

Bharat Heavy Electricals Limited
Boiler Auxiliaries Plant
Ranipet - 632406

Outsourcing Department

Enquiry No. 652001E Dated: 09-09-2022

2022_BHEL_16769_1



OS / BHEL / MAIN/ ARC 2022- 23

With BHEL Material



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For reference of RS group, RS Number & respective Drawing please click the below link

https://bapscm.bhel.in/arc22_ad/osarc_index.php

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

பாரதமிகுமின் நிறுவனம்**BOILER AUXILIARIES PLANT, Indira Gandhi Industrial Complex,
RANIPET- 632 406 (Tamil Nadu)**Ph: 04172-284030,
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bsmanian@bhel.in
ssvasan@bhel.in**SECTION – I****NOTICE INVITING TENDER (NIT)****(This is only a request for an offer and not a Contract)**

E-Tender are hereby invited from experienced Contractors to finalize the Rates for entering into Annual Rate Contract – OS Main for the year 2022-23 for Complete Manufacture of APH (Air-Pre Heater), ESP (Electrostatic Precipitators), FANs (Industrial Fans), G&D (Gates and Dampers), FGD (Flue Gas Desulphurization) and other BAP products components as per respective BHEL drawings from the raw-materials issued by BHEL.

Enquiry No. & Date	652001E Date 09-09-2022
Due Date & Time for Submission Of Offer	20.09.2022 by 10.00 AM
Date & Time for Tender Opening (Other than Price Bid)	20.09.2022 by 14.00 PM
Place of Tender Opening	E procurement portal

This tender specifies a set of prequalification criteria defining the eligibility for the vendors to quote against a particular Rate Schedule/Group of Rate Schedules of this tender. The Bidders are advised to go through all the enclosed Tender documents terms & conditions detailed under **Sections I to XII, Annexures- A to K**, and Rate Schedules carefully before submitting their Offer.

All the **Annexures A to K** should be filled, wherever applicable by the bidders without fail for evaluation of their offer and **all necessary Self attested copies of the supporting documents** as required are to be attached.

The bid shall be submitted in three parts namely (1) EMD or Valid MSME certificate (2) Techno Commercial Bid and (3) Price Bid.

Kindly refer to the **Section-IV** – General Terms and Conditions of the tender for detailed procedure for submission of offers and details of exemption from submission of EMD for vendors registered with MSME

Kindly refer to Section-II to Section-IV for detailed scope. E Tender is hereby invited from experienced Contractors for the above scope.

Contact details / address for any clarification and for Offer submission.

Manager-(Contracts)
Outsourcing Department, Boiler Auxiliaries Plant
Bharat Heavy Electricals Limited, ,Ranipet-632406
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Manager(Contracts)/OS

	Bharat Heavy Electricals Limited (A Government of India Undertaking) Boiler Auxiliaries Plant, Ranipet – 632 406	☎: 04172-284030, 284158, 241170
AN ISO 9001 COMPANY	OUTSOURCING DEPARTMENT	
Enquiry No	652001E	Due Date & Time for submission of offers by 10.00 Hrs On 20.09.2022
Enq-Dated	09.09.2022	Date & Time of Tender opening By 14-00 Hrs On 20.09.2022
<u>SECTION II</u>		
Techno Commercial Terms & Conditions of the Annual Rate Contract 2022-23 for OS- Main		

Scope of the enquiry is to finalize the Rates for entering into Annual Rate Contract for the year 2022-23 for Complete Manufacture of APH (Air-Pre Heater), ESP (Electrostatic Precipitators), FANs (Industrial Fans), G&D (Gates and Dampers),FGD (Flue Gas Desulphurization) and other BAP products components as per respective BHEL drawings from the raw- materials issued by BHEL. Finished items are to be handed over to BHEL/Stores/Shipping.

- 1.0 Contract period for this Enquiry is One Year from the date of finalization of the contract. The Total Tonnage tentatively for this Rate Contract is **57724** MT**
- 1.1 For study and quoting of rates for various Rate Schedules, Representative Drawings, sketches, against the Rate Schedules indicated in the **ANNEXURE-C** for each category of fabrication/Assembly are made available for downloading. The sample copies of actual drawings are kept at BHEL office for vendor study on all working days from Monday to Saturday from 09.00 Hrs to 16.00 Hrs. (up to 3 days prior to the due date for submission of tender).
- 1.2 Vendors are requested to have a perusal of these drawings, QWI, etc., before submitting their offer. **The offer has to be submitted Only in ANNEXURE-C** duly signed therein by the authorized person of the Contractor with rubber stamp in the space provided in **ANNEXURE-C**. No deviation or change from the Tender conditions will be entertained and BHEL reserves the right to reject such offers.
- 1.3 Based on the Rate contract, to be finalized, the Firms shall accept and undertake all jobs awarded to them under various Rate Schedules allotted to them and execute them to the satisfaction of BHEL. Failure to comply with this requirement will be viewed seriously.
- 1.4 BHEL will conclude that the offer has been submitted by the firm, fully understanding all the requirements both explicit and implied and other conditions and accepting the same. After tender opening, contractors do not have any right to change / alter any of the conditions either partly or fully. Offers of any such firms doing so, will be rejected.

- 1.5 Vendors are requested to refer to **SECTION-IV** of this tender for (a) the applicability of EMD, (b) waiver available for EMD for MSME vendors and (c) procedure involved in submitting the offer in three parts.

2.0 FIRM RATES :

- 2.1 Please quote **FIRM** rates per KG., per MT., per No., per Meter., per Square Meter., etc. as called for in **Price Bid format ANNEXURE-D** which are applicable to the firm (for Conversion Work only). The rate shall include the following and the operations called for in the conditions indicated in the tender.
- (a) The rate shall include all consumables for welding as stipulated in the drawings/QWIs /welding procedures and any indirect materials required for fabrication.(Any change in the consumable specification implemented /effected after finalizing the contract shall be reviewed and the rate shall be adjusted accordingly.)
 - (b) The rate shall be inclusive of the Transport Charges (inclusive of Toll Charges, if any) for Collection of Raw Material with allowances as specified in **Clause 3.0** and other components from Stores at BHEL, Ranipet and Dispatch of finished goods to Shipping/Stores at BHEL, Ranipet. (The rate shall be common for all vendors irrespective of the location/distance of their factory from BHEL, Ranipet). No extra transport charges shall be allowed for multiple collection and deliveries.
 - (c) In case of transfer of raw material/semi-finished items from one vendor to another vendor, through IAWTV, the responsibility for collection of materials including the cost of transportation and handling etc. shall rest with Second Vendor (fabrication vendor dispatching the finished goods).
 - (d) The Rate shall include Transport charges (inclusive of Toll Charges, if any) for Return of balance material to BHEL, Ranipet Stores.
 - (e) The rate shall include machining of castings, forgings and fasteners which are supplied as free issue by BHEL, Ranipet.
 - (f) The rate shall include safe delivery of the finished fabrications as per QWIs and Drawings to withstand transit damages by rail/road.
 - (g) For safe delivery of export consignments as per QWIS / DRGS rates shall be quoted for the relevant extra rate schedules for payment of conversion charges shall be claimed as per remarks in the IR (**RS E72**). However, in these export cases recovery on normal safe delivery charges will not be done. The extra rate schedule rate for the same shall be quoted accordingly. Supply of packing materials for such export packing will be supplied by BHEL free of cost.
 - (h) The rate shall include for protecting machined/threaded areas to avoid physical damages while handling, transportation and storage.
 - (i) Splicing of Structural, shall be done with prior permission from Outsourcing, BHEL, Ranipet.
 - (j) All Painting charges including Red Oxide painting / application of rust preventive oil as applicable shall be payable extra as per applicable extra Rate Schedule.
 - (k) Stenciling of Finished Product for Identification as per Clause 8.5
 - (l) The rate shall include for rectification of raw materials such as straightening, removal of bend, twist, etc. wherever necessary.
 - (m) For stainless steel fabrication, plasma cutting is not in the scope of sub-contractor. (In case of shearing of smaller thick sheets up to 4 mm is in vendor's scope). Special purpose welding, wherein materials of different specifications are to be welded (items like welding of alloy steel

shafts of Fan damper etc.,) stress relieving of the same are not in the scope of sub-contractor. The rate shall be quoted considering this aspect.

- (n) The rate shall include **LPI wherever required as per QWIs / Drgs /Sketches**. All other NDT charges like MPI/UT/RT etc payable extra as per Clause 9.0.
- (o) Offering the jobs for inspection to BHEL /Customer or its authorized inspection agency is in Contractors scope and the quoted rate shall include the same.
- (p) For Louver & Biplane dampers/ Gates, the rate is inclusive of testing for its operations with manual mode.
- (q) The description and PGMAs given in each Rate schedule is only indicative. Any items of similar nature shall be loaded against Rate Schedule based on the work content. For payment purpose, only Rate schedule numbers shall be considered.
- (r) Wherever Trial assembly is called for in the drawings/QWIs or by Inspection, the charges as per extra rate schedule shall be payable extra. It should be indicated in IR subject to approval by the concerned field officer.
- (s) Wherever jobs are beams etc., split in to two parts in view of ODC Constraints such as Columns in X48, Monorail the Trial assembly charges are not applicable unless specified in the drawing/certified by BHEL/QC.
- (t) **Note 1:** As the charges for shot blasting, painting, heat treatment and NDT (Other than LPI) are payable extra as per extra Rate Schedule, the rate quoted **shall not include** the cost of shot blasting, painting, heat treatment and NDT.

Note 2: The rates to be quoted for Rate Schedules requiring the intermediate operations (including shot blasting, painting, heat treatment, NDT) **shall NOT include** the cost of TO and FRO transportation and handling of the products to the respective firms and back. Where as separate Rate Schedules are added for the same. Hence whenever intermediate operations are required to be carried out, the Charges for TO and FRO Transport is payable extra.

Note 3: Vendors are requested to quote the rates for each Rate Schedules (RS) in Rs. per MT (OR) as applicable for conversion, scope of work, and meeting the terms and conditions of this tender in full.

- 2.2 The rates shall be FIRM and not subject to any variation/escalation on any account during the validity of this Contract period. The rates are operative for placement of job work orders valid for **One Year from the date of finalization of the contract** on Rate Contract basis to be entered into between BHEL and the Contractor.
- 2.3 VACANT
- 2.4 VACANT
- 2.5 BHEL does not guarantee ordering of any minimum quantity or does not guarantee more share for the lowest tenderers. However, if the L1-contractors are performing well in terms of sequential dispatches and required tonnage interalia meeting the requirements laid down above, the same will be considered during loading.
- 2.6 "Notwithstanding anything to the contrary, including, but not limited to, provisions relating to extension of time and compensation/or delay, time shall be the essence of the Contract."
(The scope of Machining / fabrication, Customer approved Quality plan will be indicated in the PO as Addenda).

- 2.7 In case if the quantum of load is beyond the capacity of vendors in the opinion of BHEL or for shorter delivery requirements, BHEL reserves the right to extend/award the contract for manufacture of items covered herein to other probable new or alternative sources, without prior intimation to the contractors and BHEL's decision is final in this regard.
- 2.8 The Contractors are responsible till the Finished/Semi-finished components are safely deposited to BHEL, Ranipet. They should carefully pack, load, stack by providing wooden reapers, etc. for avoiding damage during transit and lash the consignment properly at the time of despatch so that the consignment reach the destination safely.
- 2.9 Job Work orders will be issued after entering into Rate contract with the Sub-Contractors. Discrepancy in the JWOs if any, has to be settled immediately then and there within 20 days from the date of Job Work Order.

3.0 Raw Material Issues and Accounting :

The weight indicated in GMS/DRG/ and or as per Scope indicated in the PO addendum will be the basis for accounting of raw materials issued. For billing conversion / transportation charges if any the weight indicated in GMS/Drawing only will be considered. Raw materials will normally be issued with process allowance as given below for economical operations.

Description	Invisible wastage	Working allowance	Total process allowance
Sheets	2%	1%	3%
Plates	2%	2%	4%
Structurals (Beams, Channel, Angles, Flats Rods, Pipes, Tubes, Packing etc.,)	0.5%	0.5%	1%
** Plates of PGMA's 7xx42, 7xx44, 7xx45, 7xx46, 7xx47, 7xx49 and 7xx50. The number of permitted joints for these PGMA's are detailed in ESP:SQP:284:(Latest revision)	0.5%	1.5%	2%

** Generally cutting plan need not be required to submit by the firm for the plates of PGMA's 7xx42, 7xx44, 7xx45, 7xx46, 7xx47, 7xx49 and 7xx50 .(clause 6.4a not applicable). However, Cutting plan for the plates of PGMA's 7xx42, 7xx44, 7xx45, 7xx46, 7xx47, 7xx49 and 7xx50 should be submitted,

- if the issued weight is less than the demanded weight (for the purpose of completion of job),
- if the Issued weight is more than the demanded weight (for the purpose of declaration of off-cut).

If the difference (between the Issued and demanded weight) is less than the off-cut norms(Cl.5.0), cutting plan need not be submitted by the firm for the plates of PGMA's 7xx42, 7xx44, 7xx45, 7xx46, 7xx47, 7xx49 and 7xx50 even if the weight is more than 5MT.

For all other cases cutting plan is to be submitted before taking up the job for fabrication as per clause 6.4.

Cleared material shall be collected by the Contractors at the earliest without any delay. If BG limit becomes a constraint to issue the cleared materials, vendor shall arrange for additional BG within 2 weeks time from JWO date/material cleared date, prior to material collection.

- 3.1 The Cutting Plans should be of "Optimum only", in order to maximize the utilization of the material issued, specifically where the left out material can better be used for other jobs. The balance material, if any after Cutting Plan approval/ machining / fabrication shall be returned to our Stores at Contractor's cost. BHEL reserves the right to call for the returning of the balance material not withstanding its designation (ie. Whether Scrap / Big-size-Scrap).

- 3.2 Scraps/Strips with width/length > 70mm and circular blanks of D80 arising in screen sheets **(RS No. 71A)** are to be transferred in full to make Insulation Retainers and accounted accordingly. The Sub-contractors shall request for work order allocation for retainers, manufacture and supply the retainers and settle the material accounting accordingly.
- 3.3 Balance material arising out of issued quantity shall be returned by sub-contractor. However, if original issued quantity is insufficient due to the shape or size required to be cut, cutting plans may be furnished for BHEL approval WITHIN ONE WEEK OF DRAWAL of Raw materials(However for Spiral Casing, Suction chamber and Silencer required for FAN Assy the Cutting Plan to be submitted within 15 days). Any off cut available from the original issue should be returned to us as per our approved cutting plan. Wherever the materials are supplied by BHEL for mockup test, welders qualification test, Etc., the material is to be treated as scrap on weight basis and material accounting to be settled accordingly.
- 3.4 Wherever firm comes across receipt of excess material due to the error in GMS/Drawings that is to be brought to the notice of Head/OS immediately. Since material is issued on weight basis, any excess material received on account of section weight variation or otherwise, the same is the property of BHEL, notwithstanding the status of MAS. Such information shall be declared by the supplier to BHEL immediately.
- 3.5 If the Fabricator fails to produce or properly account the materials so issued, BHEL, Ranipet will have the right to take further action as deemed fit including recovery of the value of the materials along with the respective administrative charges and statutory levies from the running bills of the Fabricator / temporary suspension of load / termination of contract / de-listing.
- 3.6 Any act of Contractor resulting in dishonest misappropriation or conversion of the materials so issued for his own use shall constitute the offence of Criminal Breach of Trust under Indian Penal Code and /or such other offences under any other provisions of law and the Contractee shall have every right to proceed against the Contractor under Criminal Law in order to ensure proper punishment to such perpetrator/s for the said offence/s. In such cases, BHEL shall take all necessary steps to recover the material available with those firms.
- 3.7 Movement of BHEL materials from Contractor's premises to any other Firm(s), if necessary, for the purpose of production related work shall be documented properly, signed by the sender & receiver and the same to be authenticated by the concerned OS official, otherwise such materials will be treated as shortage by BHEL Accounts.
- 3.8 Protecting the material issued by BHEL under safe custody until completing the delivery as required is vendor's responsibility. All the Government statutory requirements with regard to the issue of materials under GST rules shall be applicable for the entire duration of the contract. Any default by vendor towards the same will be adjusted from the subcontractors bills as per the GST rules.

4.0 Working Allowance:

After scrutinizing the design documents, whenever additional allowance is required due to more volume of machining process, the process planner is authorized to increase/decrease the working allowance. Cutting plan must be submitted by the vendor for such cases. This is done to avoid unnecessary raise of supplementary MIV. Whenever the demand weight is low and less than off-cut weight, the process planner is entitled for giving net weight credit (NWC) to the firm, instead of raising MIV.

4.1 Wherever shearing and punching, raisal of supplementary MIV are involved, No process allowance is applicable. **Process allowance is applicable for profile and zigzag cutting process.** No invisible wastage will be allowed for the following:

Sheet 2 mm in Screen Sheets 7XX 08 PGMA's, Stainless steel material, dia 8mm bright bar for EE holder, Retainers processed by Punching, haste alloy material in Damper & Gate Seals, Shock Bar Plate of RS No :160 and perforated sheets 2mm used in FAN Silencers.

4.2 For HASTE ALLOY MATERIALS the weights of component as per drawing will hold good for accounting of raw materials. Raw material will be issued in running meter for haste alloy material and since coils are in running meter, there will be no process allowance for all shearing operations. The Carbon steel (CS) portion of Haste alloy welded seals must be painted with one coat of synthetic enamel paint or as per specific requirement of the customer, the painting charges will be payable extra as per extra rate schedule and all seals must be packed as per BHEL'S requirement. The contractor will have to return all the balance material of haste alloy strip, in issued width, to BHEL/Ranipet Stores at contractor's cost.

5.0 Scrap / OFF-Cut Norms :

Sl	Description	Scrap Size (mm)	Off Cut Size (mm)
1	CS/AS Sheets & Plates	Below 500 X 500	500 X 500 & above
2	Rolled Sections Including Structural(other than CS/AS rods up to dia 40mm / tubes / pipes): Length	Below 1000	1000 & above
3	CS/AS Rods greater than dia 40mm, RHS, SHS, Tubes and Pipes: Length	Below 500	500 & above
4	SS Non Ferrous Sheets & Plates	Below 500 x 250	500 x 250 & above
5	SS Non Ferrous Structural, rods, tubes, pipes: Length	Below 250	250 & above
6	Haste Alloy Length	Below 250	250 & above
7	Big Size scrap Length x Breadth CS/AS	(2500 & above)X (150-249)	-----
8	WSTE/NAXTRA Materials.	Below 500 x 250 Below dia 350	500 x 250 & above Dia 350 & above

The issue of various wool, CAF Joints, Asbestos rope etc. will be as per required Quantity. Excess material issued if any will be treated as scrap in view of practical problems (Re-Packing, verification, receipt, accounting, storage etc.)

- a) All Off-Cuts (Ferrous, Non-Ferrous, SS etc.) are to be returned to BHEL stores with RSV at contractors' cost.
- b) Returning of Off-Cuts/Prime material to BHEL is mandatory. Failure to return the materials (prime material/off-cut) will entail recovery of the cost of materials along with GST & other Statutory levies as applicable plus departmental/administrative charges fixed from time-to-time **cl.6.7** from any of the running bills of the supplier/other means of recovery available for the non-returned quantum. The non returned quantum of material (Prime/off-cut) will be as per FMAS approved by BHEL.

c) Wherever the materials are supplied by BHEL for mock-up test, welders qualification test etc. (except for Nitriding & Case Hardening), the same will be treated as scrap as classified above.

5.1 All scraps (Ferrous, Non-ferrous, SS, CS/AS, WSTE etc.,) including Turnings and borings need not be returned to BHEL. Contractors can dispose the above scrap, on completion of Final-Material-Accounting for the respective IP. Necessary cost shall be recovered along with GST and any other statutory levies if applicable.

5.2 The Rate Schedules for recovery of different types of scraps are as follows:

Sl.No.	Description	Rate Schedule
01	Recovery rate for Scrap of CS/ AS, Asbestos, wool, CAF etc.,	E41
02	Big size scrap (CS/AS sheets/plates)	E42
03	Recovery Rate for Scrap of Stainless Steel (NON Magnetic), NON –Ferrous Metals.	E43
04	Recovery Rate for Turnings and Borings scrap of CS/AS	E44
05	Recovery Rate for Turnings and Borings scrap of SS Non magnetic , Non Ferrous	E45
06	Recovery Rate for Turnings and Borings Scrap of Stainless Steel- Magnetic	E46
07	Recovery Rate for Stainless Steel magnetic scrap	E73

As far as the Recovery RS u/E44, E45, E46 the rate finalized under OS-ARC-LDPP-ARC-2022-23 will be applied for this contract also.

5.3 For machining/drilling jobs, the Turning & Boring scrap generated shall be accounted and recovery will be made as per Scrap norms as given in **Cl. 5.0 , 5.1 and 5.2**. For SS and nonferrous 100% of T&B scrap will be recovered.

6.0 Disposal of Scrap and Return/Accounting of Balance Materials:

Contractors who wish to dispose off the scrap from their end are permitted to do so subject to the following conditions:

- They should possess GST Registration under GST Act and GSTIN NO. under GST Law. Copies of the same shall be furnished to Manager /Finance/BHEL, Ranipet.
- The recovery for the above all categories of scrap will be as per the Final Material Accounting Statement (FMAS) approved by BHEL and as per the ARC Rates signed by BHEL and Contractors.
- However GST applicable for all the scrap disposed off at the Contractor's end will be to their account. BHEL will not reimburse this amount. Necessary GST formalities are to be followed by the Contractor.
- GST on scrap will be recovered as applicable
- Scraps shall be disposed off only after submission and approval of Final Material Accounting Statement (FMAS) by BHEL

6.1 Wherever attested materials are issued, the balance materials are to be returned only in the attested condition. Otherwise **Cl. 6.7** below will be applicable.

6.2 The materials rejected as PDO due to reasons attributable to vendors like (a). Faulty workmanship, (b). Improper storage of raw material issued by BHEL (c) improper handling (d) improper packing etc.. Will entail recovery at prime material's cost as per **Cl. 6.7**.

6.3 The materials rejected due to other than reasons **u/cl.6.2** shall be returned to BHEL, Ranipet Stores failing which recovery will be made as per **Cl. 6.7**.

- 6.4 The material supplied by BHEL, Ranipet shall properly be utilized as per the Scope in Contract/drawings/QWIs in job work order to meet the design and quality requirements of the product. Hence economic cutting plans are required to be submitted by the Contractor for approval in the following cases:
- (a) For sheets, plates & structural where the original issued / transferred(IUTV) quantity is more than 5 MT.
 - (b) Whenever the issued quantity is insufficient owing to shape or size.
 - (c) All stainless steel/Haste alloy/Non-ferrous items.
 - (d) Excess issue in weight against demanded quantity wherein the excess quantum is more than off-cut norms (vide Cl. 5.0).
 - (e) For items like flanges, rings, cover plates, etc. where demanded weight is in excess of net weight with higher rate of process allowance. (However cutting plans need not be submitted where the collected material weight and net weight difference which is less than off-cut weight). In any case, cutting plan need to be submitted for issue weight 5 MT and above.
- 6.5 However, in working out such economic cutting plans, it is to be ensured that the details furnished by the contractor are as per current GMS, Job works order , IOM and meets the requirements as prescribed in QWIs shall have to be adhered to. After the approval of the cutting plans, any off-cut, available from the issues made either in original or in supplementary shall be returned to the BHEL, Ranipet Stores at the Contractor's cost. The cutting plans as approved by the Outsourcing, BHEL, Ranipet shall be kept at the Contractor's premises and to be made available as and when demanded by the BHEL Officials or their representatives. It should also be ensured that the jobs shall be as per the approved cutting plans. All returnable materials (prime/off-cut) as per Cutting Plan approval covering letter shall be returned to BHEL, Ranipet Stores immediately without waiting for the W.O./P.O completion to avoid any payment hold and subsequent recovery.
- 6.6 Whenever machining / fabrications are done without proper approved cutting plans, any loss of material arising due to the same will be recovered at prime materials cost including the process allowance indicated in CL. 3.0 & 4.0 plus Departmental / Administrative charges fixed from time to time (vide Cl. 6.7.). In addition, statutory taxes, duties and levies etc., applicable will also be recovered from the Contractor and also other actions as deemed fit will be taken and no claim for refund will be admitted by BHEL, Ranipet. BHEL's approved cutting plan is final.
- 6.7 Failure to return the materials (prime/off-cut) will entail recovery of the value of the materials plus departmental/administrative charges fixed from time to time. Currently the departmental/administrative charges are 25% for indigenous material and 50% for imported materials on the material value. In addition, statutory taxes, duties & levies as applicable will also be recovered and no claim for refund will be admitted by BHEL, Ranipet. The rate of departmental and administrative charges as applicable from time to time irrespective of the date of failure will be applicable. Besides penal interest will be levied on the material value, for the period starting from date of issue of material.
- 6.8 Where an increased allowance over the process allowance as stated in CL. 3.0 & 4.0 is necessary, the same will be issued after scrutinizing and approval of cutting plans.
- 6.9 For the purpose of material accounting after completion of a particular WO, BHEL/OS department will issue a preliminary material accounting statement thro' E-mail, the next day of completion.

- (a) The Contractor shall respond within 7 days of receipt of Preliminary MAS, Either by Accepting the Pre-MAS OR submit their own MAS (Contractor/Firm-MAS) in the case if the Pre-MAS is not in line with the requirement.
- (b) Any discrepancy Like weight correction, DU correction, variation in off-cut /scrap quantum etc., as indicated in Pre-MAS will have to be reconciled with the Material Accounting section with necessary proof of documents within a week from the date of issue of Pre-MAS. If reconciliation is not done within a week, it will be treated that Pre-MAS is correct in all respects
- (c) If the Pre-MAS is accepted by the Contractor, BHEL will prepare, within 7 days, the Final-MAS.
- (d) In case if Pre-MAS is not accepted by the Contractor, the Contractor/Firm-MAS submitted, if any, by the Contractor will be considered and if no such Contractor/Firm-MAS is submitted also, BHEL will prepare a Provisional-MAS and send through email, within a week.
- (e) If the material (CS/AS) to be recovered as per BHEL MAS working is within plus or minus 10 Kgs with respect to Contractor/Firm-MAS, then final MAS will be released with out Pre-MAS acceptance.
- (f) For Deleted /Diverted Job Work orders, Final material accounting should be settled within 14 days time, after deletion/diversion. Otherwise, BHEL will prepare Final-MAS on completion of 14 days of IOM date on suo-motto basis. For exceptional cases with reasons attributable to BHEL, a further relaxation of 1 week will be given on the certification of respective field officers (Please Refer **Section VI** on work-flow for details).
- (g) The response if any received from the Contractor, will be studied and considered and Final MAS will be prepared. In case if no response is received, the provisional MAS will be treated as 'Final' MAS and accordingly, Final material accounting statement (FMAS) will be issued. BHEL will prepare the FINAL MAS within 30 days of DC control.
- (h) After completion/cancellation of (Issue Position) IP the Contractor has to submit Contractor/Firm MAS comprising material issue cum working details, contract and receipt statement as per the format specified by BHEL for entire IP within 7 days from the date of delivery of last despatch or on date of submission of 100% invoice whichever date falls earlier of the respective IP. Further to, Contractor should certify the submission of bills with 4 (5)(a) Challan's duly signed with seal in part II including completion of all transactions like cutting plan approvals, return of BHEL Material on RSV, IUWTV controls and submit along with MAS.
- (i) Once the IP is closed as mentioned above no re-opening of IP except recovery from running bills will be entertained.
- (j) The contractor shall be bound by the accounts, statements acknowledgement of materials, BHEL material issue documents, receipts etc., wherever signed by their representative.
- 6.10 Any balance material to be returned to respective Stores-Ward at BHEL / Ranipet immediately after cutting plan approval without waiting for IP completion.
- 6.11 Recovery towards non-return of balance material as per FMAS will be done as per Contract norms along with statutory taxes, duties & levies as applicable from any one of the running bills OR from other means of recovery available Hence, any correction after the issue of FMAS, the job work order will be treated as closed in all respects thereby any requests towards refund of recovery, if any, will not be entertained.

