duly signed by Authorised Signatory)**

Ref. :

Date:

To  
Manager (C&M),  
HURL Admin Building Office,  
Hindustan Urvarak & Rasayan Limited, Barauni,  
(A JV of CIL, NTPC, IOCL, FCIL & HFCL)  
P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.

Sub: **FORM OF ACCEPTANCE OF FRAUD PREVENTION POLICY OF HURL**

Bidding Doc. No.

We have read the contents of the Fraud Prevention Policy of HURL displayed on its website <http://www.hurl.net.in> and undertake that we shall strictly abide by the provisions of the said Fraud Prevention Policy of HURL.

-----  
Date : (Signature of Authorized Signatory) .....

Place : (Printed Name) .....

(Designation).....

(Company Seal) .....

**Model Certificate For Tenders For Works involving possibility of sub-contracting**  
**(TO BE SUBMITTED BY AUTHORISED SIGNATORY OF THE BIDDING COMPANY ON BIDDERS**  
**LETTER HEAD IN ORIGINAL)**

**Bid Ref No. : .....**

Bidder's Name and Address:

To,  
Manager (C&M),  
HURL Admin Building Office,  
Hindustan Urvarak & Rasayan Limited, Barauni,  
(A JV of CIL, NTPC, IOCL, FCIL & HFCL)  
P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.

**Dear Sir,**

We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries as per the guidelines dated 23.07.2020 & 24.07.2020 issued by Department of Expenditure (DOE), Ministry of Finance; We hereby certify that we/our collaborator/ JV partner/ Consortium member/ Assignee is not from such a country and are eligible to be considered. We further certify that we will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. We hereby certify that we fulfill all the requirements in this regard.

Yours faithfully,

(Signature)

Date

Place

Name & Designation.....

Name of the Company.....

(Seal of Company) .....

Note: - Bidders not furnishing this aforesaid declaration shall be considered to be from such Countries.

**Bid Security Form****Bank Guarantee**

(To be stamped in accordance with Stamp Act,  
if any, of the Country of the issuing Bank)

Bank Guarantee No...

Date...

To:

Manager (C&M),  
HURL Admin Building Office,  
Hindustan Urvarak & Rasayan Limited, Barauni,  
(A JV of CIL, NTPC, IOCL, FCIL & HFCL)  
P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.

Dear Sirs,

In accordance with Invitation for Bids under your Bid Document No....., M/s ..... having its Registered / Head Office at.....(hereinafter called the 'Bidder' ) wish to participate in the said bid for [Name of Package] ...

As an irrevocable bank guarantee against Bid Security for an amount of ... ..

(\*) . valid for..... days from ..(\*\*).... required to be submitted by the Bidder as a condition precedent for participation in the said bid which amount is liable to be forfeited on the happening of any contingencies mentioned in the Bidding Documents.

We, the ... [Name & address of the Bank] ...having our Head Office at ... (#) ... gurantee and undertake to pay immediately on demand by..... .[Name of the Owner] (hereinafter called the Owner)... . the amount of ..(\*) .....without any reservation, protest, demand and recourse. Any such demand made by the 'Owner' shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder.

This Guarantee shall be irrevocable and shall remain valid upto ... .(@).....

If any further extension of this guarantee is required, the same shall be extended to such required period (not exceeding one year) on receiving instructions from M/s [Bidder's Name] ... .. on whose behalf this guarantee is issued.

Notwithstanding anything contained herein:

1. Our liability under this bank guarantee shall not exceed [Bid security amount]
2. This bank guarantee shall be valid up to [expiry date]

3. We are liable to pay the guaranteed amount or any part under this bank guarantee only and only if you serve upon us a written claim or demand on or before [claim expiry date of guarantee]”.

In witness where of the Bank, through its authorised officer, has set its hand and stamp on this.....day of.....at.....

(Signature)  
(Name)  
(Designation with Bank Stamp)

Authorized Vide Power of Attorney No...