- 6.12 Wherever MAS not required to be submitted, in case if the material (CS/AS) to be recovered as per our MAS is within (+) or (-) 10 Kg and there is no material collection is involved, BHEL will prepare Final-MAS on suo-motto basis and Recover/Net-weight credit will be provided accordingly.
- 6.13 Please note that the Contractor is responsible for prompt material accounting and settlement of outstanding dues towards non-return of balance material. Repeated occurrence of inordinate delay in settling the material accounting / outstanding dues will entail BHEL the right to terminate the contract forthwith or to impose temporary suspension on further loading at the discretion of BHEL, Ranipet. Also in case of non-return of material or non-submission of material accounting statement, BHEL reserves the right to en-cash the Bank Guarantee / Fixed Deposit Receipt submitted by the Contractor and initiate legal action against the Contractor against this contract OR any other contract, in addition to the other means of recovery from contractor, available with BHEL.
- 6.14 The raw material issued to the Contractor as free issue shall remain the property of BHEL, Ranipet. The Contractor shall use the above material only for the execution of BHEL'S contract/addenda and for no other purpose whatsoever. The Contractor shall be responsible for the full value thereof to be assessed by BHEL, Ranipet whose decision shall be binding on the Contractor, The Contractor shall be liable for the loss or damage to such property while such property is in the possession or under the control of the Contractor, their employees, workmen, representatives or agents or any other person connected with the Contractor. The Contractor should execute an agreement in **Rs. 100/-** non- judicial stamp paper and maintain the secrecy of the design, know how of BHEL products.
- 6.15 All the materials of BHEL, Ranipet shall under no circumstance be hypothecated/leased/liened /encumbered to any bank or to any lending Institution or to any party whomsoever. It should not also be shown as the Contractor's assets in any of the statements of the Contractor to any party.
- 6.16 The Contractor shall, whenever required, produce the materials supplied as free issue by BHEL, Ranipet in the form of raw material, semi-finished or fully completed boiler components to BHEL officials visiting the Contractor's unit for verification purposes. If the Contractor fails to produce or properly account the material so issued, BHEL, Ranipet will have the right to take further action as deemed fit including recovery of the value of materials along with the respective administrative charges and statutory levies from the running bills of the Contractor (with BHEL, Ranipet and with other Units of BHEL) and also any or all of the actions such as, Suspension of business dealing, temporary suspension of loading, termination of Contract, holding the payment due etc., Similarly for the claim made by any units of BHEL (on account of such vendor) to the BHEL, Ranipet, the Bank Guarantee submitted to BHEL, Ranipet will be encashed.
- 6.17 As and when required/applicable, BHEL, Ranipet will transfer(or advice for returning u/RSV) the balance material available including scrap size available for which PO/Issue Position(IP) is not closed, from one Contractor to the other contractor/other IP of the same contractor. For this, necessary credit will be given in material accounting, the material transfer emanating from Outsourcing, BHEL, Ranipet is to be honored by the Contractor within 15days or otherwise recovery will be made at the prime material cost., Any difficulty for effecting such transfer shall be brought to the knowledge of OS/ BHEL, Ranipet officials immediately.
- 6.18 The Contractor is responsible for submission of CLEAR material accounting statement (MAS) i.e. ensure that all transactions are completed (including IUWTV/RSV, supplementary material collection, submission of cutting plan, etc.) within 7days from the date of completion of work

order & failing, without prejudice to other rights under Contractor, law or otherwise, which MAS will be closed suo motto basis and recovery of the scrap/off-cut will be effected after adjusting of balance payment due to the Contractor from any of the running bills. Delay in settling the material accounting will entail BHEL the right to terminate the contract forthwith or to impose a temporary suspension on further loading at the discretion of BHEL, Ranipet.

- 6.19 For any IP if the total requirement of carbon steel plates of 5mm to 10mm thick is 20 kgs or less, Contractors have to use the required material from the balance material of other work orders. However, these quantities will be adjusted as Net Weight Credit (NWC) during material accounting.
- 6.20 Raw materials will be loaded by BHEL, Ranipet either in lorries/trailers/ bullock carts and can be overseen by Contractor's representative at BHEL Stores / Shop. Shortage or variation in quantity, size and weight shall not be accepted once the material leaves BHEL, Ranipet Stores. Raw materials will be issued by BHEL, Ranipet, only after the receipt of necessary Bank Guarantee as per **Cl.20.0 and 21.0.**
- 6.21 Where an entity (whether a proprietorship, partnership, company, Hindus Undivided Family or otherwise) commits a default or breaches the Contract and the proprietor/ partner/ director/ member of such entity is also a proprietor/ partner/ director/ member of another entity that is registered with BHEL (in Ranipet or any other unit of BHEL), BHEL shall have the right to recover losses due to the default or breach, whether direct, indirect or consequential, either from the defaulting/ breaching entity or the other said entity or both. Such right shall also include the right to encash any security (in any form such as but not limited to bank guarantee, demand draft, FDR, etc.) furnished by either or both entities. Without limiting the applicability of the foregoing, it shall not be a defence to the other said entity for enforcement of such a right that:
- (a) Both entities are legally distinct/ separate entities, or
 - (b) The management of the entity/ partners/ directors/ members of such other entity were not aware that the proprietor/ partner/ director/ member of the defaulting/ breaching entity was also a proprietor/ partner/ director/ member of the other said entity.
- 6.22 The Contractor shall be bound by the accounts, statements acknowledgement of materials, receipts etc., wherever signed by their representatives.
- 6.23 The value of the materials and statutory levies towards non-return of off-cut/scrap wherever applicable will be calculated at the rate prevailing as on the date of accounting and demand thereof by BHEL irrespective of the date of failure for return of the off-cut/scrap by the Contractor.
- 6.24 For the Contractors who come under **Cl.28.0(B)**, the scrap arising out of the issued raw material shall be disposed off as per **Cl.6.0.**
- 6.25 For TAPH, Gates and Dampers jobs where generation of turnings and borings scrap is involved, the Contractor shall declare the quantum of turnings and borings scrap to be generated duly certified by OS and only 70% of the declared T and B scrap will be recovered as per Recovery Rate Schedule **RS E44 to E46** Taxes and other statutory levies as applicable at the time of recovery. In these cases, no invisible wastage will be allowed in addition to the non-collectable scrap of 30%. Balance materials will be treated as off-cuts/scrap as the case may be. However for SS turnings & boring being generated the Subcontractor has to declare 100% of the T&B generated and recovery as per RS E45 with Taxes & other statutory levies will be made. In this case NO invisible allowance will be applicable. Balance material will be treated as offcut/ scrap as the case may be

- 7.0 Surface Preparation:** Surface preparation to a cleanliness level of Swedish Standard Protective Coating (SSPC) Sa 2 ½ (near white metal finish) i.e. " Removal of loose mill scale and loose paint, to the degree specified, by the impact of abrasive blast propelled through nozzles or by centrifugal wheels. Near white blasted surface shall be free of all visible oil, grease, dirt, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining limited to not more than 5% of the surface area. Such staining may consist of light shadows, slight streaks or minor discoloration caused by stains of rust mill scale, or stains of previously applied paint. The surface preparation to Sa 2 ½ (near white metal finish) and immediate painting is to be is to be done, only at the BHEL approved sources allocated by BHEL / with the approval of BHEL in case of Self blasting and painting.
- 8.0 PAINTING:** All painting works shall be part of main fabricators responsibility, including cost of paints. However extra rates are payable as per extra rate schedules (listed under Heading "Charges for Painting" in **Section-III-D** titled "List of Extra Rate Schedules"). The fabricators are advised to quote their rates for each Rate Schedule . ALL PAINTING CHARGES (PRIME/FINISH/SPECIAL PAINTS ETC) PAYABLE EXTRA AS PER EXTRA RATE SCHEDULES. The paints shall be procured from BHEL-Approved paint manufacturers list given in **Section-VIII**
- 8.1 The finished/Semi-finished components shall be cleaned by power operated wire brush and painted with primer as per QP/ QWIs/ CIS purchased from our approved paint manufacturer's list hosted with this tender as **Section VIII**.
- 8.2 For all painting over and above the Primer painting whenever required, the finish paint as per applicable QWIs/CIS shall be applied.
- 8.3 For all painting including primer painting, the charges shall be payable as per applicable extra rate schedule.
- 8.4 For painting of Extra Coating thickness with reference to coating thickness mentioned in the extra rate schedule description pro-rata charges shall be payable extra based on IOM issued by BHEL/OS.
- 8.5 Unless stated specifically Foundation material, columns up to zero level need not be painted with red oxide. Further, the fabricated semi-finished components shall be legibly stenciled with the Project Name, Work Order Number, DU Number , quantity, weight, Sub-contractor's code Number, match mark no., etc., for identification and dispatched as may be advised.
- 8.6 Sub-contractor code number alone shall be punched using ½ inch letter punch and bordered suitably for easy identification. All the identification marks shall be coated with an overcoat of transparent varnish to protect against weather.
- 8.7 Application of one coat of the specified primer painting is to be done immediately after Blast cleaning as per the stipulated dry film thickness (DFT) normally varies from 35 microns to 100 microns.
- 8.8 Machined surfaces and Retainers shall be applied with rust preventive oil in place of red oxide.
- 8.9 Whenever blasting by Grit/shot for surface preparation is to be done, the applicable ARC rates will be payable extra. The allied To & Fro Transport charges are also payable extra as per the respective extra Rate Schedule and a self certified declaration from the fabricator (certified by

Field officer) is to be enclosed by the concerned fabricator , along with their respective invoices to the effect that the components are blasted not in their works but else where .

8.10 Whenever galvanizing is to be done the charges for Galvanising and the allied To & Fro Transport charges are also payable extra as per the respective extra Rate Schedule. Whenever the galvanizing is done at Galvanizing source, who signed Annual Rate Contract **(ref. Section-VIII)** exclusively for galvanizing rate schedules, the charges for galvanizing will be directly paid to Galvanizing supplier against their Job Work order and respective invoices.

9.0 UT/RT/HT/SR: The Ultrasonic Testing, Radiographic Testing, Heat Treatment and Stress Relieving as called for in the drawing/QWI/JWO are to be carried out by the fabricator, through the approved agency of BHEL. Approved agencies are as per **Section-VIII**. For Charges for carrying out of the above operation is payable extra as per the extra rate schedules and allied To and Fro Transport charges are also payable extra as per the respective extra Rate Schedules. In case there is no approved agency near vendor's works, vendor may locate suitable agency for RT, MPI, LPI, SR and UT and get them approved by BHEL before commencing the job. For such approval, the agency has to fill up relevant Vendor Registration Form available with BHEL.

10.0 EXTRA RATES FOR CONVERSION:

Rates for the special requirements like Special Painting, Heat Treatment, Transport Cost for Intermittent Operations etc. other than RS specified in this tender are to be finalized through Extra Rate Schedules in this tender. Totally 75 numbers of Extra RS involved.

Rates as per extra rate schedules shall be payable extra as per remarks in the IR. The extra Rate Schedules are applicable for all the contractors. **The rate finalized for RS-NO. 185A for "Surface preparation equal to shot blasting " will also be operated under Extra Rate Schedule-E08.**

Any other extra work not covered under extra RS, but incidental to the completion of fabrication job till handing over to BHEL, shall be deemed to be part of the main fabrication rates.

10.1 **Conversion of Sections:** In a situation where flats of various sections called for in the assembly are not available, plates will be issued for conversion into flats. Also, you may be required to convert channels/angles to another size for which extra charges are payable (as certified by OS officials based on certification made in the IR) for the net weight of finished section as per the Extra Rate Schedules.

10.2 whenever substitution are offered which involves higher / lower work content, the charges shall be paid extra/ recovered as the case may be.

10.3 **For Additional Joints:** In case any additional joints made over and above the drawing /QWI requirements with prior approval of BHEL owing to the non-availability of required size of raw materials is applicable only for the following, rate schedules. **Rates for extra joints includes cost of LPI/MPI charges also (Excluding RT/UT).**

The Sub contractor can claim extra rate as per applicable extra rate schedules based on IR and certification from OS expediting officials..

10.4 For all jobs wherever optional joints are mentioned in the drawing, no extra rates are permissible. For Ducts no extra rates are permissible for joints.

10.5 The fabricator can claim extra rate as per applicable extra rate schedules for any additional joints put up by fabricators during fabrication, over and above called for in the Drawings and based on IR and certification from OS officials for applicability of extra rate for additional joint enclosed along with fabricators invoice.

A) Extra Rate for additional joints made on Plates/ Sheets are applicable only for the following Rate Schedules:-

- (i) Rate Schedules 51 Series (Cut to size/shape - joints made in sheets & plates),
- (ii) Rate schedules 53C & 59D
- (iii) Rate Schedules 76A to 76G, 77H to 77S, 117K, 117L, 117M, 118K, 118L, 119K (only on Gate & Dampers for Blades)
- (iv) Rate Schedules 137A, 137C to 137E, 139A to 139F, 139R to 139V, 140A to 140C, 140R to 140V (Fabrication of Built up Roof Beams, Columns of H, II Box type Beams only),
- (v) Chimney shells fabrication under RS 175C, 175D, 176C, 176D & 176E
- (vi) SS corner tubes RS No. 52S (Applicable for no of joints made 2 and above only)

Applicable Extra RS No for 10.5(A)

SL NO	Description	Rate Schedules
A	Sheet upto 4mm/RM (CS/AS/High Tensile)	E77
B	Plate 5mm to 10mm/RM (CS/AS/High Tensile)	E78
C	Plate 12mm to 20mm/RM (CS/AS/High Tensile)	E79
D	SS Sheet upto 4mm/RM	E99
E	SS Plate 5 to 10mm/RM	E100
F	21-25mm/RM (CS/AS/High Tensile)	E87
G	26-32mm/RM (CS/AS/High Tensile)	E88
H	33-36mm/RM (CS/AS/High Tensile)	E89
I	37-40mm/RM (CS/AS/High Tensile)	E90
J	41-50mm/RM (CS/AS/High Tensile)	E91
K	51-56mm/RM (CS/AS/High Tensile)	E92
L	57 & above /RM (CS/AS/High Tensile)	E93

B) Extra rates for additional joints made on structural are applicable for the following Rate Schedules.

- (i) Rate Schedules 51 Series A (Cut to size/Shape- joints made in structural),
- (ii) 53B , 53C & 59D Column structural

Applicable Extra RS No for 10.5(B)

SL NO	Description	Rate Schedules
01	Joints of beam/channel upto 200mm/Jt	E80
02	Joints of beam/channel 201 - 300mm/Jt	E81
03	Joints of beam/channel 301 - 450mm/Jt	E82
04	Joints of Angles upto 75X75X8	E83
05	Joints of Angles above 75X75X8 upto 100X100X12	E84
06	Joints of Angles above 100X100X12	E85
07	Joints in beam/channel above 450mm	E86

10.6 **Extra rate for Radiography and UT alone are applicable.** However, **NO** extra rate is allowed for MPI/LPI. Rates as per extra rate schedules shall be payable extra for Grit/ shot blasting, painting (all type) of painting, HT & NDT charges (Other than LPI) etc.,

11.0 TRANSPORT CHARGES : Tender calls for the offers on F.O.R-Destination basis (ie. Freight charges inclusive in the quoted price), hence No Transport Charges payable extra for the Raw Materials / Components collected from BHEL and return of finished items vice-versa.

11.1 Incase of transfer of raw material/semi-finished items from one vendor to another vendor, through IUWTV, the responsibility for collection of materials including the cost of transportation and handling etc.. shall rest with Second Vendor (fabrication vendor dispatching the finished goods).

11.2 No extra charges towards transport will be allowed for multiple collection & deliveries (due to various reasons including 1. Part-qty available for collection, 2. Part-qty required to be delivered by vendor.

11.3 **Additional Transport Charges:** Transport Charges incurred by the vendor for any special intermittent operations other than specified in the Rate Schedules or any additional movement requested by BHEL officials in writing, the transport charges payable extra as per the Extra Rate Schedules available in the contract.

11.4 For return of PDO materials thro RSV (PDO other than reasons **u/cl.6.2** like issue of faulty materials, non suitable materials, any drawing revision etc), TO & FRO transport charges as per applicable extra rate schedule shall be payable extra.

11.5 The Rate payable against the Extra Rate Schedules are inclusive of Toll charges, if any.

12.0 Recovery of Transport Charges: If the materials are delivered/collected by BHEL/BHEL approved transport contractor when the scope of transport is with vendor, the freight charges incurred by BHEL will be recovered from the vendors.

12.1 If Purchase Order is placed with delivery destination other than BHEL-Ranipet, the respective transport charges for delivering the finished job is to BHEL's Account and the amount of transport charges (already included in the rates finalized for the RS) for delivering to BHEL-Ranipet is deductible.

12.2 **Dispatch of finished goods Direct to Site (DTS):** Wherever necessary, BHEL may advise fabricators to dispatch finished goods directly to site with transport charges to BHEL's Account. The scope includes loading of finished products on truck for dispatch to respective BHEL-site offices/BHEL's-Customer. In such cases the cost of transportation from Contractor's works to BHEL,Ranipet, not incurred by the vendor shall be recovered from the vendors.

For all the above, the recovery of Transport Charges will be made as per Extra RS E07X, E07Y and E07Z which is to be finalized in this tender.

13.0 PAYMENT FOR EXTRA CHARGES : 100% Payment will be made for extra charges against Invoice supported by acknowledged Delivery Chelan and Inspection Report (IR) issued by BHEL Inspector/agency. The payment of extra charges will be made only to the Extra RS Nos, UNIT, Qty mentioned in the IR duly concurred by BHEL Field Officers.

14.0 SAFE DELIVERY: The Contractor shall do at his cost the necessary packing for easy & safe handling and transportation as per BHEL drawing wherever specific packing arrangements are applicable and normal packing for the other items required for transit by rail/road transport wherever necessary.

15.0 TERMS OF DELIVERY: The price should be on "F.O.R- BHEL Stores/Shipping, Ranipet" basis only (Inclusive of packing, forwarding and freight charges).

The finished machining / fabrications on acceptance by BHEL, Ranipet inspector or by their authorized inspection agency shall be delivered to BHEL, Ranipet Stores / Shipping or to BHEL Sites / Customer as the case may be immediately.

16.0 TECHNICAL REQUIREMENTS :

- 16.1 The machining / fabrications shall strictly confirm to the dimensions and tolerances indicated in the drawings/QWI. Care must be taken to adhere strictly to the NOTES given in the drawings/Contract. It should be ensured that actual dimensions, and deviations if any, are recorded properly in the D.R. books and preserved at least for 5 years. The same shall be made available to BHEL Officials or their authorized agencies.
- 16.2 Any other work carried out outside the requirements of drawings/QWIs shall have the prior approval of the competent authority of Outsourcing / BHEL, Ranipet.
- 16.3 Adequate facilities like welding equipments, baking oven, handling facilities and measuring instruments as called for, must be available duly calibrated and kept with the Contractor for the manufacture of boiler components. All the above basic machining / fabrication facilities/equipments must be under working condition and the same be made available for verification by the BHEL officials or their authorized agencies whenever they are called for.

The instrument/gauges are to be calibrated periodically as follows:

Sl.No.	Type	Periodicity
01	Measuring instruments / gauges	One year
02	Limit Gauges (Eg. Plug/ring)	One year
03	Temperature , Pressure gauges	6 months
04	Measuring Steel tape	Once

Calibration status shall be displayed at the Contractors works in a conspicuous location. Calibration can be performed either at BHEL or at any Govt. approved labs traceable to National Standards.

- 16.4 For various Rate Schedules, the manufacturing, handling and testing facilities requirement as specified by BHEL from time to time shall be available with the Contractor.
- 16.5 Only the right kind of matching welding electrodes shall be used as called for in the drawings/QWIs after necessary baking and pre-heating mentioned in QWI. Welding electrodes shall be sourced only from approved vendors as per **Section-VIII**. The electrodes shall be suitably baked and preheated wherever applicable before use in addition to the general precautions that may be applicable for all electrodes in storing etc...
- 16.6 Welding to be carried out by Qualified Welders and as per BHEL Approved Welding Procedure Specification (WPS). Necessary raw material for conducting the pre-production test will be supplied by BHEL as supplementary materials. The welder qualification and welding procedure will be done by QC, BHEL or by their authorized agency.
- 16.7 All welds of Submerged Arc Welded components shall be carried out by certified welders and shall be dye-checked for root and by MPI for final welding.

17.0 INSPECTION:

- 17.1 Inspection of fabrications/Machinings (conversion work) shall be by BHEL Quality control department and/or by the customers and/or by an agency or persons authorized by BHEL, Ranipet at the Contractor's works including Self Inspection firms. Selected firms shall be approved by competent authority authorizing self inspection. The concerned

Engineer/supervisor/Authorized Official of the firm authorized by the firm to carry out all Inspection activities and their authority/activities shall be on par with any other Inspection agency approved by BHEL (like TUV/IRS/INTERTEK etc.,). All facilities and equipments, calibrated instruments like tapes, thread checking gauges upto M20, and bore dial gauges and bits up to 100 mm. and standard gauges required for inspection shall be provided by the Contractor free of cost.

- 17.2 BHEL representatives/authorized agencies will have free access to the Contractor's works at any time during the execution of job work orders as well as for verification of requisite documents/materials. (The requirement of Customer approved quality plan will be indicated in the PO/Addenda).
- 17.3 The semi-finished components are deemed to have been accepted as ready for delivery only after IR is released by the Inspecting Agency.
- 17.4 Statutory inspection requirements such as IBR/External Inspection agency requirements if any, are to be met by the Contractor.
- 17.5 The paint quality will be checked by BHEL Ranipet at regular intervals. Samples will be collected from vendor works and will be tested at BHEL to ensure quality as per relevant standards. In case of discrepancy in meeting our specification the job may be rejected/vendor may be put under suspension of business. The vendor shall ensure mentioning of the details of paint applied, no of coats, coating thickness on the respective IR of the job.

18.0 PAYMENTS :

- 18.1 Payment will be made for IP wise 100% for the supplies made against submission of Vendor invoices in duplicate to Finance section furnishing the job work order Sl. No., W.O., IR & DC No. along with IR, giving details of work carried out as per Extra Rate Schedule applicable, if any supported by
- (a) Stores Receipt Voucher in case of Stock Work Order items.
 - (b) Delivery challan acknowledged by BHEL Stores/Shipping.
 - (c) Inspection Report (IR)
 - (d) If the claim is made for more than one job work order Sl. No., only one invoice have to be submitted with annexure giving the above details.
 - (e) Contractor MAS with challans duly signed with seal in part II.
 - (f) finished goods are dispatched directly to site (DTS) from fabricators works as per BHEL instructions, necessary formalities to be followed as per BHEL conditions stipulated from time to time . Also in such DTS cases, the documents like copy of DC, Lorry Way Bill etc shall be submitted along with their invoices for payment purposes.
- 18.2 The amount due to BHEL, Ranipet, if any, will also be recovered from the Contractor's running bills. No request for the refund of penalty/recovery will be entertained after final material accounting is done. Payment will be made only through 'Electronic Fund transfer/RTGS Transfer'. Acceptance for the same may be submitted in the prescribed format if not done already.
- 18.3 Owing to the substitution, if the raw material weight changes over and above (+) or (-) 5%, the conversion cost for the difference in weight shall be paid/recovered prior to the issue of FMAS. Since payment is made for notional design weight, any correction issued for the design weight after processing the original invoice, Contractor is entitled to raise another invoice for the difference in weight without any other supporting document except the copy of the original invoice.

- 18.4 GST as applicable for Contractor's covered under **clause 27.0.** can be claimed along with documents / certificates mentioned therein. However, one more bill per month against any one of the pending Work Orders will also be permitted as a special case and this should have the prior approval by competent authority.
- 18.5 The Contractor shall ensure that ALL claims including extra charges, if any, as per **Cl. 4.0** are made against the particular work order before the issue of Final-MAS since BHEL will not be able to reopen the case after issue of Final-MAS.
- 18.6 The payment shall be subject to the deduction of any amount for which the fabricator is liable indirectly under this contract or any other contract of the fabricator or any other fabricator's contract where the proprietor / any of the partners / directors of the present fabricator is / are proprietor/director/s/partner/s, in respect of which BHEL / Ranipet is a contractee.
- 18.7 Request for delivery extension is to be made if there is a valid reason, in the format for that particular job work order Sl. No., failing which liquidated damages will automatically be levied as per **Cl. 23.0.** No request for extension/refund of penalty will be entertained there after.
- 18.8 Payment will be made in about 45 days after receipt of valid invoices raised in accordance with **Cl. 18.1** and supported by full set of necessary documents at Accounts Department. No interest shall be payable by BHEL on any money due to the Contractor by BHEL.
- 18.9 For the purpose of payment, only the unit rates are to be considered based on the RATE SCHEDULE NUMBERS. The description of the item is only indicative and it is not binding. Any description given in the item column is only for the purpose of clarity for manufacturing the item. (the description may change designer to designer and/or drawing to drawing).

19.0 PROGRESS REPORT:

The Contractor shall submit progress report from time to time and also discuss with our officials concerning the progress of the work and commitment as may be required by BHEL, Ranipet. The submission, receipt and acceptance of such reports shall not prejudice the rights of BHEL, Ranipet under the Contract nor shall operate as an estoppel against BHEL, Ranipet merely by reason of the fact that they have not taken notice of/or objected to any information contained in such reports. Action as deemed fit will be taken if the progress of the work is not satisfactory.

20.0 BANK GUARANTEE :

- 20.1 The Contractor in MAIN shall execute a Bank Guarantee to a specified value not less than **Rs.10.00 Lakhs** (inclusive of blasting up to Sa2.5 - process by the fabricating vendor) and the Contractor in TINY shall execute a Bank Guarantee to a specified value not less than **Rs.10.00 Lakh** from any one of the Scheduled or Nationalized banks on behalf of the Contractor for the safe custody of the materials supplied by the BHEL, Ranipet as free issue and for the satisfactory performance of the Contracts. The guarantee shall be executed on a non-judicial stamp paper on value Rs. 100/- as per our standard Bank Guarantee clauses and shall be kept valid for the full contract period & Claim period of additional THREE MONTHS /1 Year as the case may over the contract period and extensible till final settlement of supply and payment **and BG to be submitted directly by Bankers to BHEL in a Standard format as per Section XI. BG format shall not be modified.**

- 20.2 In place of Bank guarantee, Fixed Deposit Receipt (FDR) drawn in favour of BHEL, Ranipet can also be furnished. In any case BG/FDR shall be available at the time of signing the contract.
- 20.3 The Bank Guarantee should cover the recoveries to be made by BHEL towards Safe custody of Material Supplied, Scrap / Faulty workmanship, etc. also for which proper material accounting is not made within the stipulated time and shall cover all Contracts past, present and future placed / to be placed by the BHEL, Ranipet. If the recovery amount is more than the pending bills, the difference amount to be settled immediately submitting Demand Draft in favor of BHEL/ Ranipet.
- 20.4 Loading on the vendor shall be restricted in such a way that the value of the materials to be issued and the stock of BHEL materials already available with the vendor.

21.0 BANK GUARANTEE NORMS;

- 21.1 Necessary Bank Guarantee (BG) / Fixed Deposit Receipt(FDR) should be furnished. The Bank Guarantee value applicable for the Firm is indicated in **Section XI** enclosed. The BG shall be kept **valid throughout the contract period PLUS 3 Months/ 1 year as claim period** and must be renewed in-time. It is also to be noted that the BG for the value indicated shall be made available with BHEL at the time of entering into ARC, failing which Firm will not be considered for entering in to contract with BHEL.

The required Bank Guarantee shall be submitted within 15 Days of finalization of the contract, else the non submission of BG will be treated as " *not honoring his own offer or any of the condition*" stated/agreed in the tender and declared fit for taking penal action by BHEL as per "*Suspension of Business dealings vide Clause 5 of section IV*"

- 21.2 The release of Contract by BHEL, Ranipet shall be on the strength of Bank Guarantee for the safe custody of raw materials issued by BHEL, Ranipet as free issue in line with **CL. 20.1.**
- 21.3 Based on the capacity declared by the firm, the Sub-contractor may decide the maximum BG value over the base BG value, and the same shall be submitted to BHEL before ordering.
- 21.4 **BG shall be given by bidders for 50% of value of materials** to be issued to the vendor against Job Work Order. The value of materials shall be as per BHEL calculation, which is final.
- 21.5 JWO / Loading on the vendor shall be restricted in such a way that the value of the materials to be issued and the stock of BHEL materials already available with the vendor together do not exceed twice the value of BG at any point of time.
- 21.6 BHEL reserves the right to increase the value of BG/FDR depending on the material availability with the contractors from time to time. For placement of PO/addendum, if available BG is short of the required BG value, the same will be intimated to the vendor to submit additional BG. The vendor shall arrange for the required BG within 15 days from the date of receiving such intimation from BHEL. If the vendor does not submit the required BG within 15 days, then the loading quantity may be reduced / diverted to other firms. After completion of that particular order, the vendors can request for return of BG (other than base BG) and the same shall be considered by BHEL.
- 21.7 The base BG shall be returned by BHEL after 90 days from the date of final bill submission or ARC validity period whichever is later.

22.0 GUARANTEE OF FABRICATION / MACHINING:

The Contractor shall warrant that the conversion work comply fully with the drawings and other technical conditions. If the jobs are found defective owing to reasons attributable to the vendors like faulty workmanship / incomplete work within a period of eighteen months from the date of handing over to BHEL, the Contractor shall make good of it / replace the same

free of cost. Alternatively, the rework / replacement charges will be recovered from the Contractor.

23.0 LIQUIDATED DAMAGES and RISK PURCHASE:

- 23.1 The semi-finished jobs/fabrications on acceptance by BHEL, Ranipet inspector or by their authorized inspection agency, shall have to be delivered to BHEL, Ranipet Stores / Finishing Bay immediately on or before the delivery date stipulated in the addendum. Where the Contractor supplied the finished machining / fabrications beyond the delivery date stipulated in the addendum, liquidated damages at the rate of **1/2%** of the value (Conversion Cost) of the assemblies delayed for each week or part thereof will be levied subject to a maximum of **10%** value of the particular Work Order in the addendum to the Contract for the undelivered portion without prejudice to any other relief or compensation to the BHEL, Ranipet under any other conditions of the Contract.
- 23.2 Further, BHEL, Ranipet will get these items fabricated elsewhere, without notice to the Contractor on the account and at the cost and risk of the Contractor, the jobs not so delivered without canceling the Contract in respect of installments of machining / fabrications not yet due for delivery or cancel the Contract or a portion thereof and, if so desired, fabricate elsewhere at the cost and risk and account of the Contractor. Any additional expenditure incurred by BHEL on this account shall be recovered from the Contractor.
- 23.3 In general, delivery period for each JWO shall be within 90 days from JWO Date/Last material clearance date including further materials, whichever is later. However actual delivery shall be fixed by BHEL for each JWO on project requirement and product lead time.
- 23.4 Where delivery extension is sought with waiver of penalty, the same should be applied to OS with justification and approval to be obtained before delivery to BHEL Stores/Shipping and two copies of such letters (One for Accounts & One for OS Department) are to be enclosed along with all the bills. Failure to comply with this requirement will result in recovery of penalty while processing the bills for payment as stated in **Cl. 23.1** from the same bill and no claims for refund of liquidated damages will be entertained there after.
- 23.5 Reasons like power cut, Labour Issue, Machine Break-down etc., which are controllable by the vendors shall not be accepted as reasons for delay for delivery extension purposes. No compensation shall be given to the Contractors, in case of cancellation/diversion of PO'S beyond the delivery Due Date, even if the Jobs have been processed partly.

24.0 ACTION AND COMPENSATION IN CASE OF BAD WORKMANSHIP:

If any work has been executed with unsound, imperfect or bad workmanship or with materials of inferior quality, the Contractor shall on demand in writing from BHEL specifying the work, material/articles complained of, notwithstanding that the same may have been passed, certified and paid for, forthwith, rectify the work so specified in whole or in part as the case may require, at their own cost and in the event of his failure to do so within reasonable period. BHEL will rectify or remove and re-execute the work at the risk and expense of the Contractor.

25.0 COMPENSATION AGAINST DAMAGE OF MACHINERY/TOOLS AND GAUGES SUPPLIED:

- 25.1 BHEL reserves the right to claim adequate compensation from the Contractor on account of any damage caused to the machinery / equipment / tools and gauges supplied to them for execution of work, due to careless or faulty handling or negligence on the part of the Contractor. The total cost of recovery will be decided by BHEL.
- 25.2 BHEL shall have general supervision and direction over the work, BHEL has the authority to stop the work, whenever such stoppage may be necessary to ensure the proper execution of

the Contract. BHEL shall also have the authority to reject all the works which do not conform to the specification, to direct the application of forces to any portion of the work as, in their judgment is required, and order the force increase or decrease and to decide on the issues which arise in the execution of the work.

- 25.3 BHEL reserves the right to suspend the work or part thereof put a hold on further loading to the Contractor at any time for any reason at its discretion and no claim whatsoever on this account will be entertained.

26.0 SUBLETTING :

- 26.1 The Contractor shall not sublet or assign this Contract or any part thereof without the written permission of BHEL, RANIPET. Subletting or assigning this Contract or any part thereof without such permission BHEL, Ranipet shall be entitled to cancel the Contract and to execute the conversion work elsewhere at the risk and cost of the Contractor and the Contractor shall be liable for any loss or damage which BHEL, Ranipet may sustain in consequence of or arising out of such machining / fabrication elsewhere and also cancellation of registration/temporary suspension of further loading.
- 26.2 However, if the PO/PGMA loading demands part processing / Special Process (like Blast cleaning, Heat Treatment, Machining, Bending, Shearing, Threading, etc..) of certain items at other BHEL OS-approved Contractor's works, the same may be allowed with the prior permission of BHEL in writing, indicating the period of returning.
- 26.3 "Movement of BHEL materials from our Contractor's premises to any other Firm(s), if necessary, for the purpose of production related work shall be documented properly, signed by the sender & receiver and the same to be authenticated by the concerned OS official, otherwise such materials will be treated as shortage by Accounts".
- 26.4 The vendors will be allowed to indicate alternate sources for carrying out these intermediate operation, wherein the said other sources shall seek approval from BHEL for carrying out these operations.
- 26.5 These intermediate operations are to be carried out only at the approved sources and addition/deletion to this list will be indicated to the vendors then and there.

27.0 TAXES & DUTIES-GST:

- 27.1.1 Taxes and duties as applicable from time to time, shall be paid extra over the quoted rates. (as per latest GST guidelines)
- 27.1.2 Vendors should provide a valid GST registration number and the same should be clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. Vendor should get themselves registered and obtain a valid GST registration number as per the GST guidelines
- 27.1.3 In case any changes in GST guidelines as per Gov. Notification , the same shall be applicable from time to time.
- 27.2 Taxes applicable if any will be reimbursed at actual on submission of necessary tax invoice mentioning the GSTN registration number and proof of payment to the statutory authorities.
- 27.3 BHEL will recover applicable GST along with cost of prime material, off cut, scrap including Turning & Boring (T and B) **as per clause 5.1** at the time of finalizing MAS wherever the property in the goods passed on to the Contractor. An Invoice will be issued under relevant rules of GST.

- 27.3.1 Wherever GST is claimed by Contractor as above BHEL shall reimburse the applicable GST presently @ 12% against submission of the following documents:-
- i. GST Registration Certificate
 - ii. Original Tax Invoice (as per GST Rules)
 - iii. Certificate for payment of GST
 - iv. Abstract of GSTR-I & GSTR-3B or any other returns as prescribed from time to time
- 27.3.2 In case BHEL is not able to get input Tax credit (ITC) for the payment made by vendor for any of the reason attributable to vendor , the same shall not be reimbursed/recovered from the bills/claims of the vendor (if reimbursed)
- 27.4 GST TDS deduction at such percentage as prescribed under GST Law from time to time will be made on the value of invoices
- 27.5 Income Tax deduction and surcharge on IT at source at such percentage as prescribed in the Income Tax Act from time to time will be made on the value of the invoices in the absence of Income Tax Exemption Certificate from the concerned Income Tax Officer received and submitted by the Contractor. Contractor has to submit photocopy of PAN Card along with original for verification.
- 27.6 All statutory documents required for execution of contract to be finalized against this enquiry and required from time to time by State/central Govt. Authorities shall be submitted to BHEL, failing which appropriate recovery/actions as deemed fit will be levied from the running bills of the contractor.
- 27.7 Contractors are exempted from payment of GST as they are job workers as prescribed under Section 143(1) of GST Law as amended from time to time for the purpose of free issue of raw materials/semi finished goods to them for carrying out necessary operation and return the finished components without payment of duty to the BHEL RANIPET's factory for further processing. This is subject to subsequent statutory modifications and amendments in force from time to time. Contractors shall comply with the requirements of the said Section and also rules made under GST LAW . This is subject to subsequent statutory modifications and amendments in force from time to time. Besides, Taxes, duties, levies and any other govt. special levies as applicable from time to time, through notifications/amendments to original notification/orders, during the tenure of the rate contract, shall be extra as applicable against valid documentary evidence. Any increase or decrease in this regard will be effected accordingly against valid documentary evidence.
- 27.8 The required raw materials will be issued under the cover of Delivery challan as prescribed under GST Law. The Contractor receiving the materials under above said challan (2 Copies) have to complete the work order and return the finished components and scrap under the cover delivery challan issued by BHEL within 3 months from the date of first issue of materials unless otherwise extended by BHEL and all materials shall be fully accounted for in FMAS. For this purpose Duplicate (ONE) copy of all the Challan shall be returned back to BHEL after duly signing in with seal with FMAS and DC copy. If the materials are not returned/ fully accounted for within three months or such extended period as may be allowed by BHEL, any financial implication on BHEL will be recovered from the Contractor's bills.
- (i) In case of failure of non submission of challan due to reasons not attributable to Contractor, (like non matching of materials, hold informed by BHEL, delay due to cycle time etc.,) is to be intimated to BHEL every month by the Contractor.

- (ii) In case of direct dispatch to customer site (or) returning of material back to BHEL store, necessary GST formalities have to be complied with by Contractor and also necessary records as per GST Law have to be maintained by the Contractor.
- (iii) FMAS is to be prepared immediately on dispatch in all cases based on which applicable GST on scrap/Off cut will be recovered from Contractor and paid to GST Dept.
- (iv) BHEL, RANIPET will not be responsible for payment of any taxes and duties wrongly paid on account of ignorance of law or otherwise and also duty paid at a later date based on litigation.

28 GENERAL :

- (a) BHEL reserves the right to recover the dues if any, from the contractor from any one of the running bills of this contract or any other contract with the contractor or from any other division of BHEL. Vendors disqualify themselves to be an approved vendor of BHEL, in the event , it is found that they carryout activities / business which are in direct competition to BHEL business and accordingly they will be delisted. Vendors / Firms indulging in business practices detrimental to BHEL, will be severely dealt with by the due process of law. In addition to the above conditions the following specific conditions also bound under this contract.
- (b) It is preferred that the Proprietor/Managing Partner/Director as applicable to the company should be easily accessible to BHEL official for day to day interaction and to have the residence within 30 KM from BHEL/BAP for the firms located in and around Ranipet. Any change in the constitution of the Contractor's unit or in shifting of works to a new location, the same shall be made only after getting specific approval from Outsourcing BHEL RANIPET. Any deviation found later will be dealt with as deemed fit including cancellation of registration. Also change of Banker requires the prior approval of BHEL, Ranipet.
- (c) Partnership firms should have the latest Form A (Rule 5) Declaration filed with the Registrar of Firms and private Limited firms should have the current MOA and the copy of the same should be produced at the time of signing the Contract.
- (d) The Contractor is liable for all statutory obligations, including but not limited to taxes and duties, ESI, PF, GST, Labour Acts, Factories Acts, Workmen Compensation Act, etc., for their workers. BHEL, RANIPET will have no liability in respect thereof. Notwithstanding the above, if any demand notice is served by the concerned Statutory authorities for recovery of any of their dues on BHEL, BHEL shall have the right to pay the same without notice to the Contractor and recover the same plus administrative charges of 15% of such amount from the Contractor either from the pending/future bills of the Contractor or otherwise. Such act of repeated default is liable for suspension/stoppage of further business till such time the default/violations get vacated. Notwithstanding anything to the contrary, BHEL shall not be liable for any penalty or interest imposed by any statutory authority due to the action of the Contractor or his employees, workers, agents, etc. .
- (e) The Contractor has to devise suitable scheme whereby the employment of child labour should be regulated in line with the child Labour Act (prohibition and Employment Act 1986).
- (f) All the safety precautions and use of safety equipments are to be followed while carrying out the fabrication and despatch of the same. The Contractor must have proper tools and handling equipments. There should always be a responsible person available at the Contractor's works to oversee the operation and compliance of safety regulations. If any non-compliance with respect to proper safety conditions/requirements, BHEL may withhold visit/inspection, instruct stoppage of work till such time the desired safety requirements/conditions are met with.
- (g) All the documents (Inclusive of Drawings, GMS and Standards) of BHEL made available to the Contractor should be kept in a strict confidence and under no circumstance be made available to others or allow others to make use of them for any other commercial purpose whatsoever. This secrecy clause is binding on the employees of the Contractors also. Any contravention

will be subjected to legal action besides suspending business with BHEL. Such documents should be returned to the BHEL, RANIPET destroyed with the prior approval of Outsourcing, BHEL, RANIPET.

- (h) Unauthorized act of engagement of any individual who is a full time employee of BHEL for part time/full time work by the Contractor will be viewed very seriously and such act is liable for suspension/total stoppage of further business dealings with the Contractor by BHEL, RANIPET.
- (i) Should a Contractor has a relation or relations in the case of a firm or a company of the Contractor, one or more of its shareholders or relation or relations of the shareholders employed in BHEL or any ex employee who has retired/resigned within a period of two years as on date of the Contract or at any subsequent date after award of this contract, BHEL shall be informed of the fact at the time of signing the contract and thereafter as applicable and obtain the permission of BHEL for such engagement, failing which BHEL may in its own discretion rescind the contract.
- (j) The Contractor shall not attempt any unethical acts and if they are found indulging in such acts, they are liable to be blacklisted apart from other actions. Contractors indulging in any business practices detrimental to BHEL either directly or Indirectly, will be dealt with severely by the due process of law.
- (k) In case of any internal dispute of the Contractor, such as but not limited to disputes between partners of the Contractor, dispute between Contractor and its employees, the same shall be intimated to BHEL within One Month from the date of dispute. Notwithstanding anything to the contrary, BHEL shall not be made a party any suit or legal proceeding in respect of such internal dispute. In case BHEL is made a party to the same, the Contractor and other party(ies) to the dispute, if signatories to this Agreement, shall indemnify BHEL for (a) all direct and indirect costs expended towards such legal proceedings immediately on the issue of a claim notice to that effect from BHEL and (b) any liability that may be imposed in such legal proceedings against BHEL.
- (l) Payment for all the invoices shall be effected by a crossed A/C payee cheque /EFT/RTGS in favor of the Banker which should be indicated in all invoices of the Contractor.
- (m) In order to ensure safe custody of our materials, leasee of those firms under lease shall ensure that their lease period is valid for minimum of 3 years (from date of signing the contract).
- (n) In addition to the above, our standard General Conditions enclosed shall also apply.
- (o) The entire terms and Conditions contained in this tender shall be deemed to form an integral part of the Contract to be entered.

29.0 BHEL reserves the right to :

- (a) Negotiate with the Contractor who has submitted the Lowest offer for "Payment Rate Schedules" and Highest offer for "Recovery Rate Schedules"
- (b) Distribute the requirements on more than one contractor at the Lowest (for Payment RS) / Highest (for Recovery RS) acceptable rate.
- (c) The rates and other terms and conditions in this contract are applicable for the job work orders likely to be placed by other Departments/Units of BHEL also, for similar items.

30.0 Primary e-Mail-ID: Contractors are requested to indicate their own email-Id as "Primary e-Mail-ID", which will only be used for all correspondences (like for MAS and Payment etc..)

31.0 Integrity Pact: Integrity Pact forms part and parcel of the contract and firms have to fill in all necessary details in the format **Annexure-H** and submit duly signed along with the offer in separate cover for our verification and records.

Non submission of Integrity pact along with the tender will disqualify the Contractor taking part in the Rate Contract tender.

32.0 Arbitration and Jurisdiction:

- (a) Any dispute between BHEL and the Contractor arising out of or in connection with this Contract, other than those for which BHEL decision is final, shall be referred to arbitration by a sole arbitrator.
- (b) The parties hereto agree that the Sole Arbitrator shall be the Unit Head of BHEL, BAP, Ranipet or his nominee. The venue of Arbitration shall be Ranipet, Tamil Nadu. The arbitrator may hold meetings for convenience at such places as per his discretion.
- (c) The award of the Arbitrator shall be final, conclusive and binding on both parties to the Contract.
- (d) Subject to the above, the courts at Ranipet alone have the jurisdiction to decide any dispute arising out of or in respect of the Contract.

Vendors are requested to quote only for the Rate Schedules/Group of Rate Schedules applicable to their firm as per the Technical Bid **(Annexure-C)** and Price Bid format **(ANNEXURE D-BOQ)** enclosed.

The offers should be submitted as detailed in **Section I to Section XII and Annexures A to K**

BHEL, Ranipet is not responsible for any type of delay in receipt of tender.


BHEL, Ranipet reserves the right to reject any or all the tenders either in full or part thereof at their discretion without assigning any reason thereof.

Thanking you,

Yours truly,

For and on behalf of
BHARAT HEAVY ELECTRICALS LIMITED,

MANAGER (CONTRACTS) / OS

	Bharat Heavy Electricals Limited (A Government of India Undertaking) Boiler Auxiliaries Plant, Ranipet – 632 406		☎: 04172-284030, 284158, 241170
	OUTSOURCING DEPARTMENT		E-Mail : bsmanian@bhel.in
AN ISO 9000 COMPANY			
Enquiry No	652001E	Due Date & Time for submission of offers	By 10.00 Hrs On 20.09.2022
Enq-Dated	09-09-2022	Date & Time of Tender opening	By 14-00 Hrs On 20.09.2022
SECTION III Technical Description and Rate Schedules Classification OS-MAIN Annual Rate Contract 2022-23			

Scope of the enquiry is to finalise the Rates for entering into Annual Rate Contract for the year 2022-23 for Complete Manufacture of APH (Air-Pre Heater), ESP (Electrostatic Precipitators), FANs (Industrial Fans), G&D (Gates and Dampers), FGD (Flue Gas Desulpharization) & other BAP products components as per respective BHEL drawings from the raw- materials issued by BHEL. Finished items are to be handed over to BHEL/Stores/Shipping.

1.0 The Total Tonnage tentatively for this Rate Contract is 57,724 MT

The requirements are given in the form of Rate Schedules (RS). Each Rate Schedule contains Rate Schedule Number, Description of the scope of operation to be carried out Unit and Quantity Anticipated in 2022-23 for ordering.

2.0 Rate Schedules: Total Rate schedules given in the tender are **255**. For Main there are **180** Rate Schedules (Fabrication/ Machining/ Special operations) available – Ref. **Section IIIA**. For extra Rate Schedules there are **75** Rate Schedules available – Ref. **Section IIIE**.

Note: New Rate Schedules **51K,51L,51M,51P,51Q,51R,53J,57J,59K&59L** under Group GEN(General Fabrication), Rate Schedules **139A,139B,139C,139D,139E,139F,140A,140B,140C** under Group AUTO (Auto (SAW) Welding Process), Rate Schedule **53K** under Group TINY (Light fabrication) , Rate schedule **E104,E105,E106,E107&E108** under Group EXTRA (Extra rate schedules) are added in this tender.

3.0 Grouping of Rate Schedules: Total **180** Main Rate Schedules are grouped under **19** Categories. Groups are made based on the similar nature of work content and common manufacturing facilities required to carryout the operations.

4.0 Extra Rate Schedules: Extra works if any carried out as per drawing / QWI / JWO requirement shall qualify for extra payment, as per extra rate schedules listed in **Section IIID**. The **75** Rate Schedules appearing in Extra Category Grouped under **EXTRA**. Vendors who are eligible to quote for extra Rate Schedules are given in the **Section IIIE** according to the Group of Rate Schedules selected for quoting.

For quoting Extra rate Schedules, Technical Bid format given as **Annexure-CE** (to be put in cover-II) and Price Bid format given as **Annexure-D** (BOQ in Excel format).

5.0 Recovery Rate Schedules: The Rate Schedules E41, E42, E43 and E73 are the recovery Rate Schedules given under EXTRA RS Group in Section IIID. Among the Vendors who have quoted Higher Rate (H1) for these Rate Schedules will be considered for Ranking. If BHEL feels that the H1 rate is not acceptable to them, then negotiation will be conducted with H1 Vendor to arrive reasonable rate for recovery.

6.0 The Group of the Rate Schedules are as follows.

SI	RS group	RS Group Description	No of RS	RS Nos	Distance Criteria in KM
1	APHP	Air Pre heater panels and pedestals	3	56H, 56J,135D	350
2	AUTO	Auto (SAW) welding process	23	137A,137C,137D,137E,139A,139B,139C,139D,139E,139F,139R,139S,139T,139U,139V,140A,140B,140C,140R,140S,140T,140U, 140V.	350
3	CHIMA	Chimney base and shells	4	175B,175C,175D, 176C	350
4	CHIMB	Chimney base and shells	1	176D	350
5	CHIMC	Chimney base and shells	1	176E	350
6	DAMP	Dampers (Louver and Biplane)	20	76A,76B,76C,76E,76F,76G,77H,77I,77J,77K,77L,77M,77N,77O, 77P, 77Q, 77R, 77S, 110A,110B.	350
7	EXP	Expansion Joints (Saw-tooth/Bellow type)	2	65A,65B	350
8	FSP	Spiral Casings	4	67A,68B,68C,130A	350
9	GATE A	GULLIOTINE Gates	4	117K, 118D,118K, 118L.	350
10	GATE B	GULLIOTINE Gates	3	117L,117M,119K	350

SI	RS group	RS Group Description	No of RS	RS Nos	Distance Criteria in KM
11	GEN	General Fabrication	43	51A,51B,51C,51D,51E,51F,51G, 51H,51J,51K,51L,51M,51P,51Q,51R, 52A, 53A, 53B, 53C,53H,53J, 54B, 54E, 54F, 54G, 54H, 56A, 57A, 57C, 57D, 57H, 57J, 59A, 59B,59D, 59E, 59F, 59G,59H, 59J,59K,59L, 63A	350
12	IMP	Fan Impellers	26	106C,106D,106E, 106F,106G,106H,106J,111A, 112A,112B,112C,113A,114A,114B,114C,131A,131B,131C,132A,132B,132C,143A,143B,166A,167A,168A,	450
13	PUN	Punching Process	12	54D,59C,71A,72A,73A,74A, 107A,107B,108A,109A,109B,160A	350
14	SEAL	Haste Alloy Seals	5	161A,163A,164A,164B,165A	350
15	SSCT	Stainless Steel Corner Tube Segment	1	52S	350
16	TAPH	Tubular Air Heater	1	75A	350
17	TINY	Light fabrication	22	52B,52C,52D, 52E 53D, 53F, 53G,53K,53M,54C,56C,56D,56E, 56F,56G,64A,65C,102B, 102C, 102D,102F,103A	40
18	TUB	Tube Bending	4	181A,181B,181C,181D	350
19	WWS	Water Washing System	1	62A	350
20	EXTRA	EXTRA rate schedules	75	Refer Section III E	450

7.0 Scope of the Operation : Complete Manufacture as per Drawing. The Rate Schedule contains descriptive details of items only. However, during actual release of orders, specific Drawing will be given for manufacturing.

8.0 Mandatory and General Facilities Required : To carry out the operations required on the job for the concerned Group of Rate Schedules, the manufacturing Facilities required like Welding Machines, Presses, Shearing Machines, Measuring Instruments etc. are mentioned against each Group of Rate Schedules in **Annexure-FM/FS/FT**.

9.0 Eligibility of Vendors : The vendors who are all having the Facilities required, mentioned against each Group of Rate Schedules in **Annexure – FM/FS/FT** and sufficient experience in the manufacturing field can quote for the Group of Rate Schedules.

- 9.1 Since the fabrication process involves no complex manufacturing process, prior experience may not be insisted. However, vendor should meet the all mandatory requirements to be required for a registered industry.
- 9.2 The date of commencement of activity appeared in the Firm Registration (MSME/SSI) certificate will be reckoned for calculating the age of the firm.
- 9.3 Vendor has to submit JWO/PO copies along with drawings/DC/IR and Bank transaction statement for the submitted Job Work Orders. All credentials will be verified by BHEL.

All the vendors quoting for the respective Rate Schedules Groups are eligible to quote for respective Rate Schedules listed under EXTRA - category Rate Schedules given in Section III E (**Annexure-CE and Annexure-DE**).

10.0 Distance Eligibility Criteria- Vendors Location.

a) Vendors located within the radius of 40 KM from BHEL, Ranipet are only eligible for the "TINY" Group of RS as indicate below.

Total Rate Schedules covered are **22**.

b) Vendors located within the radius of 350 KM from BHEL, Ranipet are only eligible for the following **17 Rate Schedule Group**.

APHP, AUTO, CHIMA, CHIMB, CHIMC, DAMP, EXP, FSP, GEN, GATE A, GATE B, PUN, SEAL, SSCT, TAPH, TUB, WWS

Total Rate Schedules covered are **132**.

c) Vendors located within the radius of 450 KM from BHEL, Ranipet are only eligible for the following **1 Rate Schedule Group**.

IMP

Total Rate Schedules covered are **26**.

11.0 Quantity : Tentative annual requirement is mentioned against each Rate Schedules in the Tender- Technical Bid **Annexure – C**. This quantity may vary during the currency of the contract according to the receipt of orders by BHEL.

12.0 Technical Bid : Technical specification Document for each Group of Rate Schedules are available in the Technical Bid as **Annexure – C**, for Extra Rate Schedules as **Annexure-CE**. Vendors can download the concerned Group of Rate Schedules Format which is matching with the Facilities available with them and fill the details as requested.

Vendor has to quote for all the Rate Schedules available in the Group selected, else their offer will not be considered for the respective Group of Rate Schedules (In case Vendor is not quoting for one or two rate schedules within the Group of Rate Schedules, their quotation for the particular Group will be rejected.)

Existing Vendors who are all executing jobs in the running MAIN-ARC has to mention completed PO/IP number released in **MAIN ARC 2022-23** against Rate Schedules choose for quoting.

13.0 Cluster for Groups of RS:

Cluster A: Chimney- CHIMA, CHIMB, CHIMC.

Vendors who have selected to quote for the Group CHIMC, they have to quote for Group CHIMA and CHIMB also.

Vendors who have selected to quote for the Group CHIMB, they have to quote for Group CHIMA also.

Vendors who have selected to quote for the Group CHIMA alone, they need not quote for CHIMB and CHIMC.

Cluster B: Gate - GATEA and GATEB.

Vendors who have selected to quote for the Group GATEB, they have to quote for Group GATEA also.

Vendors who have selected to quote for the Group GATEA alone, they need not quote for GATEB.

Note: Any vendor willing to quote for a rate Schedule identified under a specific group", are required to quote for **ALL** the rate Schedules identified under the said group". Their offer for any rate schedule 'group' is liable for rejection if they have not quoted for the entire rate schedule listed under the said Group". However, in the event of vendor become Highest 20% (Falls under elimination), the particular RS only will be eliminated. Also, considering the maximum number of vendors required for every rate schedule, the counter offer accepted by the vendors for the full / partial **rate schedules of the group shall be considered.**

14.0 Price Bid : Price Bid Documents for each Group of Rate Schedules including extra RS are available in excel format as **Annexure – D (BOQ)**. Simultaneously Vendor has to download the Price Bid Format along with Technical Bid Document for the concerned Group of Rate Schedules willing to quote and fill the same. Kindly note that no **need to submit CD**.

Note: Unit rate only to be mentioned in the price bid. Any Rates indicated other than in Price Bid Cover III shall not be considered.

15.0 Drawings : Each Rate Schedule relates to a group of drawings / PGMA's consisting of similar nature and content of work. List of Drawings RS wise is given in **Section V** for reference purpose.

Due to large number, volume, the drawings are not hosted in the Web-Site. Similar Sketches hosted in the web site are detailing the work content of these drawings. To view the Drawings

specified in the **Section V**, Click “**Drawings**” button available in the Main Page. Vendors can view the original Drawings at OS department.

The drawings will be displayed at BHEL for the Vendors who are willing to quote for the Rate Schedules. Drawings available for study purpose to the Vendors at BHEL Outsourcing Department, conference hall from 09.00 Hrs to 16.00 Hrs on all working days from Monday to Saturday till 5 days before the tender opening due date.

Hence it is suggested that, the Vendors has to visit BHEL to study the drawings along with their Technically competent officials to study the operations involved, facilities required and to estimate the cost of operations for quoting.

The fabrication rates are to be quoted based on sketches/drawings indicated against each RS

16.0 Quality Documents: Relevant Quality Work Instructions (QWI), Procedure of Quality Assurance (PR:QA), Welding Procedure Specification (WPS) specified in the Rate Schedules / Drawings are given in **Section X**.

Note : For search and study purpose to the vendors, the following details are provided in the tender document.

- a) Total **180** Rate Schedules list (**Rate Schedule wise**) with Group indication and Quantum for this tender is provided under **Section IIIA**.
- b) Total **19** Group of Rate Schedules list (**Group wise**) is provided under **Section IIIB**.
- c) Eligibility criteria for each Group of Rate Schedule is provided under **Section IIIC**
- d) List of Extra Rate Schedules RS wise is provided under **Section IIID**
- e) Extra Rate Schedules **75** Grouped under **EXTRA** along with Groups eligible to quote is provided under **Section IIIE**
- f) Quality document can be viewed in the **Section X**

Care: Offers received other than the format hosted in the web site will be summarily rejected.

Vendor has to study carefully all the technical requirements before quoting for the selected Group of Rate Schedules.