Date...

NOTE:

1. (\*) The amount shall be as specified in the Bid Data Sheets.  
(\*\*) This shall be the date of opening of Techno-commercial bids.  
(#) Complete mailing address of the Head Office of the Bank to be given.  
(@) This date shall be forty-five (45) days after the last date of bid validity.
2. The Bank Guarantee shall be from a Bank as per relevant provisions of ITC clause of the Bidding Documents.
3. The Stamp Paper of appropriate value shall be purchased in the name of Bidder/Bank issuing the Guarantee.
4. While getting the Bank Guarantee issued, Bidders are required to ensure compliance to the points mentioned in relevant Form of Bank Guarantee Verification Check List enclosed in Section-VII of bidding document. Further, Bidders are required to fill up this Form and enclose the same with the Bank Guarantee.
5. HURL Bank details required for the purpose of issuance of Bank Guarantee are

Bank: SBI  
Current account no 37880422277,  
IFSC Code- SBIN0004803.

**Performance Security Form**

(To be stamped in accordance with Stamp Act if any, of the Country of the Issuing Bank)

Bank Guarantee No.....

Date.....

To,

Manager (C&M),  
HURL Admin Building Office,  
Hindustan Urvarak & Rasayan Limited, Barauni,  
(A JV of CIL, NTPC, IOCL, FCIL & HFCL)  
P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.

Dear Sirs,

In consideration of the .....[*Owner's Name*]..... (hereinafter referred to as the 'Owner' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators and assigns) having awarded to M/s .....[*Bidder's Name*]..... with its Registered /Head Office at ..... (hereinafter referred to as the 'Bidder', which expression shall unless repugnant to the context or meaning thereof, include its successors administrators, executors and assigns), a Contract by issue of Owner's Notification of Award No. .... dated..... and the same having been unequivocally accepted by the Bidder, resulting into a Contract bearing No..... dated ..... valued at ..... for ..... and the Bidder having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to .....(\*).....% ( ..... percent) of the said value of the Contract to the Owner.

We .....[*Name & Address of the Bank*].....having its Head Office at.....(hereinafter referred to as the 'Bank', which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Owner, on demand any and all monies payable by the Bidder to the extent of .....(\*)..... as aforesaid at any time upto .....(@)..... [*days/month/year*] without any demur, reservation, contest, recourse or protest and/or without any reference to the Bidder. Any such demand made by the Owner on the Bank shall be conclusive and binding notwithstanding any difference between the Owner and the Bidder or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Owner and further agrees that the guarantee herein contained shall be enforceable till ninety (90) days after expiry of its validity.

The Owner shall have the fullest liberty, without affecting in any way the liability of the Bank under this guarantee, from time to time to extend the time for performance of the Contract by the Bidder. The Owner shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Bidder, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Owner

and the Bidder or any other course or remedy or security available to the Owner. The Bank shall not be released of its obligations under these presents by any exercise by the Owner of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the Owner or any other indulgence shown by the Owner or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agrees that the Owner at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Bidder and notwithstanding any security or other guarantee that the Owner may have in relation to the Bidder's liabilities.

Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to .....(\*)..... and it shall remain in force upto and including .....(@)..... and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s .....[Bidder's Name]..... on whose behalf this guarantee has been given.

Dated this .....day of.....20..... at.....

**WITNESS :**

.....	(Signature).....
(Signature)	
.....	
(Name)	(Name).....
.....	.....
(Official Address)	(Designation with Bank Stamp)

Attorney as per Power  
of Attorney No.....  
Dated.....

**Notes :** 1. (\*) This sum shall be ten percent (10%) of the Contract Price.

(@) This date will be ninety (90) days beyond the completion date for consultancy work as specified in the Contract.

2.The stamp papers of appropriate value shall be purchased in the name of guarantee issuing Bank.

3.While getting the Bank Guarantee issued, the Bidder is required to ensure compliance to the points mentioned in relevant Form of Bank Guarantee Verification Check List. Further, the Bidder is required to fill up this Form and enclose the same with the Bank Guarantee.