SECTION -IIIA					
RATE SCHEDULE MASTER for ARC(MAIN) 2022-23					
Enq .No:- 652001E			Dt 09.09.2022		
SI No	RS Group	RS No	RS Description	Unit	QTY
1	GEN	51A	CUT TO SIZE / SUIT DUS PER PIECE WEIGHT > 100 KGS, STRUCTURALS CUTTING FROM BEAMS, CHANNELS. STRUCTURALS / HAND RAIL TUBES TO BE CUT TO SIZE FOR GALVANIZING AND REQD. IN RM.(BLASTING and GALVANIZING CHARGES ARE PAYABLE EXTRA TO THE RESPECTIVE VENDOR).	MT	1215
2	GEN	51B	CUT TO SIZE DUs PER PIECE WEIGHING ABOVE 10 KGS AND UPTO 25KGS	MT	112
3	GEN	51C	CUT TO SIZE DUs PER PIECE WEIGHING MORE THAN 25KGS AND UPTO 50KGS	MT	86
4	GEN	51D	CUT TO SIZE DUs PER PIECE WEIGHING MORE THAN 50KGS TO 100KGS	MT	53
5	GEN	51E	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 10 KGS AND UPTO 25KGS	MT	17
6	GEN	51F	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 25 KGS TO 50 KGS	MT	160
7	GEN	51G	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 50 KGS TO 100 KGS	MT	16
8	GEN	51H	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 2 KGS AND UPTO 10 KGS	MT	65
9	GEN	51J	CUT TO SUIT OF DUS PER PIECE (UNIT) WEIGHT ABOVE 2 KGS AND UPTO 10 KGS	MT	57
10	GEN	51K	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT UPTO 0.2 KG	NO	100000
11	GEN	51L	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.2 KG TO 0.5 KG	NO	100000
12	GEN	51M	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.5 KG TO 2 KG	NO	200000
13	GEN	51P	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT UPTO 0.2 KG	NO	150000
14	GEN	51Q	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.2 KG TO 0.5 KG	NO	120000
15	GEN	51R	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.5 KG TO 2 KG	NO	32000
16	GEN	52A	MONORAIL BEAM (STRAIGHT), LONGITUDINAL, TRANSVERSE/BEAM [ROLLED SECTION] HAVING FULL / PARTIAL BOLTED CONNECTION, CARBON STEEL EXTRA WIDTH PLATE, PACKING CRATES	MT	1092
17	TINY	52B	WELDED TYPE SMALL GALLERIES, BEAMS (ROLLED SECTION), HOLLOW BRACINGS, RECTIFIER HANDLING SYSTEM, PENT HOUSE PURLIN CHANNEL TYPE, HOPPER APPROACH PLATFORM FRAMES WITH PLATES, LADDER, STAIR BEAM, CONTROL ROOM INSERTS, BRACINGS NON BOX TYPE, SUPPORTING BEAMS MADE OUT OF CHANNEL/BEAM, SIDE BEAM, MIDDLE BEAM, WALK WAY (ROLLED STRUCTURE), SUPPORT, SUPPORTING CHANNELS, BRACKETS, HOPPER CORNER TUBES (FROM IS2062 TUBES OR PLATES) REQUIRED FOR ESP / APH / FANS / GATES AND DAMPERS AND FGD PRODUCTS.	MT	1365
18	TINY	52C	VERTICAL STAY (INCLUDING PACKING).	MT	130
19	TINY	52D	HORIZONTAL SPLITTERS,GUSSET PLATES.	MT	52
20	TINY	52E	HOPPER RIDGES WITHOUT COVER PLATE IN X43	MT	47
21	SSCT	52S	COMPLETE MANUFACTURE OF STAINLESS STEEL CORNER TUBE SEGMENT INCLUDING PACKING AS PER THE DRAWING FOR WHICH STAINLESS STEEL PLATE 5 / 6 MM RAW MATERIAL WILL BE ISSUED FROM BHEL. SAMPLE DRAWING 3-79-744-03243. UNIT WEIGHT 30.764 KG. RATE INCLUSIVE OF ONE JOINT PER PIECE	MT	8
22	GEN	53A	ROOF TRUSSES (IN X55), CORTEN EXTRA WIDTH PLATES, SUPPORT BEAM WITH COVER PLATE WELDING, BOX TYPE BRACING FULLY WELDED TYPE, CHANNEL/BEAM BRACINGS WITH FULL COVER PLATES/INTERMITANT COVER PLATES, SILENCER BASE/SUPPORTS, MONORAIL BEAM (STRAIGHT) INVOLVING ADDITIONAL CHANNEL ON TOP FLANGE (ROLLED SECTION)	MT	2000
23	GEN	53B	WELDED DESIGN ESP / BUNKER / FGD / CHP / AHP / BOP COLUMNS H,][, BOX TYPE TO BE MANUFACTURED OUT OF ROLLED SECTION CHANNEL & BEAM ABOVE 203 MM & UPTO 305MM [NDT CHANGES [OTHER THAN LPI] ARE PAYABLE ETC.	MT	494

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RATE SCHEDULE MASTER for ARC(MAIN) 2022-23					
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SI No	RS Group	RS No	RS Description	Unit	QTY
24	GEN	53C	WELDED DESIGN ESP / BUNKER / FGD / CHP / AHP / BOP COLUMNS H,][, BOX TYPE TO BE MANUFACTURED OUT OF ROLLED SECTION CHANNEL & BEAM ABOVE 305MM [NDT CHANGES [OTHER THAN LPI] ARE PAYABLE ETC.	MT	425
25	TINY	53D	SHOCK BAR (ANGLE TYPE)	MT	1
26	TINY	53F	RAILINGS, CONTROL FRAMES, DUCT SUPPORTS, BAP TRUSSES (OTHER THAN ROOF TRUSSES IN X55) TRUSS BEAMS, STAIRS (WELDED TYPE), STRINGERS, PURLINS ROD TYPE, STAR ANGLE, B/B ANGLE, APPROACH PLATFORM FRAMES WITH OUT PLATES, SUPPORTING BEAM WITH TRUSS ASSEMBLY	MT	1358
27	TINY	53G	STOOL ASSEMBLY.	MT	20
28	GEN	53H	HOPPER RIDGES WITH COVER PLATE AND STIFFENER IN X43	MT	228
29	GEN	53J	WELDED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS UP TO 203 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	400
30	TINY	53K	LADDERS (LADDER WITH CAGE), SHIPPING LADDER (STAIRS MADE OF PLATES)	MT	100
31	TINY	53M	SHOCK BAR (ANGLE TYPE) INCLUDING MANUFACTURE OF SHOCK BAR PLATE FROM RAW MATERIAL ISSUED BY BHEL.	MT	2
32	GEN	54B	ROOF PANELS ASSY WITH COLLAR [BOTH SQUARE AND ROUND TYPE]	MT	463
33	TINY	54C	SHOCK BEAM, ANGLE BAR, SUPPORT IN X42,SUPPORT ANGLE, CASING INSERTS, WALKWAY WITH COVER PLATE, VERTICAL BEAM.	MT	388
34	PUN	54D	SCREEN SHEETS WITHOUT PUNCHING(INCLUDING PACKING),VERTICAL SPLITTER,HOPPER DEFELECTION PLATE,ATTACHMENT IRON,RIDGE CAPSHEETS IN X43,SHIELD,ANGLE BAR ,MOTOR SHIELD,SIDE EAVES,END EAVES.	MT	162
35	GEN	54E	MANUFACTURE OF A) FGD TANKS SHELLS (LS SLURRY TANK, PROCESS WATER TANK, DM WATER TANK ETC - BOTTOM TO TOP TIERS MADE FROM PLATES 16 MM TO 6 MM THICK) INCLUSIVE OF TANK COVERS AND TANK BASE (CONICAL). REF DRG: 0FW74200683 B) CYCLONE SEPARATOR INVOLVING SHELL ROLLING / CONE ROLLING OF UP TO 16 MM THICK. C) SHOCK BAR(FLAT TYPE) EXCLUDING HEAT TREATMENT.	MT	161
36	GEN	54F	Manufacture and trial assembly of Conical Hoppers of ESP - Having multiple tiers including SS lining - Ref Drg: 0-79-845-01619,20	MT	1290
37	GEN	54G	Manufacture of silo tank shells both straight and conical with Stainless steel liner sheets & also having drill holes (for plug welding)	MT	111
38	GEN	54H	Complete manufacture of ring girders used for mounting silos / Tanks made of plates. Ref Drg: 06610000012 or Equivalent	MT	100
39	GEN	56A	FRAME PART MIDDLE [INCLUDING PACKING] & PIPE SUPPORT SADDLE FOR VARIOUS SIZES	MT	746
40	TINY	56C	INSULATOR HOUSING ASSYEMBLY X06 SINGLE WITH OR WITHOUT HT CONNECTION	MT	102
41	TINY	56D	INSULATOR HOUSING ASSYEMBLY[7XX06] DOUBLE WITH OR WITHOUT HT CONNECTION, INSULATOR HOUSING ASSY [X17] TAPER,SUPPORT DOUBLE.	MT	12
42	TINY	56E	GAS DISTRIBUTOR ASSEMBLY, EMITTING SYSTEM SUSPENSION, INSPECTION DOOR AND INTERLOCKS, SCREW (LEFT AND RIGHT), EMITTING SYSTEM FRAME WORK, ARRANGEMENT FOR EMITTING ELECTRODE, RAPPING MECHANISM FOR COLLECTING ELECTRODE,DRIVE ARRANGEMENT FOR COLLECTING ELECTRODE, RAPPING MECHANISM, CONVEYOR ASSEMBLY, SHOCK BAR GUIDE (RODS TYPE), ADAPTOR COVER, AEROFOIL, PROTECTIVE TUBES, BRACKET 7X X10,7X X26,7X X17 PGMAS, TUBE(RHS) (INCLUDING PACKING), OIL PAN	MT	28
43	TINY	56F	SUPPORT SINGLE,CONNECTION PIECE ,CHIMNEY STRAKES.	MT	97
44	TINY	56G	PLENUM DUCT AND TRANSITION DUCTS OF GATES AND DAMPERS Ref drg:15720303875, PART OF PIPEINGS/COOLING AIR HOODS WHERE SEGMENTAL BENDS MADE OUT OF PLATES / TUBES REF DRG:25512400038	MT	46
45	APHP	56H	APH HOUSING PANELS LIKE BRD PANEL ASSY, RDB PANEL ASSY, SIDE PANEL ASSY INCLUDING PLATE BENDING, ROLLING	MT	16

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RATE SCHEDULE MASTER for ARC(MAIN) 2022-23					
Enq .No:- 652001E			Dt 09.09.2022		
SI No	RS Group	RS No	RS Description	Unit	QTY
46	APHP	56J	ONLY ROLLING, STACKING AND PACKING OF SHELL PLATES - ALL PRODUCTS	MT	7
47	GEN	57A	SUSPENSION FRAME ARRANGEMENT, FRAME PART TOP, FRAME PART BOTTOM - ALL INCLUDING PACKING, TRANSITION DUCTS, ANGULAR DUCTS, OIL PAN RECTIFIER	MT	746
48	GEN	57C	FRAME PART TOP, FRAME PART BOTTOM WITH HOLLOW BEND AT ENDS (BENDING BY HYDRAULIC OR WELDING) INCLUSIVE OF PACKING.	MT	117
49	GEN	57D	SUSPENSION FRAME ARRANGEMENT INCLUDING MANUFACTURE OF HANKING HOOK FROM RAW MATERIAL SUPPLIED BY BHEL	MT	7
50	GEN	57H	HOPPERS WITH TRANSITION FROM SQUARE TO CIRCULAR OPENINGS AND TRANSITION DUCTS HAVING OPENING FROM CIRCULAR TO SQUARE / RECTANGULAR OPENINGS. REF DRG:1-79-845-07058-60.	MT	3448
51	GEN	57J	ABSORBER CASING PANELS, DUCTS WALLS AND DUCT INCLUDING T Y ELBOW, BEND, TRANSITION [WITH OR WITHOUT CORNER WELDING BOTH SIDES RECTANGULAR OPENING] WITH FLANGES HAVING ELYPTICAL OPENING (WHERE FLANGES ARE FORMED BY PLATE) FOR FGD, ESP, FANS, APH, CHIMNEY, ETC REF: 0-FW-322-07260	MT	750
52	GEN	59A	DUCTS WALLS AND DUCT INCLUDING T Y ELBOW, BEND, TRANSITION [WITH OR WITHOUT CORNER WELDING BOTH SIDES RECTANGULAR OPENING], ABSORBER CASING PANELS INVOLVING ALL MATERIALS FOR FGD, ESP, FANS, APH, CHIMNEY, COAL AND ASH HANDLING ETC., HEATING CHAMBER, HOPPER LOWER WITH CORNER WELDING (WITHOUT SS FABRICATION), ROOF OF SUCTION HOOD ,TANK COVER ASSEMBLY, INLET AND OUTLET FUNNEL FOR ESP EXCLUDING TRIAL ASSEMBLY	MT	10500
53	GEN	59B	Hopper Lower with heating chamber with SS fabrication, SS Guide vanes, SS Duct walls.	MT	178
54	PUN	59C	SHOCK BAR GUIDE OF SHEET TYPE,GUIDE VANE.	MT	252
55	GEN	59D	BOLTED TYPE COLUMNS H - TYPE, JI - TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS ABOVE 305 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	1459
56	GEN	59E	BOLTED TYPE BOX BRACINGS FULLY WELDED TYPE, ANGLE / CHANNEL / BEAM BRACINGS WITH FULL COVER PLATES / INTERMITANT COVER PLATES INVOLVING ABOVE ISMC / ISMB 125 FOR ALL PRODUCTS MANUFACTURED OUT OF ROLLED SECTIONS.	MT	3077
57	GEN	59F	Mono rail beams up to Beam 450 with radius rolling	MT	47
58	GEN	59G	Mono rail beams up to Beam > 450 with radius rolling	MT	5
59	GEN	59H	Trestles / Trusses made of Angles / Channels / Hollows etc., Gallery Girders, Transmission / Gallery Structures requird in FGD / CHP / AHP / BOP etc., having full / partial bolted connections.	MT	1862
60	GEN	59J	BOLTED TYPE COLUMNS H - TYPE, JI - TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS & BEAMS ABOVE 203 MM & UP TO 305 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	1400
61	GEN	59K	BOLTED BRACINGS BOX TYPE FULLY WELDED TYPE, CHANNEL/BEAM BRACINGS WITH FULL COVER PLATES/INTERMITANT COVER PLATES MADE OF ANGLES, CHANNEL & BEAM UPTO 125 MM	MT	500
62	GEN	59L	BOLTED TYPE COLUMNS H - TYPE, JI - TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS UP TO 203 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	500
63	WWS	62A	WATER WASHING MANIFOLD FOR APH [INCLUDINGMACHINING OF SADDLE COUPLING] and ESP INCLUDING NIPPLE MACHINING FOR ESP WATER WASHING SYSTEM	MT	25
64	GEN	63A	FAN SILENCER WITH TARPAULIN COVERING, RUBBEREXPN. JOINT [PLY RUBBER BINDING WITH GLUE]	MT	88
65	TINY	64A	BRACKET ASSY MACHINING, PAINTER TROLLEY.	MT	1
66	EXP	65A	METALLIC EXPN.JOINT[BELLOW TYPE]WITH SEAL PLATE, EXPANSION JOINT S TYPE.	MT	532

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Enq .No:- 652001E			Dt 09.09.2022		
SI No	RS Group	RS No	RS Description	Unit	QTY
67	EXP	65B	METALLIC EXPN.JOINT [SAW-TOOTH/BELLOW TYPE] WITH SEAL PLATE, EXPANSION JOINT (STAINLESS STEEL). REF:DRG: 3-FW-252-00006 OR EQUIVALENT	MT	10
68	TINY	65C	Circular type expansion Joint Ref Drg: 3-57-141-16082 or equivalent.	MT	2
69	FSP	67A	SINGLE SUCTION SPIRAL CASING ABOVE 500 KGS , LINER, TRANSITION PIECE, ETC.	MT	8
70	FSP	68B	DOUBLE SUCTION SPIRAL CASING INCLUDING BASE/SUPPORT,ETC.ABOVE 500 KGS TO 30 MT	MT	5
71	FSP	68C	DOUBLE SUCTION SPIRAL CASING INCLUDING BASE/SUPPORT,ETC.ABOVE 30 MT	MT	5
72	PUN	71A	SCREEN SHEETS WITH PUNCHING INCLUDING PACKING	MT	226
73	PUN	72A	INSULATOR RETAINERS [TYPE-D] FROM THE BLANKS AND SCRAP OF SCREEN SHEETS OF RS-71A. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH 10 BUNDLES TO PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO	813641
74	PUN	73A	EE HOLDER - 1000 NOS TO BE PUT PER GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO	910000
75	PUN	74A	Hanging Hook - [150 Nos. To Be Put Per Gunny Bag]. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO	120000
76	TAPH	75A	TUBULAR AIR HEATERS INCLUDING SIDE WALLS ASSY, CASING.	MT	500
77	DAMP	76A	FLAP DAMPER OF FAN [UPTO 0.50 MT]	MT	1
78	DAMP	76B	FLAP DAMPER OF FAN [ABOVE 0.50 MT TO 2.0 MT]	MT	5
79	DAMP	76C	FLAP DAMPER OF FAN [ABOVE 2.0 MT TO 5.0 MT]	MT	25
80	DAMP	76E	FLAP DAMPER OF FAN [ABOVE 7.0 MT TO 10.0 MT]	MT	25
81	DAMP	76F	FLAP DAMPER OF FAN [ABOVE 10 MT]	MT	9
82	DAMP	76G	FLAP DAMPER OF FAN [ABOVE 5.0 MT TO 7.0 MT]	MT	50
83	DAMP	77H	BIPLANE DAMPER INCLUDING SEALS MFG [UPTO 0.50 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	13
84	DAMP	77I	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 0.50 MT TO 2.0 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	2
85	DAMP	77J	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 2.0 MT TO 5.0 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	3
86	DAMP	77K	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 5.0 MT TO 7.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	88
87	DAMP	77L	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 7.0 MT TO 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	168
88	DAMP	77M	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	100
89	DAMP	77N	LOUVRE DAMPER INCLUDING SEALS MFG [UPTO 0.50 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	7
90	DAMP	77O	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 0.50 MT TO 2.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	46
91	DAMP	77P	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 2.0 MT TO 5.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	3
92	DAMP	77Q	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 5.0 MT TO 7.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	1
93	DAMP	77R	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 7.0 MT TO 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	49
94	DAMP	77S	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT	100
95	TINY	102B	SMALL DUS WEIGHING ABOVE 25 KGS TO 50 KGS PER PIECE,OF RATE SCHEDULES 52A TO 54D,[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT	660
96	TINY	102C	SMALL DUS WEIGHING ABOVE 50 KGS TO 100KGS PER PIECE, OF RATE SCHEDULES 52A TO 54D[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT	1174
97	TINY	102D	SMALL DUS WEIGHING UPTO 25 KGS PER PIECE, OF RATE SCHEDULES 52A TO 54D[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT	914
98	TINY	102F	MANUFACTURE OF GALVANISED HAND RAIL POST (ALL TYPES). GALVANIZING TO BE DONE AT BHEL APPROVED SOURCE FOR WHICH CHARGES ARE PAYABLE EXTRA TO GALVANIZING VENDOR BY BHEL).INTERMITTENT TRANSPORT CHARGES PAYBLE EXTRA AS PER BHEL EXTRA RS)	MT	617

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Enq .No:- 652001E			Dt 09.09.2022		
SI No	RS Group	RS No	RS Description	Unit	QTY
99	TINY	103A	MISC ITEMS SUCH AS SHOCK BAR PLATE,SUPPORTS(7XX08)	MT	30
100	IMP	106C	SEAL AIR FAN/RADIAL FAN IMPELLER ASSEMBLY UNIT WT UPTO 500 KGS [HT/NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA.]	MT	5
101	IMP	106D	Rotor Assembly with Transport stand(Seal Air fan) full scope [Heat Treatment, NDT Charges [Other Than LPI]Payable Extra.]	MT	4
102	IMP	106E	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt above 500 kgs and upto 1500 kgs Ref Drg: 1-56-234-04598, 1-56-125-04131 or equivaqlant.	MT	10
103	IMP	106F	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt Above 1500 kgs and upto 3000 kgs - Ref Drg:1-56-226-04591 or equivqlant	MT	10
104	IMP	106G	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV)including balancing - unit Wt Above 3000 kgs upto 4500 kgs - Ref Drg: 1-56-226-04538 or equivalent.	MT	10
105	IMP	106H	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt Above 4500 kgs - Ref Drg: 1-56-227-04367/04046 or equivalent.	MT	10
106	IMP	106J	Extra % for full naxtra Impeller (Applicable for RS 106D to 106H)	%	10
107	PUN	107A	RETAINER - TYPE-D [RAW MATERIAL ISSUED AS SHEETS] RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO	2000000
108	PUN	107B	RETAINER - SQUARE - TYPE-A TO DRG: 6172-0236 MADE OF SH 1.25X903 IS 513 DD [RAW MATERIAL ISSUED IN COIL FORM OF EACH 20 TONS]. ALSO TO DRG NO. [DRG: 6160-0142] MADE OF SHEET 2.00 MM [RAW MATERIAL ISSUED AS SHEETS] TO MAKE USE OF SCREEN SHEET STRIP SCRAP. PACKING IS TO BE DONE AS FOLLOWS. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH. 10 BUNDLES TO BE PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION.	NO	1263158
109	PUN	108A	INSULATOR RETAINERS [TYPE-D1 DRG: 4-79-068-00566] FROM THE BLANKS AND SCRAP OF SCREEN SHEETS OF RS-71A. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH 10 BUNDLES TO PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION.	NO	139240
110	PUN	109A	Aluminum casing supports upto - 650 mm - ref drg: 6160 0141 Var.01	NO	1100000
111	PUN	109B	Aluminum casing supports above - 650 mm - ref drg: 6160 0141 var.03	NO	1033384
112	DAMP	110A	CIRCULAR DAMPERS UPTO 150KG/PIECE	NO	5
113	DAMP	110B	CIRCULAR DAMPERS ABOVE 150KG/PIECE	NO	5
114	IMP	111A	IMPELLER HUB AN TYPE ONLY	MT	5
115	IMP	112A	IMPELLER ASSEMBLY UPTO 500KGS (HUB AS COMPONENET SUPPLIED BY BHEL)	MT	5
116	IMP	112B	IMPELLER ASSEMBLY [ABOVE 500KGS TO 1000 KGS]	MT	5
117	IMP	112C	IMPELLER ASSY [ABOVE1000 KGS] - HUB SUPPLIEDAS COMPONENT BY BHEL - AN TYPE	MT	5
118	IMP	113A	IMPELLER HUB/DEEP DISH END ONLY(CZECH TYPE)	MT	5
119	IMP	114A	IMPELLER ASS Y RUNNING WHEEL UPTO 500 (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT	5
120	IMP	114B	IMPELLER ASS Y RUNNING WHEEL ABOVE 500 TO 1000 KGS (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT	5
121	IMP	114C	IMPELLER ASS Y RUNNING WHEEL ABOVE 1000 KGS (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT	5
122	GATE A	117K	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED UPTO 7 MT. (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT	135
123	GATE B	117L	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED ABOVE 7 MT TO 10 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT	636
124	GATE B	117M	GATE ASSY INCLUDING SEALS MFGELECTRICALLY OPERATED ABOVE 10 MT. (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT	276
125	GATE A	118D	PNEUMATIC FITTINGS AND AIR TANK FOR GATES INCLUDING TESTING	MT	26

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RATE SCHEDULE MASTER for ARC(MAIN) 2022-23					
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SI No	RS Group	RS No	RS Description	Unit	QTY
126	GATE A	118K	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED UPTO 2 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT	47
127	GATE A	118L	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED ABOVE 2 MT TO 7 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT	50
128	GATE B	119K	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED ABOVE 7.0 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT	50
129	FSP	130A	SPIRAL CASING (UPTO 500 KGS PER PIECE)	NO	7
130	IMP	131A	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging 100 Kgs To 500 Kgs HT/NDT Charges [Other than LPI] Payable Extra. Frequency Tuning not In The Firms Scope.	MT	5
131	IMP	131B	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancing for Weight Ranging ABOVE 500 Kgs To 1000 Kgs HT/NDT Charges [Other than LPI] Payable Extra. Frequency Tuning not In The Firms Scope.	MT	5
132	IMP	131C	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancing for Weight Ranging ABOVE 1000 Kgs. HT/NDT Charges [Otherthanlpi] Payable Extra. Frequency Tuning not In The Firms Scope.	MT	5
133	IMP	132A	COMPLETE MANUFACTUERE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB ABRICATION,DYNAMIC BALANCING FOR WEIGHT RANGING 100 KGS TO 500 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT	5
134	IMP	132B	COMPLETE MANUFACTUERE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB FABRICATION,DYNAMIC BALANCING FOR WEIGHT RANGING ABOVE 500 KGS TO 1000 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT	5
135	IMP	132C	COMPLETE MANUFACTUERE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB ABRICATION, DYNAMIC BALANCING FOR WEIGHT RANGING ABOVE 1000 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT	5
136	APHP	135D	APH Housing Items Like Main / Primary / Side / other Pedestals including rolling , bending – BHEL / Alstom Design (BPS Items Supplied As Component)	Mt	18
137	AUTO	137A	FABRICATION OF BUILT UP TRANVERSE ROOF BEAMWHEREIN THE SECTIONS ARE MADE OUT OF PLATESBY SAW [NDT CHARGES [OTHER THAN LPI] ARE PAYABLE EXTRA].	MT	249
138	AUTO	137C	Fabrication of Floor beams, I- Beam, BOX beams, for FGD / CHP/ AHP etc.,(Other than ESP beams) H-type, JI - type, Box type MADE OF E350 MATERIAL where in sections are made of plates by SAW process (NDT Charges other than LPI payable Extra)	MT	820
139	AUTO	137D	Fabrication of longitudinal roof beam / transverse roof beam / roof beams having multiple stiffeners (RandM projects) wherein the sections are made out of plates by saw process. NDT charges [other than LPI]are payable extra.	MT	600
140	AUTO	137E	Fabrication of Beam/Box type built-up columns (4 fillets) covered in FGD/ CHP / AHP/ BOP etc., made of plates of E250 grade material. NDT charges (other than LPI) payable extra	MT	3153
141	AUTO	139A	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE, JI - TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT UPTO 1 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	1000

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RATE SCHEDULE MASTER for ARC(MAIN) 2022-23					
Enq.No:- 652001E			Dt 09.09.2022		
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142	AUTO	139B	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT ABOVE 1 MT AND UPTO 3 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	1501
143	AUTO	139C	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT ABOVE 3 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT	1500
144	AUTO	139D	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT UPTO 1 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT	1000
145	AUTO	139E	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 1 MT & UPTO 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT	1000
146	AUTO	139F	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT	1000
147	AUTO	139R	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade material unit Piece weight upto 10 MT (part of a Du or Single part DU).(attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	20
148	AUTO	139S	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade material unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	30
149	AUTO	139T	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade materials unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	30
150	AUTO	139U	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade materials unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	50
151	AUTO	139V	Beam/Box type bolted design Roof Girders made of E250 grade materials	MT	10
152	AUTO	140A	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT UPTO 1 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT	100
153	AUTO	140B	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 1 MT & UPTO 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT	100

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154	AUTO	140C	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLED CONNECTIONS ON WEB AND FLANGES	MT	100
155	AUTO	140R	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade material unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	50
156	AUTO	140S	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade material unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	50
157	AUTO	140T	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade materials unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	50
158	AUTO	140U	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade materials unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT	50
159	AUTO	140V	Beam/Box type bolted design Roof Girders made of E350 grade materials	MT	50
160	IMP	143A	IMPELLER ASSEMBLY [DL RADIAL TYPE] UPTO 1600MM DIA CZECH DESIGN INCLUDING BALANCING. HT / NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA	MT	10
161	IMP	143B	IMPELLER ASSEMBLY [DL RADIAL TYPE] ABOVE 1600MM DIA CZECH DESIGN INCLUDING BALANCING. HT / NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA	MT	10
162	PUN	160A	SHOCK BAR PLATE TO DRAWING 4-78-324-00361 MADE OUT OF FLAT 65X8.ONE COAT OF REDOXIDE PRIMER AND SMOKE GRAY ALSO TO BE APPLIED. NO INVISIBLE AND PROCESS ALLOWANCE ALLOWED	NO	4998
163	SEAL	161A	LOOSE SEALS OF PORT SEAL, BONNET SEAL, BIPLANE BLADE SEAL, TIP SEAL[RATE PER LEAF]	MR	51080
164	SEAL	163A	WELDED SEAL [SET OF CENTRE SEALS BOTTOM SEAL,SIDE SEAL. STUD SUPPLIED AS COMPONENTS BY BHELIF REQUIRED]	MR	3660
165	SEAL	164A	SINGLE LEAF BLADE SEAL, TIP SEAL.	MR	249165
166	SEAL	164B	BULB SEAL	MR	20506
167	SEAL	165A	SET OF JAMB SEALS	MR	1175
168	IMP	166A	Dynamic Balancing Of Impeller/ hub/ shaft Upto 50 Kg.	NO	1
169	IMP	167A	DYNAMIC BALANCING OF IMPELLER ABOVE 50 KGS TO 200 KGS	NO	5
170	IMP	168A	DYNAMIC BALANCING OF IMPELLER ABOVE 200 KGS	MT	5
171	CHIMA	175B	MANUFACTURE OF CHIMNEY SHELL BASE PLATE(NDT CHARGES(OTHER THAN LPI)PAYABLE EXTRA)	MT	50
172	CHIMA	175C	MANUFACTURE OF CHIMNEY SHELLS THICKNESS UPTO 16 MM WITH TRIAL ASSEMBLY (RATE IS INCLUSIVE OF TRIAL ASSEMBLY)(THE CHIMNEY SHELLS WITH OR WITHOUT FLANGE;SHELLS MADE UP OF HALF SEGMENTS OR FULL(NDTCHARGES (OTHER THANLPI)PAYABLE EXTRA).	MT	100
173	CHIMA	175D	MANUFACTURE OF CHIMNEY SHELLS THICKNESS ABOVE 16 MM UPTO 25 MM WITH TRIAL ASSEMBLY (RATE IS INCLUSIVE OF TRIAL ASSEMBLY).(THE CHIMNEY SHELLS WITH OR WITHOUT FLANGE;SHELLS MADE UP OF HALFSEGMENTSORFULL(NDTCHARGES (OTHER THAN LPI)	MT	12
174	CHIMA	176C	Manufacture And Rolling Of Chimney Shells Thickness Above 25MM To 32 MM With Trial Assembly(Rate Is Inclusive Of Trialassembly).The Chimney Shells Are With Or With Out Flange.Shellsmade Up Of Half Segment Or Full.(NDT Charges (Other Than Lpi)Payable Extra). Additional Material given for rolling allowance will be booked as off-cut.	MT	25

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175	CHIMB	176D	Manufacture And Rolling Of Chimney Shells Thickness Above 32MM To 40 MM With Trial Assembly(Rate Is Inclusive Of Trialassembly).The Chimney Shells Are With Or With Out Flange.Shellsmade Up Of Half Segment Or Full.(NDT Charges (Other Than Lpi)Payable Extra).Additional Material given for rolling allowance will be booked as off-cut.	MT	50
176	CHIMC	176E	MANUFACTURE AND ROLLING OF CHIMNEY SHELLS THICKNESS ABOVE 40MM TO 50 MM WITH TRIAL ASSEMBLY(RATE IS INCLUSIVE OF TRIALASSEMBLY).THE CHIMNEY SHELLS ARE WITH OR WITH OUT FLANGE . SHELLSMADE UP OF HALF SEGMENT OR FULL.(NDT CHARGES (OTHER THAN LPI)PAYABLE EXTRA). ADDITIONAL MATERIAL GIVEN FOR ROLLING ALLOWANCE WILL BE BOOKED AS OFF-CUT.	MT	20
177	TUB	181A	TUBE BENDS FOR HANDRAILS AND PIPE REDUCERS / BENDS UPTO 42.9 MM DIA(SINGLE BEND)	NO	20
178	TUB	181B	TUBE BENDS FOR HANDRAILS AND PIPE REDUCERS/ BENDS ABOVE 42.9 MM AND UPTO 76.1 MM DIA(SINGLE BEND)	NO	2972
179	TUB	181C	TUBE BENDS (MULTIPLE BENDS) FOR HANDRAILS AND PIPE REDUCERS/ BENDS UPTO 42.9 MM DIA	NO	33
180	TUB	181D	Tube Bends (Multiple Bends) For Hand Rails And Pipe Reducers / Bendsabove 42.9 MM Dia And Upto 76.1MM Dia.	NO	800
1	EXTRA	E01	CONVERSION CHARGES FOR FLAT OUT OF PLATES .	MT	
2	EXTRA	E03	MAGNETIC PARTICLE INSPECTION/TESTING [MPI].	MR	
3	EXTRA	E04	RADIOGRAPHY [RT]	MR	
4	EXTRA	E07X	DEDUCTION OF TRANSPORT CHAGES FOR DTS 0 TO 100 KMS	MT	
5	EXTRA	E07Y	DEDUCTION OF TRANSPORT CHAGES FOR DTS 101 TO 350 KMS	MT	
6	EXTRA	E07Z	DEDUCTION OF TRANSPORT CHAGES FOR DTS 351 TO 450	MT	
7	EXTRA	E11	25 MIC OF EPOXYZINC RICH PRIMER [EXCEPT WM XXX]	SM	
8	EXTRA	E14	40 MIC OF WHITE ENAMEL PAINT TO IS2932	SM	
9	EXTRA	E16	25 MIC OF HEAT RESISTANT BLACK BITUMINOUS PAINT TO IS-158	SM	
10	EXTRA	E17A	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED WITH IN 60 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/BLAST CLEANING / BALANCING / HEATTREATMENT / OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY.	MT	
11	EXTRA	E17B	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED BETWEEN 61 KMS AND 160 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/BLAST CLEANING /BALANCING/HEATTREATMENT/ OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY	MT	
12	EXTRA	E17C	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED BETWEEN 161 KMS AND 350 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/ BLAST CLEANING/ BALANCING/ HEATTREATMENT/ OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY	MT	
13	EXTRA	E18	40 MIC OF HIGH BUILD CHLORINATED RUBBER ZINCPHOSPHATE PRIME	SM	
14	EXTRA	E19	5 MIC OF ETCH PRIMER/WASH PRIMER	SM	
15	EXTRA	E20	20 MIC OF SYNTHETIC ENAMEL LONG OIL ALKYD TOIS-2932 [SMOKE GREY AND OTHER SHADES]	SM	
16	EXTRA	E23	25 MIC RUST PREVENTIVE OIL	SM	
17	EXTRA	E24	20 MIC BLACK ENAMEL PAINT TO IS - 2932	SM	
18	EXTRA	E27	50 MIC HIGH BUILD EPOXY PAINT TO IS14209 DARK GREY AND OTHER SHADES	SM	
19	EXTRA	E28	40 MIC EPOXY FINISH PAINT LIGHT GREY AND OTHER SHADES	SM	
20	EXTRA	E29	75 MIC INORGANIC ZINC SILICATE PRIMER TO IS14946	SM	
21	EXTRA	E30	30 MIC CHLOROKOTE ZINC PHOSPHATE TO IS 8632.	SM	

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22	EXTRA	E40	TRIAL ASSY OF TOTAL INLET/OUTLET FUNNEL ASSY[PYRAMID SHAPE] COLUMNS, LONGITUDINAL ROOF BEAMS, TRUSSES (X55), SPIRALCASINGS, TURBINE HALL STRUCTURES, DUCTS ,SILENCERS (ASSEMBLED FROM MULTIPLE BLOCKS), BRACKETS IN X25, SUCTION HOOD OF FANS AND ROOF ASSEMBLY OF FANS ETC.	MT	
23	EXTRA	E41	RECOVERY RATE FOR CS/AS, ASBESTOS , WOOL , CAF SCRAP ETC.	MT	
24	EXTRA	E42	BIG SIZE SCRAP [CS/AS SHEETS/ PLATES]	MT	
25	EXTRA	E43	RECOVERY RATE FOR STAINLESS STEEL [NON-MAGNETIC], NON-FERF	MT	
26	EXTRA	E51	HR ALUMINIUM PAINT [20 MIC] [UP TO 200 DEGREE C] IS 13183 / 1991 GF	SM	
27	EXTRA	E52	HR ALUMINIUM PAINT [20 MIC] [ABOVE 200 DEGREE C] C]IS 13183 / 1991	SM	
28	EXTRA	E54	HR CHIMNEY BLACK PAINT [>250 DEGREE C] / FERROTOL BLACK CHIMN	SM	
29	EXTRA	E55	EPOXY HB MIO TO IS14209 INTERCOAT [125 MIC]	SM	
30	EXTRA	E56	ALIPHATIC PU FINISH TO IS13213 OR EQVT. [75 MIC]	SM	
31	EXTRA	E57	CHLORINATED RUBBER FINISH PAINT DARK GREY [40 MIC]	SM	
32	EXTRA	E59	ETHYL ZINC SILICATE/ZINC DUST ETHYL SILICATE[75 MIC]	SM	
33	EXTRA	E60	HB EPOXY ZINC RICH PRIMER [50 MIC]	SM	
34	EXTRA	E61	CHLORINATED RUBBER BASED TITANIUM OXIDE PIGMENTED INTERMEDIATE PAINT [WHITE] - [50 MIC]	SM	
35	EXTRA	E62	EPOXY RESIN BASED TWO PACK, TITANIUM OXIDEPIGMENTED INTER- MEDIATE PAINT [WHITE] -[100 MIC]	SM	
36	EXTRA	E63	ZINC CHROME PRIMER IS104 40 MICRONS	SM	
37	EXTRA	E64	RED OXIDE ZINC PHOSPHATE PRIMER 80 MICRONS	SM	
38	EXTRA	E65	UT OF WELD,BUTT JOINTS OR FILLET WELDS OF COLUMN BASE [ALL WELDS] THICKNESS 12 TO 32MM ASPER AWS D.1.1	MR	
39	EXTRA	E68	LABOUR COST FOR ONE COAT OF PAINTING. [PAINT- BHEL SUPPLY].	SM	
40	EXTRA	E69	SYNTHETIC ENAMEL TO IS 2932 GREY SHADE RAL 9002 [20 MICRONS].	SM	
41	EXTRA	E71	ULTRASONIC TESTING [UT] OF PLATES / STRUCTURALS	SM	
42	EXTRA	E72	CONVERSION CHARGES FOR EXPORT PACKING [FOR FINISHED COMPO	MT	
43	EXTRA	E73	RECOVERY RATE FOR STAINLESS STEEL [MAGNETIC] SCRAP	MT	
44	EXTRA	E76	CONVERSION CHARGES FOR STRUCTURALS TO STRUCTURALS	MT	
45	EXTRA	E77	JOINTS OF CS/ HIGH TENSILE PLATES UPTO 4 MM/RM	MR	
46	EXTRA	E78	JOINTS OF CS/HIGH TENSILE PLATES 5MM TO 10 MM/RM	MR	
47	EXTRA	E79	JOINTS OF PLATES 12 TO 20 MM /RM	MR	
48	EXTRA	E80	JOINTS OF BEAM/CHANNEL UPTO 200 MM /JT.	NO	
49	EXTRA	E81	JOINTS OF BEAM/CHANNEL 201MM - 300 MM /JT.	NO	
50	EXTRA	E82	JOINTS OF BEAM/CHANNEL 301- 450 MM /JT.	NO	
51	EXTRA	E83	JOINTS OF ANGLES UPTO 75X75X8	NO	
52	EXTRA	E84	JOINTS OF ANGLES ABOVE 75X75X8 UPTO 100X100X12	NO	
53	EXTRA	E85	JOINTS OF ANGLES ABOVE 100X100X12	NO	
54	EXTRA	E86	JOINTS IN BEAM /CHANNEL ABOVE 450 MM	NO	
55	EXTRA	E87	ADDITIONA JOINTS FOR PLATES 21-25 MM/RM	MR	
56	EXTRA	E88	ADDITIONAL JOINTS FOR PLATES 26-32MM/RM	MR	
57	EXTRA	E89	ADDITIONAL JOINTS FOR PLATES 33-36 MM /RM	MR	
58	EXTRA	E90	ADDITIONAL JOINTS FOR PLATES 37-40 MM/RM	MR	
59	EXTRA	E91	ADDITIONAL JOINTS FOR PLATES 41 - 50 MM /RM	MR	
60	EXTRA	E92	ADDITIONAL JOINTS FOR PLATES 51-56 MM /RM	MR	
61	EXTRA	E93	ADDITIONAL JOINTS FOR PLATES 57 MM AND ABOVE/RM	MR	
62	EXTRA	E94	CHLORINATED RUBBER FINISH PAINT (RAL)- 40 MICRONS	SM	
63	EXTRA	E95	TESTING CHARGES OF GATE/DAMPER ASSEMBLY ELECTRICALLY / PNEUMATICALLY OPERATED UPTO 7 MT	NO	
64	EXTRA	E96	TESTING CHARGES OF GATE / DAMPER ASSY ELECTRICALLY / PNEUMATICALLY OPERATED ABOVE 7 AND UPTO 10 MT.	NO	
65	EXTRA	E97	TESTING CHARGES OF GATE ASY ELECTRICALLY OPERATED ABOVE 10 MT.	NO	
66	EXTRA	E98	EXTRA CHARGES PAYABLE FOR FIXING OF BULB SEALS (BULB SEALS ISSUED AS FREE BY BHEL)	MT	
67	EXTRA	E99	JOINTS OF Stainless Steel PLATES UPTO 4 MM/RM	MR	

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68	EXTRA	E100	JOINTS OF Stainless Steel PLATES 5 mm TO 10 MM/RM	MR	
69	EXTRA	E102	PAINTING - ZINC PHOSPHATE PRIMER - GREY SHADE 40 MICRONS	SM	
70	EXTRA	E103	% for full CORTEN - A material fabrication - all Rate schedules in GEN, CHIM A, B and C	%	
71	EXTRA	E104	TITANIUM DUCT WELDING	MR	
72	EXTRA	E105	EPOXY GLASS FLAKE PAINT TO 125 MIC	SM	
73	EXTRA	E106	HIGH BUILD CHLORINATED RUBBER BASED INTERMEDIATE PAINT 60MIC	SM	
74	EXTRA	E107	COMMERICAL BLASTING TO SA2	SM	
75	EXTRA	E108	HEAT RESISTANCE ALUMINIUM PAINT (Gr -I) 400-600°C TO IS 13183 20MIC	SM	

SECTION -IIIB				
RATE SCHEDULE MASTER - GROUP WISE for OS(MAIN) ARC 2022-23				
Enq .No:- 652001E			Dt 09.09.2022	
SI No	RS Group	RS No	RS Description	Unit
1	APHP	56H	APH HOUSING PANELS LIKE BRD PANEL ASSY, RDB PANEL ASSY, SIDE PANEL ASSY INCLUDING PLATE BENDING, ROLLING	MT
		56J	ONLY ROLLING, STACKING AND PACKING OF SHELL PLATES - ALL PRODUCTS	MT
		135D	APH Housing Items Like Main / Primary / Side / other Pedestals including rolling , bending – BHEL / Alstom Design (BPS Items Supplied As Component)	MT
2	AUTO	137A	FABRICATION OF BUILT UP TRANSVERSE ROOF BEAMWHEREIN THE SECTIONS ARE MADE OUT OF PLATESBY SAW [NDT CHARGES [OTHER THAN LPI] ARE PAYABLE EXTRA].	MT
		137C	Fabrication of Floor beams, I- Beam, BOX beams, for FGD / CHP/ AHP etc.,(Other than ESP beams) H-type,][- type, Box type MADE OF E350 MATERIAL where in sections are made of plates by SAW process (NDT Charges other than LPI payable Extra)	MT
		137D	Fabrication of longitudinal roof beam / transverse roof beam / roof beams having multiple stiffeners (RandM projects) wherein the sections are made out of plates by saw process. NDT charges [other than LPI]are payable extra.	MT
		137E	Fabrication of Beam/Box type built-up columns (4 fillets) covered in FGD/ CHP / AHP/ BOP etc., made of plates of E250 grade material. NDT charges (other than LPI) payable extra	MT
		139A	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT UPTO 1 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		139B	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT ABOVE 1 MT AND UPTO 3 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		139C	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT ABOVE 3 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		139D	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT UPTO 1 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
		139E	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 1 MT & UPTO 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
		139F	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
139R	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade material unit Piece weight upto 10 MT (part of a Du or Single part DU).(attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT		

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		139S	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade material unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		139T	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade materials unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		139U	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade materials unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		139V	Beam/Box type bolted design Roof Girders made of E250 grade materials	MT
		140A	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT UPTO 1 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
		140B	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 1 MT & UPTO 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
		140C	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
		140R	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade material unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		140S	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade material unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		140T	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade materials unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		140U	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade materials unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
		140V	Beam/Box type bolted design Roof Girders made of E350 grade materials	MT
3	CHIMA	175B	MANUFACTURE OF CHIMNEY SHELL BASE PLATE(NDT CHARGES(OTHER THAN LPI)PAYABLE EXTRA)	MT
		175C	MANUFACTURE OF CHIMNEY SHELLS THICKNESS UPTO 16 MM WITH TRIAL ASSEMBLY (RATE IS INCLUSIVE OF TRAIL ASSEMBLY)(THE CHIMNEY SHELLS WITH OR WITHOUT FLANGE;SHELLS MADE UP OF HALF SEGMENTS OR FULL(NDTCHARGES (OTHER THANLPI)PAYABLE EXTRA).	MT

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		175D	MANUFACTURE OF CHIMNEY SHELLS THICKNESS ABOVE 16 MM UPTO 25 MM WITH TRIAL ASSEMBLY (RATE IS INCLUSIVE OF TRIAL ASSEMBLY).(THE CHIMNEY SHELLS WITH OR WITHOUT FLANGE;SHELLS MADE UP OF HALFSEGMENTSORFULL(NDTCHARGES (OTHER THAN LPI)	MT
		176C	Manufacture And Rolling Of Chimney Shells Thickness Above 25MM To 32 MM With Trial Assembly(Rate Is Inclusive Of Trialassembly).The Chimney Shells Are With Or With Out Flange.Shellsmade Up Of Half Segment Or Full.(NDT Charges (Other Than Lpi)Payable Extra). Additional Material given for rolling allowance will be booked as off-cut.	MT
4	CHIMB	176D	Manufacture And Rolling Of Chimney Shells Thickness Above 32MM To 40 MM With Trial Assembly(Rate Is Inclusive Of Trialassembly).The Chimney Shells Are With Or With Out Flange.Shellsmade Up Of Half Segment Or Full.(NDT Charges (Other Than Lpi)Payable Extra).Additional Material given for rolling allowance will be booked as off-cut.	MT
5	CHIMC	176E	MANUFACTURE AND ROLLING OF CHIMNEY SHELLS THICKNESS ABOVE 40MM TO 50 MM WITH TRIAL ASSEMBLY(RATE IS INCLUSIVE OF TRIALASSEMBLY).THE CHIMNEY SHELLS ARE WITH OR WITH OUT FLANGE . SHELLSMADE UP OF HALF SEGMENT OR FULL.(NDT CHARGES (OTHER THAN LPI)PAYABLE EXTRA). ADDITIONAL MATERIAL GIVEN FOR ROLLING ALLOWANCE WILL BE BOOKED AS OFF-CUT.	MT
6	DAMP	76A	FLAP DAMPER OF FAN [UPTO 0.50 MT]	MT
		76B	FLAP DAMPER OF FAN [ABOVE 0.50 MT TO 2.0 MT]	MT
		76C	FLAP DAMPER OF FAN [ABOVE 2.0 MT TO 5.0 MT]	MT
		76E	FLAP DAMPER OF FAN [ABOVE 7.0 MT TO 10.0 MT]	MT
		76F	FLAP DAMPER OF FAN [ABOVE 10 MT]	MT
		76G	FLAP DAMPER OF FAN [ABOVE 5.0 MT TO 7.0 MT]	MT
		77H	BIPLANE DAMPER INCLUDING SEALS MFG [UPTO 0.50 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77I	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 0.50 MT TO 2.0 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77J	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 2.0 MT TO 5.0 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77K	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 5.0 MT TO 7.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77L	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 7.0 MT TO 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77M	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77N	LOUVRE DAMPER INCLUDING SEALS MFG [UPTO 0.50 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77O	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 0.50 MT TO 2.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77P	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 2.0 MT TO 5.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77Q	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 5.0 MT TO 7.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77R	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 7.0 MT TO 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
		77S	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
				110A
		110B	CIRCULAR DAMPERS ABOVE 150KG/PIECE	NO
7	EXP	65A	METALLIC EXPN.JOINT[BELLOW TYPE]WITH SEAL PLATE, EXPANSION JOINT S TYPE.	MT
		65B	METALLIC EXPN.JOINT [SAW-TOOTH/BELLOW TYPE] WITH SEAL PLATE, EXPANSION JOINT (STAINLESS STEEL). REF:DRG: 3-FW-252-00006 OR EQUIVALENT	MT
8	FSP	67A	SINGLE SUCTION SPIRAL CASING ABOVE 500 KGS , LINER, TRANSITION PIECE, ETC.	MT
		68B	DOUBLE SUCTION SPIRAL CASING INCLUDING BASE/SUPPORT,ETC.ABOVE 500 KGS TO 30 MT	MT
		68C	DOUBLE SUCTION SPIRAL CASING INCLUDING BASE/SUPPORT,ETC.ABOVE 30 MT	MT

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		130A	SPIRAL CASING (UPTO 500 KGS PER PIECE)	NO
9	GATE A	117K	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED UPTO 7 MT. (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
		118D	PNEUMATIC FITTINGS AND AIR TANK FOR GATES INCLUDING TESTING	MT
		118K	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED UPTO 2 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
		118L	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED ABOVE 2 MT TO 7 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
10	GATE B	117L	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED ABOVE 7 MT TO 10 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
		117M	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED ABOVE 10 MT. (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
		119K	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED ABOVE 7.0 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
11	GEN	51A	CUT TO SIZE / SUIT DUS PER PIECE WEIGHT > 100 KGS, STRUCTURALS CUTTING FROM BEAMS, CHANNELS. STRUCTURALS / HAND RAIL TUBES TO BE CUT TO SIZE FOR GALVANIZING AND REQD. IN RM.(BLASTING and GALVANIZING CHARGES ARE PAYABLE EXTRA TO THE RESPECTIVE VENDOR).	MT
		51B	CUT TO SIZE DUs PER PIECE WEIGHING ABOVE 10 KGS AND UPTO 25KGS	MT
		51C	CUT TO SIZE DUs PER PIECE WEIGHING MORE THAN 25KGS AND UPTO 50KGS	MT
		51D	CUT TO SIZE DUs PER PIECE WEIGHING MORE THAN 50KGS TO 100KGS	MT
		51E	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 10 KGS AND UPTO 25KGS	MT
		51F	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 25 KGS TO 50 KGS	MT
		51G	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 50 KGS TO 100 KGS	MT
		51H	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 2 KGS AND UPTO 10 KGS	MT
		51J	CUT TO SUIT OF DUS PER PIECE (UNIT) WEIGHT ABOVE 2 KGS AND UPTO 10 KGS	MT
		51K	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT UPTO 0.2 KG	NO
		51L	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.2 KG TO 0.5 KG	NO
		51M	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.5 KG TO 2 KG	NO
		51P	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT UPTO 0.2 KG	NO
		51Q	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.2 KG TO 0.5 KG	NO
		51R	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.5 KG TO 2 KG	NO
		52A	MONORAIL BEAM (STRAIGHT), LONGITUDINAL, TRANSVERSE/BEAM [ROLLED SECTION] HAVING FULL / PARTIAL BOLTED CONNECTION, CARBON STEEL EXTRA WIDTH PLATE, PACKING CRATES	MT
		53A	ROOF TRUSSES (IN X55), CORTEN EXTRA WIDTH PLATES, SUPPORT BEAM WITH COVER PLATE WELDING, BOX TYPE BRACING FULLY WELDED TYPE, CHANNEL/BEAM BRACINGS WITH FULL COVER PLATES/INTERMITANT COVER PLATES, SILENCER BASE/SUPPORTS, MONORAIL BEAM (STRAIGHT) INVOLVING ADDITIONAL CHANNEL ON TOP FLANGE (ROLLED SECTION)	MT
53B	WELDED DESIGN ESP / BUNKER / FGD / CHP / AHP / BOP COLUMNS H,]], BOX TYPE TO BE MANUFACTURED OUT OF ROLLED SECTION CHANNEL & BEAM ABOVE 203 MM & UPTO 305MM [NDT CHANGES [OTHER THAN LPI] ARE PAYABLE ETC.	MT		

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		53C	WELDED DESIGN ESP / BUNKER / FGD / CHP / AHP / BOP COLUMNS H,][, BOX TYPE TO BE MANUFACTURED OUT OF ROLLED SECTION CHANNEL & BEAM ABOVE 305MM [NDT CHARGES [OTHER THAN LPI] ARE PAYABLE ETC.	MT
		53H	HOPPER RIDGES WITH COVER PLATE AND STIFFENER IN X43	MT
		53J	WELDED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS UP TO 203 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		54B	ROOF PANELS ASSY WITH COLLAR [BOTH SQUARE AND ROUND TYPE]	MT
		54E	MANUFACTURE OF A) FGD TANKS SHELLS (LS SLURRY TANK, PROCESS WATER TANK, DM WATER TANK ETC - BOTTOM TO TOP TIERS MADE FROM PLATES 16 MM TO 6 MM THICK) INCLUSIVE OF TANK COVERS AND TANK BASE (CONICAL). REF DRG: 0FW74200683 B) CYCLONE SEPARATOR INVOLVING SHELL ROLLING / CONE ROLLING OF UP TO 16 MM THICK. C) SHOCK BAR(FLAT TYPE) EXCLUDING HEAT TREATMENT.	MT
		54F	Manufacture and trial assembly of Conical Hoppers of ESP - Having multiple tiers including SS lining - Ref Drg: 0-79-845-01619,20	MT
		54G	Manufacture of silo tank shells both straight and conical with Stainless steel liner sheets & also having drill holes (for plug welding)	MT
		54H	Complete manufacture of ring girders used for mounting silos / Tanks made of plates. Ref Drg: 06610000012 or Equivalent	MT
		56A	FRAME PART MIDDLE [INCLUDING PACKING] & PIPE SUPPORT SADDLE FOR VARIOUS SIZES	MT
		57A	SUSPENSION FRAME ARRANGEMENT, FRAME PART TOP, FRAME PART BOTTOM - ALL INCLUDING PACKING, TRANSITION DUCTS, ANGULAR DUCTS, OIL PAN RECTIFIER	MT
		57C	FRAME PART TOP, FRAME PART BOTTOM WITH HOLLOW BEND AT ENDS (BENDING BY HYDRAULIC OR WELDING) INCLUSIVE OF PACKING.	MT
		57D	SUSPENSION FRAME ARRANGEMENT INCLUDING MANUFACTURE OF HANKING HOOK FROM RAW MATERIAL SUPPLIED BY BHEL	MT
		57H	HOPPERS WITH TRANSITION FROM SQUARE TO CIRCULAR OPENINGS AND TRANSITION DUCTS HAVING OPENING FROM CIRCULAR TO SQUARE / RECTANGULAR OPENINGS. REF DRG:1-79-845-07058-60.	MT
		57J	ABSORBER CASING PANELS, DUCTS WALLS AND DUCT INCLUDING T Y ELBOW, BEND, TRANSITION [WITH OR WITHOUT CORNER WELDING BOTH SIDES RECTANGULAR OPENING] WITH FLANGES HAVING ELYPTICAL OPENING (WHERE FLANGES ARE FORMED BY PLATE) FOR FGD, ESP, FANS, APH, CHIMNEY, ETC REF: 0-FW-322-07260	MT
		59A	DUCTS WALLS AND DUCT INCLUDING T Y ELBOW, BEND, TRANSITION [WITH OR WITHOUT CORNER WELDING BOTH SIDES RECTANGULAR OPENING], ABSORBER CASING PANELS INVOLVING ALL MATERIALS FOR FGD, ESP, FANS, APH, CHIMNEY, COAL AND ASH HANDLING ETC., HEATING CHAMBER, HOPPER LOWER WITH CORNER WELDING (WITHOUT SS FABRICATION), ROOF OF SUCTION HOOD ,TANK COVER ASSEMBLY, INLET AND OUTLET FUNNEL FOR ESP EXCLUDING TRIAL ASSEMBLY	MT
		59B	Hopper Lower with heating chamber with SS fabrication, SS Guide vanes, SS Duct walls.	MT
		59D	BOLTED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS ABOVE 305 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		59E	BOLTED TYPE BOX BRACINGS FULLY WELDED TYPE, ANGLE / CHANNEL / BEAM BRACINGS WITH FULL COVER PLATES / INTERMITANT COVER PLATES INVOLVING ABOVE ISMC / ISMB 125 FOR ALL PRODUCTS MANUFACTURED OUT OF ROLLED SECTIONS.	MT
		59F	Mono rail beams up to Beam 450 with radius rolling	MT
		59G	Mono rail beams up to Beam > 450 with radius rolling	MT