4.The Bank Guarantee shall be from any Scheduled / Commercial Bank recognised by Reserve Bank of India.

**BANK GUARANTEE VERIFICATION CHECKLIST**

1. Bank Guarantee No.
2. Issuing Bank
3. Amount of BG
4. Nature of BG & No. Pages
5. Validity of BG
6. Package Description
7. Party & Contracts Ref.
8. Bank Reference

**CHECK LIST**

S.No.	Details of Checks	Yes/No
a)	Is the BG on non-judicial stamp paper of appropriate value, as per Stamp Act?	
b)	Whether date, purpose of purchase of stamp paper and name of the purchaser are indicated on the back of stamp paper under the Signature of Stamp vendor? (The date of purchase of stamp paper should be not later than the date of execution of BG and the stamp paper should be purchased either in the name of the executing Bank or the Bidder on whose behalf the BG has been issued).	
c)	In case the BGs from Banks abroad, has the BG been executed on Letter Head of the Bank, whether adhesive Stamp of appropriate value has been affixed thereon.	
d)	Has the executing Officer of BG indicated his name, designation and Power of Attorney No. / Signing Power No. etc. on the BG?	
e)	Is each page of BG duly signed/initiated by executant and whether stamp of Bank is affixed thereon? Whether the last page is signed with full particulars including two witness under seal of Bank as required in the prescribed proforma?	
f)	Does the Bank Guarantees compare	



verbatim with the Proforma prescribed  
in the Bid Documents?

g) In case of any changes in contents of text,  
whether changes are of minor/clerical nature  
(which in no way limits the right of HURL in  
any manner)?

h) In case of deviations in text of BG, which materially  
affect the right of Owner, whether the changes  
have been agreed based on the opinion by  
Legal Department or BG is considered acceptable  
on the basis of opinion of Law Department already  
available on the similar issue.

i) Are the factual details such as Bid  
Document No./Specification No. /  
NOA / LOA / Contract No., Contract  
Price, Percentage of Advance, Amount  
of BG and Validity of BG correctly  
mentioned in the BG?

j) Whether overwriting / cutting if any on  
the BG have been properly authenticated  
under signature & seal of executant?

k) Whether the BG has been issued by  
a Bank in line with the provisions of  
Bidding / Contract Documents?

l) In case BG has been issued by a Bank  
other than Scheduled / Commercial Bank  
recognised by Reserve Bank of India,  
is the BG confirmed by a Bank in India  
acceptable as per Bidding /  
Contract Documents?

-----  
Date : Signature.....

Place :

Printed Name of Authorized Person having Power of Attorney.

(Designation) .....

(Common Seal) .....

**Note :** The Bidder is required to fill up this form and enclose along with the Bank guarantee.

**FORMAT OF CONTRACT AGREEMENT**

(To be executed on non-judicial stamp paper of appropriate value)

THIS CONTRACT AGREEMENT is made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_..

BETWEEN

(1) *[Name of Owner]*, a corporation incorporated under the laws of *[country of Owner]* and having its principal place of business at *[address of Owner]* (hereinafter called “the Owner”), and (2) *[name of Contractor]*, a corporation incorporated under the laws of *[country of Contractor]* and having its principal place of business at *[address of Contractor]* (hereinafter called “the Contractor”)

WHEREAS the Owner desires to engage the Contractor to .....*[scope of work]*..... and the Contractor have agreed to such engagement upon and subject to the terms and conditions hereinafter appearing.

NOW IT IS HEREBY AGREED as follows:

**ARTICLE 1. CONTRACT DOCUMENTS**

1.1 The following documents shall constitute the Contract between the Owner and the Contractor,  
and each shall be read and construed as an integral part of the Contract:

- a) This Contract Agreement and the Appendices hereto
- b) Letter of Award .. Ref. No
- c) Amendment to the NIT document.
- d) Instruction to Bidders
- e) Special Conditions of Contract
- f) General Conditions of Contract
- g) Technical Specifications and Drawings
- (f)The Bid and Price Schedules submitted by the Bidder

**1.2 Order of Precedence**

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1(Contract Documents) above.