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		59H	Trestles / Trusses made of Angles / Channels / Hollows etc., Gallery Girders, Transmission / Gallery Structures require in FGD / CHP / AHP / BOP etc., having full / partial bolted connections.	MT
		59J	BOLTED TYPE COLUMNS H - TYPE, JI - TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS & BEAMS ABOVE 203 MM & UP TO 305 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		59K	BOLTED BRACINGS BOX TYPE FULLY WELDED TYPE, CHANNEL/BEAM BRACINGS WITH FULL COVER PLATES/INTERMITANT COVER PLATES MADE OF ANGLES, CHANNEL & BEAM UPTO 125 MM	MT
		59L	BOLTED TYPE COLUMNS H - TYPE, JI - TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS UP TO 203 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
		63A	FAN SILENCER WITH TARPAULIN COVERING, RUBBEREXP. JOINT [PLY RUBBER BINDING WITH GLUE]	MT
12	IMP	106C	SEAL AIR FAN/RADIAL FAN IMPELLER ASSEMBLY UNIT WT UPTO 500 KGS [HT/NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA.]	MT
		106D	Rotor Assembly with Transport stand(Seal Air fan) full scope [Heat Treatment, NDT Charges [Other Than LPI]Payable Extra.]	MT
		106E	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt above 500 kgs and upto 1500 kgs Ref Drg: 1-56-234-04598, 1-56-125-04131 or equivaqlant.	MT
		106F	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt Above 1500 kgs and upto 3000 kgs - Ref Drg:1-56-226-04591 or equivqlant	MT
		106G	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV)including balancing - unit Wt Above 3000 kgs upto 4500 kgs - Ref Drg: 1-56-226-04538 or equivalent.	MT
		106H	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt Above 4500 kgs - Ref Drg: 1-56-227-04367/04046 or equivalent.	MT
		106J	Extra % for full naxtra Impeller (Applicable for RS 106D to 106H)	%
		111A	IMPELLER HUB AN TYPE ONLY	MT
		112A	IMPELLER ASSEMBLY UPTO 500KGS (HUB AS COMPONENET SUPPLIED BY BHEL)	MT
		112B	IMPELLER ASSEMBLY [ABOVE 500KGS TO 1000 KGS]	MT
		112C	IMPELLER ASSY [ABOVE1000 KGS] - HUB SUPPLIEDAS COMPONENT BY BHEL - AN TYPE	MT
		113A	IMPELLER HUB/DEEP DISH END ONLY(CZECH TYPE)	MT
		114A	IMPELLER ASS Y RUNNING WHEEL UPTO 500 (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT
		114B	IMPELLER ASS Y RUNNING WHEEL ABOVE 500 TO 1000 KGS (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT
		114C	IMPELLER ASS Y RUNNING WHEEL ABOVE 1000 KGS (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT
		131A	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging 100 Kgs To 500 Kgs HT/NDT Charges [Other than LPI] Payable Extra. Frequency Tuning not In The Firms Scope.	MT
		131B	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging ABOVE 500 Kgs To 1000 Kgs HT/NDT Charges [Other than LPI] Payable Extra. Frequency Tuning not In The Firms Scope.	MT
		131C	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging ABOVE 1000 Kgs. HT/NDT Charges [Otherthanlpi] Payable Extra. Frequency Tuning not In The Firms Scope.	MT
		132A	COMPLETE MANUFACTUERE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB ABRICATION,DYNAMIC BALANCING FOR WEIGHT RANGING 100 KGS TO 500 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT

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SI No	RS Group	RS No	RS Description	Unit
		132B	COMPLETE MANUFACTURE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB FABRICATION,DYNAMIC BALANCING FOR WEIGHT RANGING ABOVE 500 KGS TO 1000 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT
		132C	COMPLETE MANUFACTURE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB ABRICATION, DYNAMIC BALANCING FOR WEIGHT RANGING ABOVE 1000 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT
		143A	IMPELLER ASSEMBLY [DL RADIAL TYPE] UPTO 1600MM DIA CZECH DESIGN INCLUDING BALANCING. HT / NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA	MT
		143B	IMPELLER ASSEMBLY [DL RADIAL TYPE] ABOVE 1600MM DIA CZECH DESIGN INCLUDING BALANCING. HT / NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA	MT
		166A	Dynamic Balancing Of Impeller/ hub/ shaft Upto 50 Kg.	NO
		167A	DYNAMIC BALANCING OF IMPELLER ABOVE 50 KGS TO 200 KGS	NO
		168A	DYNAMIC BALANCING OF IMPELLER ABOVE 200 KGS	MT
13	PUN	54D	SCREEN SHEETS WITHOUT PUNCHING(INCLUDING PACKING),VERTICAL SPLITTER,HOPPER DEFELECTION PLATE,ATTACHMENT IRON,RIDGE CAPSHEETS IN X43,SHIELD,ANGLE BAR ,MOTOR SHIELD,SIDE EAVES,END EAVES.	MT
		59C	SHOCK BAR GUIDE OF SHEET TYPE,GUIDE VANE.	MT
		71A	SCREEN SHEETS WITH PUNCHING INCLUDING PACKING	MT
		72A	INSULATOR RETAINERS [TYPE-D] FROM THE BLANKS AND SCRAP OF SCREEN SHEETS OF RS-71A. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH 10 BUNDLES TO PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
		73A	EE HOLDER - 1000 NOS TO BE PUT PER GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
		74A	Hanging Hook - [150 Nos. To Be Put Per Gunny Bag]. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
		107A	RETAINER - TYPE-D [RAW MATERIAL ISSUED AS SHEETS] RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
		107B	RETAINER - SQUARE - TYPE-A TO DRG: 6172-0236 MADE OF SH 1.25X903 IS 513 DD [RAW MATERIAL ISSUED IN COIL FORM OF EACH 20 TONS]. ALSO TO DRG NO. [DRG: 6160-0142] MADE OF SHEET 2.00 MM [RAW MATERIAL ISSUED AS SHEETS] TO MAKE USE OF SCREEN SHEET STRIP SCRAP. PACKING IS TO BE DONE AS FOLLOWS. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH. 10 BUNDLES TO BE PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION.	NO
		108A	INSULATOR RETAINERS [TYPE-D1 DRG: 4-79-068-00566] FROM THE BLANKS AND SCRAP OF SCREEN SHEETS OF RS-71A. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH 10 BUNDLES TO PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION.	NO
		109A	Aluminum casing supports upto - 650 mm - ref drg: 6160 0141 Var.01	NO
		109B	Aluminum casing supports above - 650 mm - ref drg: 6160 0141 var.03	NO
		160A	SHOCK BAR PLATE TO DRAWING 4-78-324-00361 MADE OUT OF FLAT 65X8.ONE COAT OF REDOXIDE PRIMER AND SMOKE GRAY ALSO TO BE APPLIED. NO INVISIBLE AND PROCESS ALLOWANCE ALLOWED	NO
14	SEAL	161A	LOOSE SEALS OF PORT SEAL, BONNET SEAL, BIPLANE BLADE SEAL, TIP SEAL[RATE PER LEAF]	MR
		163A	WELDED SEAL [SET OF CENTRE SEALS BOTTOM SEAL,SIDE SEAL. STUD SUPPLIED AS COMPONENTS BY BHEL IF REQUIRED]	MR

SECTION -IIIB				
RATE SCHEDULE MASTER - GROUP WISE for OS(MAIN) ARC 2022-23				
Enq .No:- 652001E			Dt 09.09.2022	
SI No	RS Group	RS No	RS Description	Unit
		164A	SINGLE LEAF BLADE SEAL, TIP SEAL.	MR
		164B	BULB SEAL	MR
		165A	SET OF JAMB SEALS	MR
15	SSCT	52S	COMPLETE MANUFACTURE OF STAINLESS STEEL CORNER TUBE SEGMENT INCLUDING PACKING AS PER THE DRAWING FOR WHICH STAINLESS STEEL PLATE 5 / 6 MM RAW MATERIAL WILL BE ISSUED FROM BHEL. SAMPLE DRAWING 3-79-744-03243. UNIT WEIGHT 30.764 KG. RATE INCLUSIVE OF ONE JOINT PER PIECE	MT
16	TAPH	75A	TUBULAR AIR HEATERS INCLUDING SIDE WALLS ASSY, CASING.	MT
17	TINY	52B	WELDED TYPE SMALL GALLERIES, BEAMS (ROLLED SECTION), HOLLOW BRACINGS, RECTIFIER HANDLING SYSTEM, PENT HOUSE PURLIN CHANNEL TYPE, HOPPER APPROACH PLATFORM FRAMES WITH PLATES, LADDER, STAIR BEAM, CONTROL ROOM INSERTS, BRACINGS NON BOX TYPE, SUPPORTING BEAMS MADE OUT OF CHANNEL/BEAM, SIDE BEAM, MIDDLE BEAM, WALK WAY (ROLLED STRUCTURE), SUPPORT, SUPPORTING CHANNELS, BRACKETS, HOPPER CORNER TUBES (FROM IS2062 TUBES OR PLATES) REQUIRED FOR ESP / APH / FANS / GATES AND DAMPERS AND FGD PRODUCTS.	MT
		52C	VERTICAL STAY (INCLUDING PACKING).	MT
		52D	HORIZONTAL SPLITTERS,GUSSET PLATES.	MT
		52E	HOPPER RIDGES WITHOUT COVER PLATE IN X43	MT
		53D	SHOCK BAR (ANGLE TYPE)	MT
		53F	RAILINGS, CONTROL FRAMES, DUCT SUPPORTS, BAP TRUSSES (OTHER THAN ROOF TRUSSES IN X55) TRUSS BEAMS, STAIRS (WELDED TYPE), STRINGERS, PURLINS ROD TYPE, STAR ANGLE, B/B ANGLE, APPROACH PLATFORM FRAMES WITH OUT PLATES, SUPPORTING BEAM WITH TRUSS ASSEMBLY	MT
		53G	STOOL ASSEMBLY.	MT
		53K	LADDERS (LADDER WITH CAGE), SHIPPING LADDER (STAIRS MADE OF PLATES)	MT
		53M	SHOCK BAR (ANGLE TYPE) INCLUDING MANUFACTURE OF SHOCK BAR PLATE FROM RAW MATERIAL ISSUED BY BHEL.	MT
		54C	SHOCK BEAM, ANGLE BAR, SUPPORT IN X42,SUPPORT ANGLE, CASING INSERTS, WALKWAY WITH COVER PLATE, VERTICAL BEAM.	MT
		56C	INSULATOR HOUSING ASSYEMBLY X06 SINGLE WITH OR WITHOUT HT CONNECTION	MT
		56D	INSULATOR HOUSING ASSYEMBLY[7XX06] DOUBLE WITH OR WITHOUT HT CONNECTION, INSULATOR HOUSING ASSY [X17] TAPER,SUPPORT DOUBLE.	MT
		56E	GAS DISTRIBUTOR ASSEMBLY, EMITTING SYSTEM SUSPENSION, INSPECTION DOOR AND INTERLOCKS, SCREW (LEFT AND RIGHT), EMITTING SYSTEM FRAME WORK, ARRANGEMENT FOR EMITTING ELECTRODE, RAPPING MECHANISM FOR COLLECTING ELECTRODE,DRIVE ARRANGEMENT FOR COLLECTING ELECTRODE, RAPPING MECHANISM, CONVEYOR ASSEMBLY, SHOCK BAR GUIDE (RODS TYPE), ADAPTOR COVER, AEROFOIL, PROTECTIVE TUBES, BRACKET 7X X10,7X X26,7X X17 PGMAS, TUBE(RHS) (INCLUDING PACKING), OIL PAN	MT
		56F	SUPPORT SINGLE,CONNECTION PIECE ,CHIMNEY STRAKES.	MT
		56G	PLENUM DUCT AND TRANSITION DUCTS OF GATES AND DAMPERS Ref drg:15720303875, PART OF PIPEINGS/COOLING AIR HOODS WHERE SEGMENTAL BENDS MADE OUT OF PLATES / TUBES REF DRG:25512400038	MT
		64A	BRACKET ASSY MACHINING, PAINTER TROLLEY.	MT
		65C	Circular type expansion Joint Ref Drg: 3-57-141-16082 or equivalent.	MT
		102B	SMALL DUS WEIGHING ABOVE 25 KGS TO 50 KGS PER PIECE,OF RATE SCHEDULES 52A TO 54D,[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT
		102C	SMALL DUS WEIGHING ABOVE 50 KGS TO 100KGS PER PIECE, OF RATE SCHEDULES 52A TO 54D[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT

SECTION -IIIB				
RATE SCHEDULE MASTER - GROUP WISE for OS(MAIN) ARC 2022-23				
Enq .No:- 652001E			Dt 09.09.2022	
SI No	RS Group	RS No	RS Description	Unit
		102D	SMALL DUS WEIGHING UPTO 25 KGS PER PIECE, OF RATE SCHEDULES 52A TO 54D[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT
		102F	MANUFACTURE OF GALVANISED HAND RAIL POST (ALL TYPES). GALVANIZING TO BE DONE AT BHEL APPROVED SOURCE FOR WHICH CHARGES ARE PAYABLE EXTRA TO GALVANIZING VENDOR BY BHEL).INTERMITTENT TRANSPORT CHARGES PAYBLE EXTRA AS PER BHEL EXTRA RS)	MT
		103A	MISC ITEMS SUCH AS SHOCK BAR PLATE,SUPPORTS(7XX08)	MT
18	TUB	181A	TUBE BENDS FOR HANDRAILS AND PIPE REDUCERS / BENDS UPTO 42.9 MM DIA(SINGLE BEND)	NO
		181B	TUBE BENDS FOR HANDRAILS AND PIPE REDUCERS/ BENDS ABOVE 42.9 MM AND UPTO 76.1 MM DIA(SINGLE BEND)	NO
		181C	TUBE BENDS (MULTIPLE BENDS) FOR HANDRAILS AND PIPE REDUCERS/ BENDS UPTO 42.9 MM DIA	NO
		181D	Tube Bends (Multiple Bends) For Hand Rails And Pipe Reducers / Bendsabove 42.9 MM Dia And Upto 76.1MM Dia.	NO
19	WWS	62A	WATER WASHING MANIFOLD FOR APH [INCLUDINGMACHINING OF SADDLE COUPLING] and ESP INCLUDING NIPPLE MACHINING FOR ESP WATER WASHING SYSTEM	MT

SECTION - III - C
Enquiry No: 652001E dated.09-09-2022
GROUP WISE ELIGIBILITY CRITERIA FOR OS (MAIN) ARC 2022-23

RS Group	RS Group Description	Mandatory Manufacturing requirement	RS Number	RS Count	Distance (KM)
APHP	Air Pre heater panels and pedestals	General Fabrication Facility.	56H, 56J,135D	3	350
AUTO	Auto (SAW) welding process	General Fabrication Facility. Auto Welding(SAW) machine with necessary fixtures and railings.	137A,137C,137D,137E,139A,139B,139C,139D,139E,139F,139R,139S,139T,139U,139V,140A,140B,140C,140R,140S,140T,140U,140V.	23	350
CHIMA	Chimney base and shells	General Fabrication Facility. 3 roller / 4 roller plate rolling machine capacity upto 32 mm thick.	175B,175C,175D, 176C	4	350
CHIMB	Chimney base and shells	General Fabrication Facility. 3 roller / 4 roller plate rolling machine capacity upto 40 mm thick.	176D	1	350
CHIMC	Chimney base and shells	General Fabrication Facility. 3 roller / 4 roller plate rolling machine capacity upto 50 mm thick.	176E	1	350
DAMP	Dampers (Louver and Biplane)	General Fabrication Facility.	76A,76B,76C,76E,76F,76G,77H,77I,77J,77K,77L,77M, 77N,77O,77P, 77Q, 77R, 77S, 110A,110B.	20	350
EXP	Expansion Joints (Saw-tooth/Bellow type)	General Fabrication Facility. Press brake/plate bending facility (6 mm x 2500 and above)	65A,65B	2	350
FSP	Spiral Casings	General Fabrication Facility. Exclusive Separate leveled platform for max.5 mtr x 5 mtr (apart from 2400 Sr.ft covered shed).	67A,68B,68C,130A	4	350
GATE A	GULLIOTINE Gates	General Fabrication Facility.	117K, 118D,118K, 118L.	4	350
GATE B	GULLIOTINE Gates	General Fabrication Facility.	117L,117M,119K	3	350
GEN	General Fabrication	General fabrication Facility	51A,51B,51C,51D,51E,51F,51G,51H,51J,51K,51L,51M,51P,51Q,51R, 52A, 53A, 53B, 53C,53H,53J, 54B, 54E, 54F, 54G, 54H, 56A, 57A, 57C, 57D, 57H,57J, 59A, 59B,59D, 59E, 59F, 59G,59H, 59J,59K,59L, 63A	43	350
IMP	Fan Impellers	General Fabrication Facility. Vertical Turning Lathe - Min.1 No.	106C,106D,106E,106F,106G,106H,106J,111A,112A,112B,112C,113A,114A,114B,114C,131A,131B,131C,132A,132B,132C,143A,143B,166A,167A,168A,	26	450
PUN	Punching Process	General Fabrication Facility. Shearing Machine capacity 6 mm thick and above. Hydraulic/Power press for Punching operation	54D,59C,71A,72A,73A,74A,107A,107B,108A,109A,109B,160A	12	350
SEAL	Haste Alloy Seals	General Fabrication Facility. Punching machine to punch 0.1 mm hast alloy/SS sheets. ER spot welding machine	161A,163A,164A,164B,165A	5	350
SSCT	Stainless Steel Corner Tube Segment	General Fabrication Facility. Shearing Machine to shear 6mm SS plates or plasma cutting. Press Brake for pressing 6mm SS plate.	52S	1	350
TAPH	Tubular Air Heater	General Fabrication Facility. Radial drilling machine capacity to drill dia 50 mm and above. Motorised tube expanding facility	75A	1	350
TINY	Light fabrication	General Fabrication facility	52B,52C,52D, 52E 53D, 53F, 53G,53K,53M,54C,56C,56D,56E, 56F,56G,64A,65C,102B, 102C, 102D,102F,103A	22	40
TUB	Tube Bending	General Fabrication facility, Tube bending machine upto dia 76.1 mm x 4.5 mm thick	181A,181B,181C,181D	4	350
WWS	Water Washing System	General Fabrication Facility. lathe, Hydraulic testing unit	62A	1	350
EXTRA	EXTRA rate schedules		Refer Section III E	75	450

Section - III D

Enq .No:- 652001E

Dt 09-09-2022

Total Extra Rate Schedule List (RS wise) under Group EXTRA for OS(MAIN) ARC 2022-23

SI No	RS Group	RS No	RS Description	UNIT
1	EXTRA	E01	CONVERSION CHARGES FOR FLAT OUT OF PLATES .	MT
2	EXTRA	E03	MAGNETIC PARTICLE INSPECTION/TESTING [MPI].	MR
3	EXTRA	E04	RADIOGRAPHY [RT]	MR
4	EXTRA	E07X	DEDUCTION OF TRANSPORT CHAGES FOR DTS 0 TO 100 KMS	MT
5	EXTRA	E07Y	DEDUCTION OF TRANSPORT CHAGES FOR DTS 101 TO 350 KMS	MT
6	EXTRA	E07Z	DEDUCTION OF TRANSPORT CHAGES FOR DTS 351 TO 450	MT
7	EXTRA	E11	25 MIC OF EPOXYZINC RICH PRIMER [EXCEPT WM XXX]	SM
8	EXTRA	E14	40 MIC OF WHITE ENAMEL PAINT TO IS2932	SM
9	EXTRA	E16	25 MIC OF HEAT RESISTANT BLACK BITUMINOUS PAINT TO IS-158	SM
10	EXTRA	E17A	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED WITH IN 60 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/BLAST CLEANING / BALANCING / HEATTREATMENT / OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY.	MT
11	EXTRA	E17B	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED BETWEEN 61 KMS AND 160 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/BLAST CLEANING /BALANCING/HEATTREATMENT/ OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY	MT
12	EXTRA	E17C	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED BETWEEN 161 KMS AND 350 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/ BLAST CLEANING/ BALANCING/ HEATTREATMENT/ OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY	MT
13	EXTRA	E18	40 MIC OF HIGH BUILD CHLORINATED RUBBER ZINCPHOSPHATE PRIMER.	SM
14	EXTRA	E19	5 MIC OF ETCH PRIMER/WASH PRIMER	SM
15	EXTRA	E20	20 MIC OF SYNTHETIC ENAMEL LONG OIL ALKYD TOIS-2932 [SMOKE GREY AND OTHER SHADES]	SM
16	EXTRA	E23	25 MIC RUST PREVENTIVE OIL	SM
17	EXTRA	E24	20 MIC BLACK ENAMEL PAINT TO IS - 2932	SM
18	EXTRA	E27	50 MIC HIGH BUILD EPOXY PAINT TO IS14209 DARK GREY AND OTHER SHADES	SM
19	EXTRA	E28	40 MIC EPOXY FINISH PAINT LIGHT GREY AND OTHER SHADES	SM
20	EXTRA	E29	75 MIC INORGANIC ZINC SILICATE PRIMER TO IS14946	SM
21	EXTRA	E30	30 MIC CHLOROKOTE ZINC PHOSPHATE TO IS 8632.	SM
22	EXTRA	E40	TRIAL ASSY OF TOTAL INLET/OUTLET FUNNEL ASSY[PYRAMID SHAPE] COLUMNS, LONGITUDINAL ROOF BEAMS, TRUSSES (X55), SPIRALCASINGS, TURBINE HALL STRUCTURES, DUCTS ,SILENCERS (ASSEMBLED FROM MULTIPLE BLOCKS), BRACKETS IN X25, SUCTION HOOD OF FANS AND ROOF ASSEMBLY OF FANS ETC.	MT
23	EXTRA	E41	RECOVERY RATE FOR CS/AS, ASBESTOS , WOOL , CAF SCRAP ETC.	MT
24	EXTRA	E42	BIG SIZE SCRAP [CS/AS SHEETS/ PLATES]	MT
25	EXTRA	E43	RECOVERY RATE FOR STAINLESS STEEL [NON-MAGNETIC], NON-FERROUS METAL SCRAP.	MT
26	EXTRA	E51	HR ALUMINIUM PAINT [20 MIC] [UP TO 200 DEGREE C] IS 13183 / 1991 GRADE - III	SM
27	EXTRA	E52	HR ALUMINIUM PAINT [20 MIC] [ABOVE 200 DEGREE C] IS 13183 / 1991 GRADE - II	SM
28	EXTRA	E54	HR CHIMNEY BLACK PAINT [>250 DEGREE C] / FERROTOL BLACK CHIMNEY [50 MIC]	SM
29	EXTRA	E55	EPOXY HB MIO TO IS14209 INTERCOAT [125 MIC]	SM
30	EXTRA	E56	ALIPHATIC PU FINISH TO IS13213 OR EQVT. [75 MIC]	SM
31	EXTRA	E57	CHLORINATED RUBBER FINISH PAINT DARK GREY [40 MIC]	SM
32	EXTRA	E59	ETHYL ZINC SILICATE/ZINC DUST ETHYL SILICATE[75 MIC]	SM
33	EXTRA	E60	HB EPOXY ZINC RICH PRIMER [50 MIC]	SM

Section - III D

Enq .No:- 652001E

Dt 09-09-2022

Total Extra Rate Schedule List (RS wise) under Group EXTRA for OS(MAIN) ARC 2022-23

SI No	RS Group	RS No	RS Description	UNIT
34	EXTRA	E61	CHLORINATED RUBBER BASED TITANIUM OXIDE PIGMENTED INTERMEDIATE PAINT [WHITE] - [50 MIC]	SM
35	EXTRA	E62	EPOXY RESIN BASED TWO PACK, TITANIUM OXIDE PIGMENTED INTER- MEDIATE PAINT [WHITE] -[100 MIC]	SM
36	EXTRA	E63	ZINC CHROME PRIMER IS104 40 MICRONS	SM
37	EXTRA	E64	RED OXIDE ZINC PHOSPHATE PRIMER 80 MICRONS	SM
38	EXTRA	E65	UT OF WELD,BUTT JOINTS OR FILLET WELDS OF COLUMN BASE [ALL WELDS] THICKNESS 12 TO 32MM ASPER AWS D.1.1	MR
39	EXTRA	E68	LABOUR COST FOR ONE COAT OF PAINTING. [PAINT- BHEL SUPPLY].	SM
40	EXTRA	E69	SYNTHETIC ENAMEL TO IS 2932 GREY SHADE RAL 9002 [20 MICRONS].	SM
41	EXTRA	E71	ULTRASONIC TESTING [UT] OF PLATES / STRUCTURALS	SM
42	EXTRA	E72	CONVERSION CHARGES FOR EXPORT PACKING [FOR FINISHED COMPONENT WEIGHT [DU WEIGHT]	MT
43	EXTRA	E73	RECOVERY RATE FOR STAINLESS STEEL [MAGNETIC] SCRAP	MT
44	EXTRA	E76	CONVERSION CHARGES FOR STRUCTURALS TO STRUCTURALS	MT
45	EXTRA	E77	JOINTS OF CS/ HIGH TENSILE PLATES UPTO 4 MM/RM	MR
46	EXTRA	E78	JOINTS OF CS/HIGH TENSILE PLATES 5MM TO 10 MM/RM	MR
47	EXTRA	E79	JOINTS OF PLATES 12 TO 20 MM /RM	MR
48	EXTRA	E80	JOINTS OF BEAM/CHANNEL UPTO 200 MM /JT.	NO
49	EXTRA	E81	JOINTS OF BEAM/CHANNEL 201MM - 300 MM /JT.	NO
50	EXTRA	E82	JOINTS OF BEAM/CHANNEL 301- 450 MM /JT.	NO
51	EXTRA	E83	JOINTS OF ANGLES UPTO 75X75X8	NO
52	EXTRA	E84	JOINTS OF ANGLES ABOVE 75X75X8 UPTO 100X100X12	NO
53	EXTRA	E85	JOINTS OF ANGLES ABOVE 100X100X12	NO
54	EXTRA	E86	JOINTS IN BEAM /CHANNEL ABOVE 450 MM	NO
55	EXTRA	E87	ADDITIONA JOINTS FOR PLATES 21-25 MM/RM	MR
56	EXTRA	E88	ADDITIONAL JOINTS FOR PLATES 26-32MM/RM	MR
57	EXTRA	E89	ADDITIONAL JOINTS FOR PLATES 33-36 MM /RM	MR
58	EXTRA	E90	ADDITIONAL JOINTS FOR PLATES 37-40 MM/RM	MR
59	EXTRA	E91	ADDITIONAL JOINTS FOR PLATES 41 - 50 MM /RM	MR
60	EXTRA	E92	ADDITIONAL JOINTS FOR PLATES 51-56 MM /RM	MR
61	EXTRA	E93	ADDITIONAL JOINTS FOR PLATES 57 MM AND ABOVE/RM	MR
62	EXTRA	E94	CHLORINATED RUBBER FINISH PAINT (RAL)- 40 MICRONS	SM
63	EXTRA	E95	TESTING CHARGES OF GATE/DAMPER ASSEMBLY ELECTRICALLY / PNEUMATICALLY OPERATED UPTO 7 MT	NO
64	EXTRA	E96	TESTING CHARGES OF GATE / DAMPER ASSY ELECTRICALLY / PNEUMATICALLY OPERATED ABOVE 7 AND UPTO 10 MT.	NO
65	EXTRA	E97	TESTING CHARGES OF GATE ASY ELECTRICALLY OPERATED ABOVE 10 MT.	NO
66	EXTRA	E98	EXTRA CHARGES PAYABLE FOR FIXING OF BULB SEALS (BULB SEALS ISSUED AS FREE BY BHEL)	MT
67	EXTRA	E99	JOINTS OF Stainless Steel PLATES UPTO 4 MM/RM	MR
68	EXTRA	E100	JOINTS OF Stainless Steel PLATES 5 mm TO 10 MM/RM	MR
69	EXTRA	E102	PAINTING - ZINC PHOSPHATE PRIMER - GREY SHADE 40 MICRONS	SM
70	EXTRA	E103	% for full CORTEN - A material fabrication - all Rate schedules in GEN, CHIM A, B and C	%
71	EXTRA	E104	TITANIUM DUCT WELDING	MR
72	EXTRA	E105	EPOXY GLASS FLAKE PAINT TO 125 MIC	SM
73	EXTRA	E106	HIGH BUILD CHLORINATED RUBBER BASED INTERMEDIATE PAINT 60MIC	SM
74	EXTRA	E107	COMMERICAL BLASTING TO SA2	SM
75	EXTRA	E108	HEAT RESISTANCE ALUMINIUM PAINT (Gr -I) 400-600°C TO IS 13183 20MIC	SM

Section - III E

Enquiry No.652001E

Dt.09-09-2022

Total Extra Rate Schedule List (Operation wise with Group Eligibility to Quote) under Group EXTRA for ARC 2022-23