**1.3 Definitions**

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions of Contract.

## **ARTICLE 2. CONTRACT PRICE AND PAYMENT TERMS**

### **2.1 Contract Price**

The Owner hereby agrees to pay to the Contractor the Contract Price in consideration of the performance by the Contractor of its obligations hereunder. The Contract Price shall be the aggregate of: *[amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]*, or such other sums as may be determined in accordance with the terms and conditions of the Contract.

### **2.2 Payment Terms**

Payment shall be made by the Owner to the Contractor as per the provisions of Bidding Documents.

## **ARTICLE 3. EFFECTIVE DATE FOR DETERMINING TIME FOR COMPLETION**

The Completion period of the Project shall be determined from the date of Letter of Award.

## **ARTICLE 4. NON-ASSIGNABILITY**

The Contract and benefits and obligations thereof shall be strictly personal to the CONTRACTOR and shall not on any account be assignable or transferable by the CONTRACTOR.

## **ARTICLE 5. GOVERNMENT OF INDIA NOT LIABLE**

It is expressly understood and agreed by and between the Contractor and the Owner that the Owner is entering into this Agreement solely on its own behalf and not on behalf of any other person or entity. In particular it is expressly understood and agreed that the Government of India is not a party to this Agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that the Owner is an Independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable laws of India and the general principles of Contract Law. The Contractor expressly agrees, acknowledges and understands that the Owner is not an Agent, Representative or Delegate of the Govt. of India. It is Further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the Contract. Accordingly, the Contractor expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this Contract and covenants not to sue the Government of India in any manner, claim, cause of action or thing whatsoever arising out of or under this Contract.

## **ARTICLE 6. Appendices**

The Appendices listed in the attached list of Appendices shall be deemed to form an integral part of this Contract Agreement. Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

## **ARTICLE 7. NO LIABILITY ON DIRECTOR AND EMPLOYEE**

No Director, employee, consultant or agent of the OWNER or other person representing the OWNER or acting on behalf of the OWNER in or pursuant to the Contract or in the discharge of any obligation to the OWNER under the Contract or otherwise in relation to the Contract shall have any personal liability to the CONTRACTOR or any Sub-Contractor, agent, representative, director or employee of the CONTRACTOR or to any other person acting for or on behalf of the CONTRACTOR and the CONTRACTOR on its own behalf and on behalf of its Sub Contractors, directors, employees, agents and representatives hereby waives and disclaims any and all right of

action which it or they may have whether under tort or Contract or otherwise against the OWNER or any director, employee, agent, consultant or representative of the OWNER for act of omission or commission done or omitted to be done.

#### **ARTICLE 8. WAIVER**

No failure or delay by the OWNER in enforcing any right or remedy of the OWNER in terms of the CONTRACT or any obligation or liability of the CONTRACTOR in terms thereof, shall be deemed to be a waiver of such right, remedy, obligation or liability, as the case may be, by the OWNER and notwithstanding such failure or delay, the OWNER shall be entitled at any time to enforce such right, remedy, obligation or liability, as the case may be.

#### **ARTICLE 9. LANGUAGE OF CONTRACT AND COMMUNICATION**

The language of the Contract shall be English and all communications, drawings, design, data, information, codes specifications and other document whatsoever supporting the bid or otherwise exchanged under the Contract shall be in English. In the event that any technical documentation is in any language other than English, the document should be translated and presented to the OWNER/Project Manager in English and English document/translated document shall be regarded as the only authentic document.

IN WITNESS WHEREOF the Owner and the Bidder have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

Signed by for and on behalf of the Owner

[Signature]

[Title]

in the presence of

Signed by for and on behalf of the Bidder

[Signature]

[Title]

in the presence of \_\_\_\_\_

CONTRACT AGREEMENT

dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

BETWEEN

["the Owner"]

and

["the Bidder"]

# TENDER QUALIFICATION FORM

## (MUST BE FILLED)

THE TENDER SHALL NOT BE EVALUATED IF THE FORM IS NOT FILLED. UDIN AND PURCHASE ORDER DETAILS SHOULD BE CLEARLY MENTIONED. ONLY ORDERS MENTIONED IN THE FORM SHALL BE EVALUATED AND OTHER ORDERS MAY NOT BE EVALUATED EVEN IF THEY ARE ATTACHED. HURL RESERVES THE RIGHT TO REJECT THE BID IF THIS FORM IS NOT FILLED.

To,

HURL Barauni, Begusarai , Bihar – 851115

Tender No. :

Bidder's Name :

In order to meet the PQC and qualification criteria of the subject tender, we submit the below supporting documents:

In order to meet the PQC of above tender No, we submit below supporting documents:					
Details of Annual Turnover (ATO)		FY	UDIN No.		Turn over (INR)
Annual Turnover during		2019-20			
Annual Turnover during		2020-21			
Annual Turnover during		2021-22			
Annual Turnover during		2022-23			
Average ATO for the Preceding 3 Financial Years					
Sl.	Description of items	PO No.	PO Date	PO value in INR	Actual Supplied value in INR
1					
2					
3					
4					
5					
6					
7					

8					
9					
10					

VERY IMPORTANT:

**Note to Annexure -12:**

1. Bidders shall clearly mention the details in above table in line with the supporting documents and any vague reply like “attached” / “as per supporting” etc. written in above **form such bids shall be liable to reject**. NO CLAIMS SHALL BE ENTERTAINED IF THE DATA IS NOT FILLED PROPERLY AS MENTIONED IN ANNEXURE -12.
2. Bidders must submit all requisite documents mentioned above in support of their meeting the PQC requirement.
3. **Bidders can submit a maximum of 10 Purchase orders with their completion certificates** and the details of the same should be clearly mentioned in the annexure -12. The bidder shall be obligated to furnish an amended copy of the work order in the event that the executed value specified in the completion certificate surpasses the original order value. Failure to comply with this requirement shall grant HURL the right to disqualify the order, and no claims shall be entertained with respect to such occurrences.
4. No work order copies other than mentioned above will be accepted for PQC, technical and financial evaluation at the stage of tender evaluation and shortfall query/clarification. HURL Reserves the right to reject the bid if the document
5. The shortfall shall only be raised for the attached orders. If the bidders fail to attach the purchase orders even after filling out the data in Annexure-12, HURL reserves the right to reject them, and no shortfall may be raised for such instances. Additionally, no claims from the bidders shall be entertained in such cases.
6. Bidders will be given only one opportunity with a fixed deadline to submit any shortfall documents/clarification mentioned in Annexure-12 related to work order/purchase order (if required).

Yours Faithfully,

(Signature of the Bidder with Official Seal)

**Bid Security Declaration Form****( On Bidders Letter Head)**

To,  
 Manager (C&M),  
 HURL Admin Building Office,  
 Hindustan Urvarak & Rasayan Limited, Barauni,  
 (A JV of CIL, NTPC, IOCL, FCIL & HFCL)  
 P.O: Barauni, Distt: Begusarai (Bihar), Pin: 851115.

**Sub:** Bid Security Declaration Form

Tender Reference No: -

Name of Tender/Work: -

Dear Sir,

I/We. The undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.
2. I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We:
  - a. have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
  - b. Having been notified of the acceptance of our Bid by the purchaser during the period of Bid Validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.
3. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) if I am/ we are not the successful bidder, the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid or any extension thereof.