SL.NO.	RS No	DESCRIPTION	Unit	Eligible RS-GROUP to quote
CHARGES FOR ADDITIONAL JOINTS IN PLATES AND STRUCTURALS				
1	E77	Joints Of Cs/ High Tensile Plates Thickness Upto 4 MM/RM	MR	GEN
2	E78	Joints Of Cs/High Tensile Plates Thickness 5MM To 10 MM/RM	MR	GEN,DAMP,GATEA,GATEB
3	E79	Joints Of Plates Thickness 12 To 20 MM/RM	MR	AUTO,CHIMA,CHIMB,CHIMC,GEN,DAMP,GATEA,GATEB
4	E80	Joints Of Beam/Channel Upto 200 MM /JT.	NO	GEN,TINY
5	E81	Joints Of Beam/Channel 201 MM - 300 MM /JT.	NO	GEN,TINY
6	E82	Joints Of Beam/Channel 301 MM - 450 MM /JT.	NO	GEN.
7	E83	Joints Of Angles Upto 75X75X8	NO	GEN,TINY
8	E84	Joints Of Angles Above 75X75X8 Upto 100X100X12	NO	GEN,TINY
9	E85	Joints Of Angles Above 100X100X12	NO	GEN
10	E86	Joints In Beam /Channel Above 450 MM	NO	GEN
11	E99	Joints Of SS Sheets Thickness upto 4 MM/RM	MR	GEN,SSCT
12	E100	Joints Of SS Plate Thickness 5 to 10 MM/RM	MR	SSCT
13	E87	Additional Joints For Plates Thickness 21-25 MM/RM	MR	AUTO,CHIMA,CHIMB,CHIMC,GEN,DAMP,GATEA,GATEB
14	E88	Additional Joints For Plates Thickness 26-32MM/RM	MR	CHIMA,CHIMB,CHIMC,GEN
15	E89	Additional Joints For Plates Thickness 33-36 MM/RM	MR	CHIMA,CHIMB,CHIMC,GEN
16	E90	Additional Joints For Plates Thickness 37-40 MM/RM	MR	CHIMA,CHIMB,CHIMC,GEN
17	E91	Additional Joints For Plates Thickness 41-50 MM/RM	MR	CHIMA,CHIMB,CHIMC,GEN
18	E92	Additional Joints For Plates Thickness 51-56 MM/RM	MR	GEN
19	E93	Additional Joints For Plates Thickness 57 MM And Above/RM	MR	GEN
CHARGES FOR CONVERSION				
20	E01	Conversion Charges For Flat Out Of Plates .	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, PUN, SEAL, TAPH, TINY, TUB, WWS
21	E72	Conversion Charges For Export Packing [For Finished Component Weight [Du Weight]]	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, PUN, SEAL, TAPH, TINY, TUB, WWS
22	E76	Conversion Charges For Structural To Structural	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, PUN, SEAL, TAPH, TINY, TUB, WWS
23	E103	% for full CORTEN - A material fabrication - all Rate schedules in GEN, CHIM A, B and C	%	CHIMA,CHIMB,CHIMC,GEN
24	E104	TITANIUM DUCT WELDING	MR	Gen
CHARGES FOR PAINTING				
25	E11	25 Mic Of Epoxyzinc Rich Primer [Except Wm Xxx]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS
26	E14	40 MIC OF WHITE ENAMEL PAINT TO IS2932	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS
27	E16	25 Mic Of Heat Resistant Black Bituminous Paint To Is-158	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS
28	E18	40 Mic Of High Build Chlorinated Rubber Zincphosphate Primer.	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS
29	E19	5 Mic Of Etch Primer/Wash Primer	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS

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Total Extra Rate Schedule List (Operation wise with Group Eligibility to Quote) under Group EXTRA for ARC 2022-23					
SL.NO.	RS No	DESCRIPTION	Unit	Eligible RS-GROUP to quote	
30	E20	20 Mic Of Synthetic Enamel Long Oil Alkyd Tois-2932 [Smoke Grey] and other shades	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS	
31	E23	25 Mic Rust Preventive Oil.	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
32	E24	20 Mic Black Enamel Paint To Is - 2932	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
33	E27	50 MIC HIGH BUILD EPOXY PAINT TO IS14209 DARK GREY AND OTHER SHADES	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
34	E28	40 MIC EPOXY FINISH PAINT LIGHT GREY AND OTHER SHADES	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
35	E29	75 MIC INORGANIC ZINC SILICATE PRIMER TO IS14946	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
36	E30	30 Mic Chlorokote Zinc Phosphate To Is 8632	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
37	E51	Hr Aluminium Paint [20 Mic] [Up To 200 Degreec] Is 13183 / 1991 Grade - Iii	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
38	E52	Hr Aluminium Paint [20 Mic] [Above 200 Degreec] C]Is 13183 / 1991 Grade - II	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
39	E54	Hr CHIMA,CHIMB,CHINCney Black Paint [>250 Degree C] / Ferrotol Black CHIMA,CHIMB,CHINCney [50 Mic]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
40	E55	EPOXY HB MIO TO IS14209 INTERCOAT [125 MIC]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
41	E56	ALIPHATIC PU FINISH TO IS13213 OR EQVT. [75 MIC]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
42	E57	Chlorinated Rubber Finish Paint Dark Grey [40 Mic]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
43	E59	Ethyl Zinc Silicate/Zinc Dust Ethyl Silicate[75 Mic]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
44	E60	Hb Epoxy Zinc Rich Primer [50 Mic]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
45	E61	Chlorinated Rubber Based Titanium Oxide Pigmented Intermediate Paint [White] - [50 Mic]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, , IMP, , TAPH, TINY, TUB, WWS	
46	E62	Epoxy Resin Based Two Pack, Titanium Oxidepigmented Inter-Mediate Paint [White] -[100 Mic]	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
47	E63	Zinc Chrome Primer Is104 40 Microns	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	
48	E64	Red Oxide Zinc Phosphate Primer 80 Microns	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS,	
49	E68	Labour Cost For One Coat Of Painting. [Paint- Bhel Supply].	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS	

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Total Extra Rate Schedule List (Operation wise with Group Eligibility to Quote) under Group EXTRA for ARC 2022-23				
SL.NO.	RS No	DESCRIPTION	Unit	Eligible RS-GROUP to quote
50	E69	Synthetic Enamel To Is 2932 Grey Shade Ral 9002 [20 Microns].	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS
51	E94	CHLORINATED RUBBER FINISH PAINT (RAL)- 40 MICRONS	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, , TAPH, TINY, TUB, WWS
52	E102	PAINTING - ZINC PHOSPHATE PRIMER - GREY SHADE 40 MICRONS	SM	APHP,AUTO,CHIMA,CHIMB,CHIMC,GEN,DAMP,EXP ,FSP,GATEA,GATEB,GEN,GEN,IMP,PUN,RET,SEAL,SC,TAPH,TINY,TUB,WWS
53	E105	EPOXY GLASS FLAKE PAINT TO 125 MIC	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS,
54	E106	HIGH BUILD CHLORINATED RUBBER BASED INTERMEDIATE PAINT 60MIC	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS,
55	E107	COMMERICAL BLASTING TO SA2	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS,
56	E108	HEAT RESISTANCE ALUMINIUM PAINT (Gr -I) 400-600°C TO IS 13183 20MIC	SM	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, , TAPH, TINY, TUB, WWS,
RECOVERY RATES FOR SCRAP				
57	E41	Recovery Rate For Cs/As, Asbestos , Wool , Caf Scrap Etc.	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, TAPH, TINY, TUB, WWS
58	E42	Big Size Scrap [Cs/As Sheets/ Plates]	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, RET, TAPH, TINY, TUB, WWS
59	E43	Recovery Rate For Stainless Steel [Nonmagnetic], Non-Ferrous Metal Scrap.	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, TAPH, TINY, TUB, WWS
60	E73	Recovery Rate For Stainless Steel [Magnetic] Scrap	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, SEAL, TAPH, TINY, TUB, WWS
CHARGES FOR TRIAL ASSY AND ASY OF FIXING BULB SEALS				
61	E40	Trial Assy Of Total Inlet/Outlet Funnel Assy[Pyramid Shape] Columns, Longitudinal Roof Beams, Trusses (X55), Spiralcasings, Turbine Hall Structures, DuGEN ,Silencers (Assembled From Multiple Blocks), Brackets In X25, Suction Hood Of Fans And Roof Assembly Of Fans Etc.	MT	GEN,
62	E98	EXTRA CHARGES PAYABLE FOR FIXING OF BULB SEALS (BULB SEALS ISSUED AS FREE BY BHEL)	MT	GATEA, GATEB
CHARGES FOR TESTING				
63	E03	Magnetic Particle Inspection/Testing [MPI].	MR	APHP, AUTO, CHIMA,CHIMB,CHIMC, EXP, FSP, DAMP,GATEA,GATEB, GEN,GEN, IMP, TAPH, TINY, WWS
64	E04	Radiography [RT]	MR	AUTO, CHIMA,CHIMB,CHIMC, FSP, DAMP,GATEA,GATEB, GEN,GEN, IMP, TAPH
65	E65	Ut Of Weld,Butt Joints Or Fillet Welds Of Columbase [All Welds] Thickness 12 To 32MM Asper Aws D.1.1	MR	AUTO, CHIMA,CHIMB,CHIMC, FSP, DAMP,GATEA,GATEB, GEN,GEN, IMP, TAPH
66	E71	Ultrasonic Testing [Ut] Of Plates / Structural	SM	AUTO,CHIMA,CHIMB,CHIMC,FSP,DAMP,GATEA,GATEB,GEN,GEN,IMP, TAPH
67	E95	TESTING CHARGES OF GATE/DAMPER ASSEMBLY ELECTRICALLY / PNEUMATICALLY OPERATED UPTO 7 MT	NO	DAMP,GATEA,GATEB
68	E96	TESTING CHARGES OF GATE / DAMPER ASSY ELECTRICALLY / PNEUMATICALLY OPERATED ABOVE 7 AND UPTO 10 MT.	NO	DAMP,GATEA,GATEB

Total Extra Rate Schedule List (Operation wise with Group Eligibility to Quote) under Group EXTRA for ARC 2022-23				
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SL.NO.	RS No	DESCRIPTION	Unit	Eligible RS-GROUP to quote
69	E97	Testing Charges Of Gate Assembly Electrically Operated Above 10 Mt.	NO	DAMP,GATEA,GATEB
CHARGES FOR TRANSPORTATION FOR INTERMEDIATE OPERATION AND DTS				
70	E17A	Transport charges for To and Fro Movement of semi-finished components from YOUR WORKS to the WORKS OF CONTRACTOR situated WITH IN 60 Kms from YOUR WORKS doing the intermittent operation such as Galvanizing/ cleaning/Balancing/Heat-treatment/other specific operation as per Enquiry	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, PUN, SEAL, TAPH, TINY, TUB
71	E17B	Transport charges for To and Fro Movement of semi-finished components from YOUR WORKS to the WORKS OF CONTRACTOR situated between 61 Kms and 160 Kms from YOUR WORKS doing the intermittent operation such as Galvanizing/ cleaning/Balancing/Heat-treatment/other specific operation as per Enquiry	MT	APHP, AUTO, CHIMA,CHIMB,CHIMC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, PUN, SEAL, TAPH, TINY, TUB
72	E17C	Transport charges for To and Fro Movement of semi-finished components from YOUR WORKS to the WORKS OF CONTRACTOR situated between 161 Kms and 350 Kms from YOUR WORKS doing the intermittent operation such as Galvanizing/ cleaning/Balancing/Heat-treatment/other specific operation as per Enquiry	MT	APHP, AUTO, CHIMA,CHIMB,CHINC, GEN, EXP, FSP, DAMP,GATEA,GATEB, IMP, PUN, SEAL, TAPH, TINY, TUB
73	E07X	DEDUCTION OF TRANSPORT CHARGES FOR DTS 0 TO 100 KMS	MT	APHP, AUTO, ,,CHIMA, CHIMB, CHIMC, GEN, EXP, FSP, DAMP, GATEA, GATEB, IMP, PUN, RET, SEAL, SSCT, TAPH, TINY, TUB, WWS
74	E07Y	DEDUCTION OF TRANSPORT CHARGES FOR DTS 101 TO 350 KMS	MT	APHP, AUTO, ,,CHIMA, CHIMB, CHIMC, GEN, EXP, FSP, DAMP, GATEA, GATEB, IMP, PUN, RET, SEAL, SSCT, TAPH, TINY, TUB, WWS
75	E07Z	DEDUCTION OF TRANSPORT CHARGES FOR DTS 351 TO 450	MT	APHP, AUTO, ,,CHIMA, CHIMB, CHIMC, GEN, EXP, FSP, DAMP, GATEA, GATEB, IMP, PUN, RET, SEAL, SSCT, TAPH, TINY, TUB, WWS

Note: Extra RS E08 will be operated with the rates finalised under RS 185A since the operation is same for both RS. Recovery of T&B Extra RS E44, E45, E46 will be operated as finalised in LDPP Contrat and the same will be applicable for OS (MAIN) ARC 2022-23



Enquiry Number: **652001E**

Dt.09-09-2022

SECTION IV

GENERAL TERMS & CONDITIONS OF THE TENDER OS (MAIN) ARC 2022-23

Before preparing the offer, vendors are requested to go through the following details carefully

A] Vendor Classification

Vendors to this tender are broadly classified as "TINY" and " MAIN".

Vendor shall participate in this tender Either under TINY or MAIN category alone and not for both. For other Groups based on the Eligibility Criteria, Vendors can quote.

i) TINY Vendor

Vendors who are having manufacturing facilities for fabrication/machining under RS Group "TINY" with atleast **0.3 Acres** of Land and located within the radius of 40 KM from BHEL, Ranipet.

ii) MAIN Vendor

- Vendors who are having manufacturing facilities for fabrication/machining (other than RS Group "TINY") with **0.9 Acres** of Land and located within the radius of 350 KM from BHEL, Ranipet.
- For RS Group under "IMP", the distance restriction is relaxed up to 450 KM.

Vendor shall participate in this tender either under TINY or under MAIN category and not for both.

All the vendors (TINY & MAIN) quoting for the respective Rate Schedules Groups are eligible to quote for respective Extra Rate Schedules listed under EXTRA - category Rate Schedules given in Section IIID.

B] Eligibility of Vendors to Quote:

Firms who are having sufficient manufacturing facilities, all mandatory requirements to be required for a registered industry and experience in manufacturing of similar Fabrication / Machining of jobs for Boiler Auxiliaries components like APH (Air-Pre Heater), ESP (Electrostatic Precipitators), FANs(Industrial Fans), G&D (Gates and Dampers), FGD (Flue Gas Desulphurization) and able to meet Eligibility Criteria (Facility Requirement) mentioned against each Group of Rate Schedules can quote for this tender..

The date of commencement of activity appeared in the Firm Registration (MSME/SSI) certificate will be reckoned for calculating the age of the firm.

Firms already registered with Outsourcing (OS) BHEL/BAP/Ranipet shall indicate vendor code in their offer and indicate PO/IP number for the RS quoted if available. If vendor is new, then mention as "New" in the space provided for Vendor Code.

Vendors registered with any unit of BHEL for the similar jobs, shall give details of their registration along with the category registered for.

In order to increase the competition and mitigate the possibility of suspected cartel formation, other than the bidder, business entities owned by same proprietor/Common partner(s)/Common Directors of different firms should not participate in the same (this) enquiry. A declaration in this regard will be provided by bidder on their letterhead. If during the evaluation of the bids, it is found that the bidder has submitted the offer in violation of these condition then all the offers received under the same management /control would stand rejected. If such relationship is found at a later date where the Purchase Order has been issued, then BHEL would cancel the Purchase Order and initiate suitable action/s as per extant policies/ guidelines.



iii) Evaluation Methodology For Eligibility Criteria :

- a. The Techno Commercial bids submitted by the firm will be scrutinized. The eligibility of the firms will be verified based on the pre-qualification criteria of the tender and compliance / confirmation to the tender requirements for each Rate Schedules/ Group of Rate Schedules by BHEL vendor evaluation team including spot verification if necessary for approval. Only those firms complying with the pre-qualification criteria shall be considered for participation in the tender.
- b. Once the vendor is found to be technically suitable meeting all the technical and commercial requirements of BHEL, price bid of those qualified vendors for respective category only will be considered for further processing.
- c. New vendor shall submit **Filled-in Vendor Registration form as in Annexure-K**

Note:

(i) The facilities indicated in the RS/RS Group should be available in working condition as on date at the time of submission of offer and to be made available for the whole contract period. Vendors shall not quote for the ranges-which are beyond their manufacturing capacity.

(ii) Firm Land shall be owned either by the partners/ proprietor or registered in the name of the firm. In case of Leased land, the lease agreement shall be registered in the name of either by the partners/ proprietor or registered in the name of the firm and valid for a minimum period of 3 years from the date of Tender Opening. Self attested Copy of Lease agreement / own land document to be enclosed along with the tender.

C] Vendors Not Eligible to Quote

Vendors declared / notified as defaulters / poor performers on quality / delivery grounds are not eligible to quote. The vendors with whom the material shortages were found during stock verification and not settled at the time of tender opening will not be considered. Offers if any received from such vendors shall not be considered.

Vendors under HOLD by BHEL are not eligible for such RS and vendor delisted/banned are not eligible for whole tender.

D] Distance Criteria for the New Firms

For TINY-category: vendors located within the radius of 40 KM for fabrication/machining.

For MAIN-category: vendors located (a) within 350 KM for all Rate Schedules and (b) For RS Group under "IMP", the distance restriction is relaxed up to 450 KM.

E] EMD (Earnest Money Deposit)

Non MSE Vendors has to submit EMD for Rs. 2.00 Lakh in the form of Demand Draft favouring "Bharat Heavy Electricals Ltd., Ranipet – 632 406" payable at Ranipet. (Original copy should reach BAP RANIPET before tender opening due date) **EMD is applicable for Medium category vendor also.**

(i) No interest shall be payable by BHEL on Earnest Money Deposit (EMD).

(ii) EMD will be forfeited if

- a) The Tenderer withdraws his Tender within the validity period,
- b) After becoming L1, if the firm does not sign the contract or not submitting the required base BG within the specified period, the EMD will be forfeited.

(iii) The EMD submitted by the vendors will be returned within a month from the date of signing the contract.



F] Validity of Offer

Price validity shall be One Year from the date of finalisation of Annual Rate Contract; however the validity date of the offer is 180 days from the date of tender opening for ordering. (Note: If Supplier does not honour his own offer or any of its conditions within the validity period, penal action deemed fit as per Cl."S" of Section IV - Suspension of Business Dealings with vendors).

G] Submission of Offer

TENDERS

An electronic bids shall be submitted in three parts namely (i) Earnest Money Deposit (EMD) fee Cover/ Micro Small Enterprises (MSE) - **Udyam Registration Certificate** (URC) (ii) Techno Commercial Bid Cover and (iii) Price bid cover.

The details of contents of the offer covers are as under:-

Cover I: EMD / MSME Requirements

- a) **Check list for Cover-I**
- b) **Earnest Money Deposit (EMD) Rs. 2.00 lakh** in the form of Demand Draft, as called for (for Non MSE supplier), (OR)
- c) **MSME documents** to avail exemption from submission of EMD: –
 - i) Copy of Udyam Registration Certificate

Date to be reckoned for determining the deemed validity will be the date of Tender opening. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.

Cover II: Qualifying Criteria, Techno-Commercial Bid

- a) **Check list for Cover-II (Annexure-B)**
- b) **Signed in Standard Commercial Terms & Conditions format** given as **Annexure-E.**,
- c) **Signed in Technical Bid** for each Group quoted in this tender (without Price) as per **Annexure-C.**
- d) **Signed in Technical Bid** for Extra Rate Schedule as per **Annexure-CE**
- e) **Affidavit** in Stamp Paper value Rs.100 as per **Annexure-I**
- f) **Own land - Document copy / Lease Land – Self attested Copy of Registered Lease Agreement and Encumbrance Certificate** covering past 20 years for Own/Lease land.
- g) **Declaration letter on firm's letter head** as per **Annexure G**
- h) **Integrity Pact** as per **Annexure-H**
- i) **Documents to be enclosed for Partnership Firm –Self Attested Copies**
 - i) Latest Form- A, issued after 01.04.2022.
 - ii) Partnership Deed Copy (AT WILL).
- j) **Documents to be enclosed for Limited Firm (Private Firm) – Self Attested Copies**
 - i) Latest resolution by Board of Directors.
 - ii) Memorandum of Article of Association.
 - iii) Company's Affidavit for existence



- iv) Latest Annual Report.
- v) Directors Share details
- k) **Vendor Registration Form** given as **Annexure-K** along with all necessary documents (**For New Vendor**)
- l) **Eligibility Criteria format** given in **Annexure-FM/FT/FS**

Note:

- (i) All new firms shall submit vendor registration forms (**Annexure-K**) along with supporting documents. Price bids of firms failing to meet the Technical Qualification / Eligibility Criteria of the quoted Rate Schedules shall not be considered for further processing in the tender.
- (ii) Rates shall not be indicated anywhere in the Technical Bid.
- (iii) All Annexure to the Techno-Commercial bid should be serially numbered.
- (iv) Tenders not submitted in the prescribed formats given in the Annexures like *Standard Commercial Terms & Conditions, Technical Bid*, etc. and *incomplete offers* are liable for rejection.

Cover-III : Price Bid

Price Bid - Price duly filled-in the Price Bid in excel format provided in the tender document as **Annexure-D** (BOQ) for each Rate Schedule / Rate Schedule Group in conformance with the commercial terms as per Cover-II and **Annexure-DE** for Extra Rate Schedule. **Vendor has to quote for all the Rate Schedules available in the Group selected, else their offer will not be considered for the respective Group of Rate Schedules. Price bid should be submitted in Excel format in E tender portal only.**

The Prices shall be indicated in figure. Unit rate only to be mentioned in the price bid.

Any Rates indicated other than in Price Bid Annexure D (BOQ) shall not be considered.

Note:

- i) The price should be on "FOR BHEL, Ranipet" basis only (Inclusive of packing, forwarding and freight charges). No other delivery terms shall be acceptable.
- ii) While quoting their rates, the Bidders are advised to take into account the likely expenditure, escalations, statutory requirements & levies, labour laws, safety requirements, taxes, etc during the operation of Rate Contract for one year from the date of award of Contract. No price escalation/variations shall be entertained during the ARC period on any account. The rates are operative for placement of orders for **ONE YEAR** on Rate Contract basis to be entered into between BHEL and the Contractor.
- iii) Tenderer shall bear all cost incidentals to preparation, submission and negotiations of the tender.
- iv) If BHEL withdraws the Tender before or after the receipt of offers, whether the offer is accepted or not, tenderer shall not be entitled to claim any costs, charges, expenses incidental or incurred by him through or in connection with the submission of the offer.
- v) In case, there is a discrepancy in the term quoted in techno-commercial bid and price bid, the term as per the techno-commercial bid (Cover II) shall hold good and the commercial term quoted in the Price Bid (Cover III) shall not be considered.
- vi) In their own interest, all Tenderers are advised to double check their prices before submitting the offer.
- vii) The quotation should be valid at least for a period of 180 days from the tender opening date.
- viii) Offers should be submitted e tender portal only.



ix) The offers should invariably contain Signature (ink-signed) & Office Stamp of the Supplier. Any corrections / erasures in the offers should be initialled and stamped.

x) Bidders should submit the prices in Indian Rupees only.

HJ Persons Authorized for Signing the Offers:

The Tender documents shall be signed by the Authorized Signatory Only.

i) Proprietary Firm: In case of Single Ownership / Proprietorship establishment, the Tender shall be signed by the Owner / Proprietor Only.

ii) Partnership Firm: In case the Bidder is a Partnership Firm under Partnership Act, the Tender shall be signed by all the Partners of the firm or by the Managing Partner who have Signature and Seal of the Firm authorized to do so **OR** by a person holding the Power of Attorney on behalf of the Partnership Firm. Power of Attorney attested by a **Public Notary** shall accompany the Techno-Commercial-Bid. Power of Attorney shall be submitted as per format given as **Annexure J** only.

iii) Private Firm: Authorized signatory shall be the person holding "Power of Attorney" on behalf of the firm/company/Bidder-concerned and authorized/empowered by MD or Board of Directors or owner of the firm, to act on behalf of the firm for quoting this Tender and all proceedings connected with, till finalization and execution of the Contract. Power of Attorney attested by a **Public Notary** shall accompany the Techno-Commercial-Bid.

iv) This tender is being floated through E Procurement Portal. Submissions of requisite documents for tender are being submitted by the Authorized Signatory of the Firm.

v) For participating in the e-tender, Digital Signature Certificate Class III is mandatory for the subcontractor to quote.

vi) Subcontractors should quote the rate and fill other required details only in the respective fields provided.

vii) The offer should be submitted on or before the due date & time mentioned in the Procurement portal. Further tender due date extension, if any, will be communicated through E-procurement portal only. Hard copy bid or bids through E-mail / fax shall not be accepted.

viii) Subcontractor should take utmost care for the use of their Digital Key registered while participating in a Tender.

ix) Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Revisions, etc. to Tender Specifications will be hosted in E Procurement portal or B2B portal.

IJ Opening of Offers

a) Tenders (Offers) shall be received up to 10.00 Hours (A.M) on the said due date and be opened on the same day at 14.00 Hours (P.M).

b) It is bidder's responsibility to ensure that the Tenders are submitted before the specified date and time. BHEL shall not be responsible for any postal delay.

c) Vacant.

d) First Cover I containing EMD / MSME documents shall be opened, only if EMD as mentioned above **OR** the valid MSME certificate is available, the respective Cover II - Techno Commercial bid will be opened subsequently.

e) Price bids – Cover III of Technically qualified bidders alone shall be opened on a later date. The date / time of Price Bid opening will be communicated to the technically qualified Bidders separately.

Note



(i) Bids including all enclosures and supporting documents like catalogues, pamphlets, etc., shall be provided in ENGLISH language only.

(ii) Offers sent by e-mail / fax or any other mode other than the three cover system specified above shall be avoided.

(iii) At its option, BHEL may consider extending the due date/s for the tender openings. Sufficient notice would be given by BHEL for such extensions.

J] Evaluation of Techno Commercial Offers

The Techno commercial bids submitted by the firm will be scrutinized. The eligibility of the firms will be verified based on the pre-qualification criteria of the tender and compliance / confirmation to the tender requirements for each Rate Schedules/ Group of Rate Schedules quoted. Only those firms complying with the pre-qualification criteria shall be considered for participation in the tender. Once the vendor is found to be technically suitable meeting all the technical and commercial requirements of BHEL, price bid of those qualified vendors for respective category only will be considered for further processing.

n) Offers of vendors not technically qualified will be rejected and the same will be communicated to the vendors with reasons.

o) No deviation or change from the Tender conditions will be allowed and BHEL reserves the right to reject such offers.

p) **Conditions for rejection of offers:**

Following is the list of situations which would lead to rejection of offer/s.

This list is not exhaustive but only indicative.

BHEL reserve the right to reject one or all offers without assigning any reason. The decision of BHEL will be final in this regard.

- 1. If the offer fails to meet the technical requirements/specifications of the tendered item/s.*
- 2. If the offer does not meet the commercial terms & conditions, such as but not limited to delivery period specified in the tender, Delivery terms, payment terms, Liquidated damages, Risk Purchase, cancellation clause etc., specified in the tender.*
- 3. If the bidder fails to respond to clarification sought, within a reasonable period. In case of doubts / lack of clarity on the technical and commercial offer of the bidder, BHEL will seek clarifications. Bidders are required to respond completely to such BHEL's queries within 3 working days unless otherwise agreed to in writing by BHEL for period beyond 3 days. If supplier fails to respond within 3 working days or maximum 2 working days on a reminder thereon, the offer of such bidders will be automatically dis-qualified in the tender without further recourse to informing the bidder.*

K] Evaluation of Price Bid

i) The rates quoted shall be evaluated RS wise on the basis of "**Total cost to BHEL**".

ii) In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L1- bidders .In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L1-bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

(a) to decide the H1-vendor for recovery rate schedules and (b) to decide H1-vendor for elimination of higher ranked vendors the following criteria will be followed.