Signed:

(Insert signature of person whose name and capacity are shown)

in the capacity of

(Insert legal capacity of person signing the Bid Securing Declaration)

Name:

(Insert complete name of person signing the Bid Securing Declaration)

Dated on .....day of .....(Insert date of signing)

Corporate Seal (where appropriate)

Note: To Be signed by person who is legally authorised as assigned in Power of Attorney. In case of a Joint venture, the Bid securing declaration must be in the name of all partners to the joint venture that submits the bid.

**Self-Certification under Preference to “MAKE IN INDIA” Policy****CERTIFICATE**

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s \_\_\_\_\_ (supplier name) are local supplier meeting the requirement of minimum Local content (50%) as defined in above orders for the material against Tender No \_\_\_\_\_

Details of location at which local value addition will be made is as follows:

-----  
-----

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law. Seal and Signature of Authorized Signatory.

Seal and Signature of Authorized Signatory



DECLARATION OF GST NON-ENROLMENT

Dear Sir/Madam,

**Sub:** Declaration of non-requirement of registration under the Central/State/UT/Integrated Goods and Services Tax Act, 2017

I/We..... (Name of the service provider/business entity), do hereby declare that I/we am/are not registered under the Goods and Services Tax Act, 2017 as (select and fill below for the relevant reason)

-I/We deal in/supply the category of goods or services ..... (Describe the nature of the services/goods) which are exempted under the Goods and Service Tax Act, 2017.

-I/We have the annual aggregate turnover below the taxable limit as specified under the Goods and Services Tax Act, 2017.

-I/We are yet to register ourselves under the Goods and Services Tax Act, 2017.

I/We hereby also confirm that if anytime during any financial year I/we decide or require or become liable to register under the GST, I/we undertake to provide all the requisite documents and information.

I/We request you to consider this communication as a declaration for not requiring to be registered under the Goods and Service Tax Act, 2017.

I/We hereby also confirm that ..... (Name of the service recipient) shall not be liable for any loss accrued to me/us, due to any registration default with the GST.

Signature of Authorised Signatory:

Name of the Authorised Signatory:

Name of Business:

Date:

Stamp/Seal of the business entity:

**DECLARATION REGARDING GST  
(To be given on Company Letter Head)**

Date:

To,

Sub: Declaration Regarding GST

Tender Reference No:

Name of Tender / Work: -

Dear Sir,

We hereby submit following declaration with respect to the applicability of GST.

☐ GST (Goods and Service Tax) on transportation activity being under reverse charge mechanism (RCM) shall be deposited by HURL.

☐ GST shall be Charged by the bidder @ \_\_\_\_\_% will be reimbursed by HURL.

*(Please tick in the applicable Box for GST)*

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Note: -

If the bidder quotes Zero "0" in the Applicable GST rate in the declaration OR doesn't submit the declaration then the GST amount would be deemed to be included in the per unit rate quoted by the bidder in the BOQ.

( To be used for contract closure)

# PROFORMA OF "NO DEMAND CERTIFICATE" BY CONTRACTOR

## (TO BE ISSUED BY THE CONTRACTOR)

NAME OF PACKAGE:

NAME OF CONTRACTOR:

LETTER OF AWARD/ NOA/ CONTRACT NO.:

DATED:

We, M/s ..... (Contractor) do hereby acknowledge and confirm that we have received the full and final payment due and payable to us from HURL (Owner) in respect of our aforesaid LOA/ NOA/ Contract No..... dated ..... including amendments, if any, issued by HURL, to our entire satisfaction and we further confirm that we have no claim whatsoever pending with HURL under the said Contract.

Notwithstanding any protest recorded by us in any correspondence, document, measurement books, and/or final bills etc., we waive all our rights to lodge any claim or protest in future under this contract.

We are issuing this "NO DEMAND CERTIFICATE" in favour of HURL with full knowledge and with our free consent without any undue influence, misrepresentation, coercion, duress, etc.

Date .....

Signature .....

Place .....

Name .....

Designation .....

(Company Common Seal)

(This certificate shall be accompanied by the Power of attorney of the signatory)