The sub-ranking will be done in-the-order by providing lower ranking for vendors

- (1) Nearer to BHEL by location
- (2) Earlier date of commencement of activity as in MSME certificate
- (3) Having OWN land,
- (4) Earlier date of receipt of offer and /or
- (5) Draw of lots as a final measure (in presence of such vendors, who may like to be present).

iii) Tenderer contacted in this tender does not automatically qualify for consideration just because they are found to be the lowest in Tender. BHEL reserves the right to reject any offers without assigning any reasons. BHEL also reserves the right to negotiate or counter offer the rates to any of the parties at their discretion.

iv) If the L1 rate against any rate schedules are found not acceptable to BHEL, then the L1 firms may be called for negotiation before finalizing the rate.

v) BHEL has the right to refloat or short-close the Tender if L1 price is not the lowest acceptable price, or for other reasons.

vi) Elimination of Vendors:

- a) **20% of the bids with highest rates in the order of ranking (H1, H2, H3, etc) for each Rate Schedule will be eliminated from the tender (ie. 80% of the offers received, rounded to next higher number will be considered eligible). However elimination clause is not applicable for Extra Rate Schedules.**
- b) **If the number of response is 20 and below for any Rate Schedule, only H1 vendor will be eliminated.**
- c) **In case of single/ two qualified responses, no elimination will be done.**

vii) The rates shall be quoted only in the Price Bid format for the concerned Rate Schedule / Group of Rate Schedule attached, in figures.

viii) All bidders shall submit their offers by filling-in the format of the BHEL tender documents. Offers received in any other format are liable to be rejected. Offers are asked in BHEL's format for purpose of standardisation - to help in the offer evaluation.

ix) Offer with any pre-conditions (like conditional discounts) for price is liable for rejection.

x) BHEL reserves the right to reject without assigning any reasons other than already specified for such offers having deviations to BHEL Specifications, Standard Terms & Conditions at its discretion. The decision of BHEL in this regard shall be final.

xi) In case of any discrepancy between the description of the Rate Schedule or quantities, specifications, drawings and for other tender documents, the decision of BHEL in writing is final, binding and conclusive for the purpose of this contract.

xii) BHEL reserves the right to reject an offer due to unsatisfactory past performance during tender finalisation / execution of a contract at any of BHEL projects / units.

xiii) BHEL reserves the right to conduct negotiations on the "Price" and "Other Commercial Terms and Conditions" with the lowest ranked offeror and

xiv) If so required by BHEL, Supplier may have to share their cost data / costing sheet with BHEL.



xv) BHEL reserves the right to restrict the number of parties for award of contract for any or all the Rate Schedules and restrict the number of parties to be called for negotiation (if necessary) based on their competitive bidding, past performance etc.

xvi) Any vendor willing to quote for a rate Schedule identified under a specific group", are required to quote for ALL the rate Schedules identified under the said group". Their offer for any rate schedule 'group' is liable for rejection if they have not quoted for the entire rate schedule listed under the said Group". However, in the event of vendor become H1-H20 (Falls under elimination), the particular RS only will be eliminated.

L] Abnormally Low Offers

If the prices offered by L1 Bidders are found to be unrealistic, unworkable with respect to BHEL's estimate or prevailing market rates, BHEL will ask for justification also demand the break up cost element for such rates from the vendors with appropriate documentary evidence and if not submitted it will be construed that the vendor has offered the rates with an intention to sabotage BHEL Tender process/ tamper Tendering procedure, affecting the ARC process. In such cases, BHEL will have the discretion to reject the offer in line with BHEL procedures. Hence the bidders are advised to exercise abundant care in submitting a correct genuine offer.

M] Counter offer

i) Once the L1 rates for the rate schedules are finalized by BHEL, then the L1 rate shall be counter offered to the other technically qualified vendors for the quoted rate schedules for their acceptance.

ii) Counter offer applicable for all the Rate Schedules in the Group. Considering the maximum number of vendors required for every rate schedule, the counter offer accepted by the vendors for the full / partial rate schedules of the group shall be considered.

ii) Based on the acceptance of vendors for the Rate Schedules, rate contract will be entered with those vendors for the accepted rate schedules.

v) Counter offering will not be extended to top higher ranked (H1.etc.) eliminated vendors as per clause K(vi).

vi) If none of the vendors are accepting for the counter offer given by BHEL, then BHEL will place orders on the L1 ranked vendor for the tentative quantity mentioned against each RS subject to the capacity availability indicated by the vendor.

N] Placement of Orders and Loading

a) ARC Contract will be entered only with the vendors who respond to this ARC-Enquiry and only for the respective Rate Schedules quoted by them. New vendors who have not responded to this ARC-Tender-but registered/approved later, if any will be permitted in the next year ARC (provided they respond to the next-year ARC).

b) Annual Rate Contract would be signed by the vendors for the acceptable Rate Schedules by way of becoming L1 and accepting counter offer rates for the respective Rate Schedules with BHEL, Ranipet subject to the availability of requisite acceptable Bank Guarantee.

c) Tentative quantity likely to be ordered against each Rate Schedule is indicated in the Technical Bid. Tender quantity may increase/decrease during the rate contract period. BHEL does not guarantee any minimum load for any vendor.

d) The contract is to be signed in Rs.100/- stamp paper. Hence after getting a confirmation on signing of contract, vendor shall get a stamp-paper for a value of Rs. 100/- and submit to BHEL for contract preparation.



e) After finalization of tender, if the Contractor is awarded the Contract, Proprietor, Partners and Directors (as applicable) should physically present themselves and sign the contract in the presence of Head of OS Department with in the dates specified.

f) Orders would be placed as Addenda's on the Annual Rate Contract signed by the vendors.

g) *Lowest (L1) vendor will be given TWO (2) splits of load, when all other ranked vendors(other than L1) were given One(1) split , during every bulk loading cycle, subject to meeting all the basic requirements such as Tender ranking, Capacity availability, Availability of BG, Delivery & Quality Performance, Legal compliances, validity of lease document if applicable and Validity of constitution., required as per contract. In case the above said requirements are not complied, loading of two splits for L1 vendor and one split for other ranked vendor will not be considered for subsequent loading.*

h) If none of the vendors are accepting for the counter offer given by BHEL, then BHEL will place orders on the L1 ranked vendor for the tentative quantity mentioned against each RS subject to the capacity availability indicated by the vendor.

i) Vacant

j) Purchase orders will be issued after entering into Rate contract with the Contractors. Discrepancy in the PO's if any, has to be settled immediately then and there within 20 days from the date of release of PO.

O] Execution of the Order

a) Once the order is released, vendor can view the orders in B2B portal of BHEL, Ranipet. However vendor has to collect hard copies of the Engineering Drawings and relevant documents from BHEL through their authorised representative.

Based on the Rate contract, to be finalized, the Sub-Contractors shall accept and undertake all jobs awarded to them under various Rate Schedules allotted to them and execute them to the satisfaction of BHEL. Failure to comply with this requirement will be viewed seriously.

b) Vendor has to collect Raw materials / Components from BHEL stores / Shop to their works on clearance.

c) Vendor has to study the Drawings, Welding Procedure Specification (WPS), Standard Quality Plan (SQP), any Customer Hold Points (CHP), any stage inspection requirement etc. carefully before start of manufacture.

d) Vendor has to submit Cutting Plan (CP) for the collected Raw Materials within a week of collection and shall get approval from CP section before proceeding for manufacture.

e) During manufacturing, wherever stage inspection is required, vendor has to offer for inspection to BHEL QC / BHEL approved Inspection Agencies for clearance to proceed further.

f) All measuring Instruments to be calibrated as per standards at BHEL Metrology / any approved Labs on chargeable basis and manufacturing / inspection will be carried out with calibrated instruments only.

g) On completion of Job, final inspection is to be offered to BHEL QC / BHEL approved Inspection Agencies with relevant Dimensional Report (DR). After clearance from the above agencies, Inspection Report (IR) has to be obtained for the same.

h) Painting of one coat Red Oxide / applying of Rust Preventive oil on machined surfaces is to be made on the job.

i) Despatch the items to BHEL, Shipping / Stores along with Delivery Chelan (DC), Inspection Report (IR), and Dimensional Report (DR) each 6 copies and shall get Inward Entry on Delivery Chelan (DC) from the Gate In charge.



- j) On delivery, authorised representative of vendor shall follow Shipping / Stores to control the DC's/Stores Receipt Voucher(SRV).
- k) Intimation of controlled DC's/SRV will be mailed by Finance to vendors for submitting the Invoices.
- l) Vendors have to submit the invoice and relevant documents to finance in stipulated time for the release of payments.
- m) In case of new vendors, The Inspection report on **First-of-trial** of First-addendum-PO shall be submitted. Further loading of jobs will only be considered after the successful completion of the First-addendum-PO.
- n) The Contractors are responsible till the semi finished components are safely deposited with BHEL / Ranipet. They should carefully pack, Load, and stack as per QWIs, for avoiding damages during transit and lash the consignment properly at the time of dispatch so that the consignment reach the destination safely.

P] Risk Purchase

In case of delay in delivery beyond PO delivery / mutually agreed delivery, or Subcontractor fails /refuses to complete the PO as per terms or insufficient facilities at Subcontractor's works to execute a PO or default by Subcontractor of any nature, BHEL has the right to get the items ordered elsewhere at the risk and cost of the subcontractor with notice to the subcontractor; and the additional expenditure / difference in cost, if any, including consequential cost shall be recovered from the defaulted subcontractor.

In addition, BHEL may recover from the default Subcontractor any loss to BHEL arising due to default by Subcontractor of any nature and action shall be taken as per latest revision of BHEL Guidelines for Suspension of Business dealings with Suppliers / Contractors.

Sub-contractor pending payments shall be withheld and/or their BG may be invoked to cover the liabilities of BHEL towards risk purchase, if any.

No compensation shall be given to the Subcontractor, in case of cancellation/diversion of PO(s) even if the jobs have been processed partly.

Process of calculating the risk and cost amount is as follows:

$$\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$$

Where,

A= Value of Balance scope of Work/ Supply (*) as per rates of new contract

B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract.

H = Overhead Factor to be taken as 5

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

Q] Liquidated Damages:

BHEL will levy penalty as Liquidated Damages (LD), for delay in delivery. The damages shall be at the rate of ½% per week or part thereof subject to a maximum of 10% value of the particular Work Order in the addendum to the Contract for the undelivered portion. Delivery for purpose of L.D, will be reckoned as the date of clearance of the items for dispatch by BHEL. Supplier should quote a definite delivery period and any delay in delivery will attract penalty.

The delivery period includes time involved in material collection, cutting plan approval, collection of further materials if any and handing over of the finished goods to BHEL-Shipping. Finished goods items shall be door delivered at Shipping/Stores inside the factory, BHEL, Ranipet.

R] Termination of Inquiry / Orders:

- a) BHEL reserves the right to cancel any inquiry before opening of the tender, without assigning any reason.
- b) BHEL reserves the right to cancel any tender and refloat a fresh tender, at any time after opening of the tender, in case it finds the response to its tender as not meeting its requirement. This shall be at the sole discretion of BHEL.



- c) In the event of non-performance of the contract by the Supplier, BHEL reserves the right to cancel the order with issue of a written notice. BHEL would provide a curing period of 30 days, for the Supplier to rectify the situation. If the Supplier fails to rectify the reason/s that led to the issue of cancellation notice by BHEL, then the cancellation order would be issued automatically by BHEL, without further recourse to the Vendor. BHEL will not pay any cancellation charges or any other charges / damages to the Supplier, arising out such cancellation.
- d) In the event of the non-performance of the contract, by the Supplier, the rights of BHEL include, in addition to cancelling the order, to take alternate action at the cost and risk of the supplier. The additional expenditure to be incurred by BHEL in such alternate action would be to the account of the supplier.
- e) BHEL reserves the right to cancel the order for delay in supply beyond penalty period without any monetary or legal obligations and at the risk and cost of the Supplier and
- f) BHEL will levy penalty as Liquidated Damages (LD), for delay in delivery. The damages shall be at the rate of ½% per week or part thereof subject to a maximum of 10% value of the particular Work Order in the addendum to the Contract for the undelivered portion. Delivery for purpose of L.D, will be reckoned as the date of clearance of the equipment for dispatch by BHEL.

S) Suspension of Business Dealings with vendors

The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.

1.0 Integrity commitment, performance of the contract and punitive action thereof:

1.1. Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

1.2. Commitment by Bidder/ Supplier/ Contractor:

1.2.1. The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under provision of the Indian Penal Code, 1860 or any other law in force in India.

1.2.2. The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.

1.2.3. The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on www.bhel.com and/or under applicable legal provisions".



T) Force Majeure

i) If at any time during the currency of this contract, the performance in whole or in part, by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events), then provided notice of happening of any such events is given by either party to other within ten days from the date of occurrence thereof, neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

ii) If as a result of difficulty in procurement of raw materials or due to force majeure reasons or any other reasons what-so-ever the contractor is unable to keep the delivery schedule of the contractee, extension of time may be granted by the contractee at their discretion as may be necessary to the extent considered necessary should there be delay in supply beyond the extended date of delivery, it shall be open to the contractee to terminate the contract in part or full and make other arrangements for executing fabrication elsewhere at the cost and risk of the contractor.

U) Integrity Pact (IP)

IP is a tool to ensure that activities and transactions between the company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory who signs in the offer) along with techno-commercial bid. Only those bidders who have entered into such an IP with BHEL would be permitted to participate in the bidding. In other words, entering into pact would be a preliminary qualification.

SI no	IEM	Email
1	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

Please refer section-8 of the IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with IEMs shall be done through email only.

No routine correspondence shall be addressed to the IEM (phone / post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below

Name: B.Sivasubramanian Manager & S.Srinivasan, Exe.Addl.Engr II
Deptt: Outsourcing
Address: BHEL, Ranipet



Phone: (Landline/ Mobile) 04172-284030/284158/ 9442586376 & 9442308554

e-mail: bsmanian@bhel.in & ssvasan@bhel.in

Integrity Pact are applicable for all the BHEL enquiries whose estimated value is equal to or more than Rupees 02 Crores.

Format of Integrity Pact as per annexure H is attached along with the tender documents for ready reference.

VJ Fraud Prevention Policy:

The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on **BHEL website <http://www.bhel.com>** and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

As per BHEL's Fraud prevention Policy, Nodal officers were nominated by BHEL Management. The details of such Nodal officers are furnished below:

Name shri/smt	Designation	Email ID	Phone No
Manimala K P	GM-OS & WCM	manimala@bhel.in	04172-28 4050
Ashok K	GM-,SOM , PMS & DTG	apa@bhel.in	04172-28 4607
Ravikumar P	GM- OPERATIONS	pravi@bhel.in	04172-28 4574
Saravanan G A	GM- MM,Marketing & NGA	saravananga@bhel.in	04172-28 4446
Sivaprakasam P	GM-ENGINEERING	sprakasam@bhel.in	04172- 28 4964
Suresh Kumar P	GM – Coml ,RM & Shipping	psureshkumar@bhel.in	04172-28 4300
Vijayalakshmi K G	GM-Finance	kgviji@bhel.in	04172- 28 4518
Umapathi N K	SDGM-VIGILENCE	umapathi@bhel.in	04172-28 4463

Any bidder / contractor who come across any fraudulent behaviour of BHEL's employees may communicate the same to any / all of these Nodal officers.

WJ Arbitrations & Conciliation

Except as provided elsewhere in this contract, in case amicable settlements is not reached between the parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the contract; or, the respective rights and liabilities of the parties; or, in relation to interpretation of any provision of the contract; or, in any manner touching upon the contract, then, either party may, by a notice in writing to other party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Head of the BHEL unit, Ranipet.

The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties.

Subject as aforesaid, the provisions of arbitration and conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be BHEL, Ranipet. The cost of arbitration shall be borne as per the award of the Arbitrator.

Subject to the arbitration, the courts at Ranipet shall have exclusive jurisdiction over any matter arising out of or in connection with this contract.

Notwithstanding the existence or any dispute or difference and/or reference for the arbitration, the contractor shall proceed with and continue without hindrance the performance of its



obligations under this contract with due diligence and expedition in a professional manner except where the contract has been terminated by either party in terms of this contract.

X] Others

- a) The Firms are advised to study and understand the scope of work and the entire process of Contract execution involved before quoting. Any technical clarifications required can be sought in person or by e-mail one week before the due date of Tender opening.
- b) In case of any contradiction in the terms and conditions given here and elsewhere in the other documents of the tender or any omissions in the Tender documents or for any clarifications in the tender conditions, it shall be the responsibility of the tenderer to get it clarified from BHEL. The officer authorized to provide such clarifications is the Manager / Contracts, Outsourcing Department, Phone: 04172 – 284030, e-mail bsmanian@bhel.in , ssvasan@bhel.in ,
- c) Alterations to the conditions of the Tender can be done only by the authorized officer, at any time before the date and time of tender opening. Such changes, if any, would be communicated in writing and / or hosted in the web-page.
- d) BHEL will conclude that the offer has been submitted by the firm fully understanding all the requirements both explicit and implied and other conditions and accepting the same. After tender opening, the bidders are not allowed to change / alter any of the conditions either partly or fully. Offers of any such firms doing so, will be rejected.
- e) Conditional and late Tenders, Tenders which are incomplete or otherwise considered defective with respect to Tender conditions and Tenders not in accordance with the Tender conditions herein contained and the Tenders not in original shall be rejected out rightly, at any point of time during the Tender processing.
- f) Should the tenderer or the contractor have a relation or relations in the case of a firm or company of contractors, one or more of its shareholders or relations or relations of the share holders employed in BHEL or any ex-employee who has retired / resigned within a period of two years as on date of quotations or at any subsequent date after the award of the contract, the authority inviting the Tender shall be informed of the fact at the time of submission of the tender and there after as applicable and obtain the clearance of BHEL for such engagement failing which, BHEL may in its own discretion reject the tender or rescind the contract.
- g) If a Bidder is found to have given false information / documents as a part of their offer, such offers shall be rejected / the contract shall be terminated and the firm shall be banned from getting business from all BHEL units.
- h) If any Supplier attempts to bribe, or pay commission, gift or any advantage or bring in undue influence either by himself or on his behalf any one including a stranger to the tender, in addition to instituting legal proceedings as per the extant laws prevailing, will disqualify the supplier from this tender and all future tenders of BHEL. Decision of the Purchaser would be final in this matter.
- i) The laws governing this transaction shall be the laws in India.
- j) The tenderer shall acquaint himself with the conditions/limitations and official regulations under which or conforming to which the jobs are to be performed and shall examine carefully at the information as may be furnished to them in writing from time to time.
- k) The tenderer shall acquaint himself with applicable Acts.
- l) As a policy BHEL is not registering any power of attorney issued by Contractors/Contractors in favour of their bank for the collection of Invoice amounts on behalf of Contractors/Contractors and merely because BHEL had acted upon any such request by the party or their bankers does not constitute any legal right or binding on BHEL for any acts of omissions and commissions or failure to act upon it or for any payment



made directly to the party. If any banker includes BHEL also as a party to any such dispute between the banker and the party, all legal and incidental expenses thereof will be recovered from the concerned parties only.

m) In the event of an order, Supplier shall agree to settlement of disputes or differences, if any, by way of arbitration, in accordance with the "Rule of Arbitration" of the Indian Council of Arbitration.

n) *The offer/s of such of those bidders who do not accept for levy of liquidated damages (LD) for delay in delivery and who do not accept for submission of the BG for the value and period specified herein above is likely to be summarily rejected. No correspondence would be entertained by BHEL in this regard, on this subject. BHEL specifically draws the need of this mandatory requirement to the notice of all Bidders. The Price Bid of such of those offerers failing to meet this requirement, would not be considered for the Price-Bid Opening.*

o) *The language in the tender downloaded by the Bidders shall at no point of time be changed, altered or modified in any manner by the Tenderer. If such changes are made by any tenderer, it shall be considered as tampering with BHEL's specifications and the offer shall be summarily rejected, whenever it is noticed by BHEL. Such Bidders would be disqualified from the Bidding Process and their offers would be forfeited / Bank Guarantees invoked. They would not be allowed to participate in future tenders of BHEL.*

Y] General :

1.0 Definitions : Throughout these conditions and in the specifications the terms :

(a) "**The Contractee**" means the Bharat Heavy Electricals Limited, acting through the Additional General Manager, Outsourcing Department ,Boiler Auxiliares Plant, Ranipet – 632 406 unless the context otherwise provides.

(b) "**The Contractor**" means the person, firm or company with whom the order for machining / fabrication is placed and shall be deemed to include the Contractor's successor (approved by the Contractee), representatives, heirs, executors and administrators, as the case may be, unless excluded by the terms of the Contract.

(c) "**The Drawings**" means the drawings exhibited or provided for the guidance of the Contractor.

1.0 Execution :

The whole contract is to be executed in the most approved substantial and workman like manner to the entire satisfaction of the contractee, or the inspecting officer, who shall have power to reject any of the fabrication of which he may disapprove; and his decision thereon and on any question as to the true intent and meaning of the specifications of drawings or of the work necessary for the proper completion of the contract, shall be final and conclusive. The contractee may require alterations if any to be made during the progress of machining /fabrication, and should these alterations be such that either partly to the contract considers an alteration in the changes justified such alteration shall not be carried out until amended cost of machining /fabrication charges have been submitted by contractor and accepted to fabricate without obtaining the consent of the contractee in writing to an amended cost of machining /fabrication charges, the contractor shall be deemed to have agreed to execute fabrication at such charges as may be considered reasonable by the contractee.

2.0 Interpretation :

Any dispute or difference of opinion in respect of the interpretation, effect or application of this particular condition of the contract or of the amount recoverable here under from the contractor shall be decided by the contractee and the decision shall be final and conclusive.

3.0 Book Examination Clause :



(a) The contractor shall, whenever required, produce or cause to be produced for examination by any officer of the contractee authorized in that behalf any cost or other account book or account voucher, receipt letter, memorandum, paper or writing or any copy of extract from any such document and also furnish information and returns verified in such a manner as may be required in any way relating to the execution of this contract or relevant for verifying, ascertaining, the cost of execution of this contract (the decision of such officer of the contractee on this question or relevancy of any document, information or return being final and binding on the parties). The obligation imposed by this clause is without prejudice to the obligation of the contract/Job-Work-Order or under any statutory rules or orders binding the contractor.

(b) The contractor shall, if the authorized officer of the contractee so requires (whether before or after the prices have been finally fixed), afford facilities to the officer of the contractee concerned to visit the contractor's works for the purpose of examining the process of manufacture and estimate of ascertaining the cost of production of the articles. If any portion of the work be carried out by a Contractor or any subsidiary or an allied firm or company, the authorized officer of the contractee shall have power to secure the books of such Contractor or any subsidiary or an allied firm or company shall be open to this inspection.

4.0 Set – Off Clauses :

BHEL shall have the right to recover any money which in the sole opinion of BHEL is due from the Contractor from any money due to the Contractor under this Contract or any other contract or from the Security Deposit furnished by the Contractor under this Contract or any other contract.

"For the sake of clarity, the phrases "from any money due to the contractor" and "from the Security Deposit furnished by the Contractor" shall include money due from and Security Deposit furnished to any other Unit/ Office of BHEL as the case may be".

5.0 Laws Governing the Contract :

(a) The contract shall be governed by the laws of Government of India in force.

(b) Irrespective of the place of execution of the contract, place of delivery, place of payment under the contract, the contract shall be deemed to have been made at Ranipet.

6.0 The Global Compact :

Global compact is a signature initiative of United Nations Security General and four United Nation Agencies

- Office of the High Commissioner for Human rights
- International Labour Organization
- United Nations Environment Programme
- United Nations Development programme

This is a board based initiative and engages:

- Individual Companies
- Business Associations
- International Labour
- Human Rights, Environment and development Organisations
- Academic & Public Policy Instructions and United Nations

The Contractee (BHEL) is a member of this Global Compact. As a participating Company, We have the obligation to

- ** Support and respect Human rights with in our spheres of influence.
- ** Make sure we are not complicit in Human right abuses.
- ** Make sure we are not employing forced or compulsory labour.



- ** Refrain from employing child labour
- ** Eliminate discrimination in our hiring and firing policies
- ** Support a precautionary approach to Health, Safety of employees and society and environmental challenges.
- ** Undertake initiatives to promote greater environmental responsibility
- ** Encourage development and diffusion of environmentally friendly technologies.

Contractor shall also ensure to fall in line with the above principles.

7.0 Occupational Health and Safety Management System ISO 45001) and Environmental Management System (ISO 14001)

BHEL/BAP/RANIPET got accreditation Occupational Health and Safety Management System (ISO 45001) and Environmental Management System (ISO 14001). As per this, OS Contractors are requested to meet the requirements of EHS (Environmental Health & Safety) guidelines (mentioned below), while engaging and using Vehicles for incoming/outgoing transportation.

- To have valid Driving licence and RC book for the Transports
- To load the vehicle/bullock cart within the Safe Working Load (S.W.L.) The S.W.L. is to be displayed/painted on the vehicle/bullock cart.
- To load the material in such a way that it should not project outside the dimensions of the Vehicle/bullock cart.
- To stack the material in a manner that the material should not slide/fall during transportation.
- During manual lifting with an Adult, the weight should not exceed 50 kg.
- To attempt to adopt ISO 45001 / ISO 14001 requirements in their manufacturing process at Contractor's work place.
- To comply with applicable provisions of the Central Motor Vehicles Rules 1989 (Rule:136 and if any). List of important Phone Nos: (given by OS) should be available with the driver while transporting BHEL materials.
- To train drivers to handle emergency situation during transportation.
- To follow the Various Acts/Rules and Regulations (particulary Factories Act 1948 and Tamil Nadu Factory Rules 1950) applicable to them.
- To maintain valid PUC (Pollution Under Control) certificates and produce while vehicle is in this company premises.

Contractors are requested to meet the requirements of ISO 45001 / ISO 14001 as given below:

- ** To adopt ISO 45001 / ISO 14001 requirements in their manufacturing process at Contractor's work place.
- ** To comply with applicable provisions of the Central Motor Vehicles Rules 1989 (Rule: 136 and if any).
- ** To follow the applicable Acts/Rules and Regulations (like Factories Act 1948 and Tamil Nadu Factory Rules – 1950) applicable to them.
- ** In addition to this, they should follow the day to day communication of OS on this regard.

Attention to Vendors

➤ Attach only the documents mentioned above under Clause G – Submission of Offers.

Section V

Enquiry No.652001E

Dt.09-09-2022

List of Representative Drawings /Sketches (Rate Schedule wise) for OS(MAIN)ARC 2022-23

RS-NO	DRG-FILE-NO	DESCRIPTION OF DRG	NO. OF DRG
102B	R102C-1	SUPPORT BRACKET	1
102C	R102C-1	SUPPORT BRACKET	1
102D	R102D-1	GUTTER II	1
102F	R102F-1	Hand rail post manufacture	1
102F	R102F-2	Hand rail post manufacture	1
103A	R103A-1	SHOCK BAR PLATE	1
103A	R103A-2	SUPPORT	1
106C	R106C-1	IMPELLER ASSEMBLY	1
106C	R106C-2	IMPELLER ASSEMBLY	1
106D	R106D-1	SINGLE SUCTION SPIRAL CASING ASSEMBLY	1
106E	R106E-2	Double Suction Impeller Assembly	1
106E	R106E-3 (Rev)	Single Suction Impeller Assembly	1
106F	R106F-2	Double Suction Impeller Assembly	1
106F	R106F-3 (Rev)	Single Suction Impeller Assembly	1
106G	R106G-2	Double Suction Impeller Assembly	1
106G	R106G-3 (Rev)	Single Suction Impeller Assembly	1
106H	R106H-2	Double Suction Impeller Assembly	1
106H	R106H-3 (Rev)	Single Suction Impeller Assembly	1
106J	NO DRG	EXTRA % FOR FULL NAXTRA IMPELLER (Applicable for RS 106D to 106H)	0
107A	R107A-1	RETAINER TYPE D	1
107B	R107B-1	RETAINER TYPE A	1
108A	R108A-1	RETAINER TYPE A	1
109A	R109A-1	Aluminium Casing	1
109B	R109A-1	Aluminium Casing	1
110A	R110A-1	CIRCULAR DAMPER ASSY	1
110A	R110A-10	KNUCKLE	1
110A	R110A-11	FOLLOWER PLATE	1
110A	R110A-12	GLAND PLATE	1
110A	R110A-13	GLAND	1
110A	R110A-14	BEARING HOLDER	1
110A	R110A-2	CIRCULAR DAMPER FRAME	1
110A	R110A-3	CIRCULAR DAMPER BLADE	1
110A	R110A-4	DRIVE SHAFT	1
110A	R110A-5	STUB SHAFT	1
110A	R110A-6	LEVER ASSEMBLY	1
110A	R110A-7	LINKAGE PIN	1
110A	R110A-8	KEY	1
110A	R110A-9	STUD	1
110B	R110B-1	CIRCULAR DAMPER ASSY	1
110B	R110B-10	KNUCKLE	1
110B	R110B-11	FOLLOWER PLATE	1

110B	R110B-12	GLAND PLATE	1
110B	R110B-13	GLAND	1
110B	R110B-14	BEARING HOLDER	1
110B	R110B-2	CIRCULAR DAMPER FRAME	1
110B	R110B-3	CIRCULAR DAMPER BLADE	1
110B	R110B-4	DRIVE SHAFT	1
110B	R110B-5	STUB SHAFT	1
110B	R110B-6	LEVER ASSEMBLY	1
110B	R110B-7	LINKAGE PIN	1
110B	R110B-8	KEY	1
110B	R110B-9	STUD	1
111A	R111A-1	IMPELLER ASSEMBLY(AXIAL FAN)	1
112A	R112A-1	IMPELLER ASSEMBLY(AXIAL FAN)	1
112B	R112B-1	IMPELLER ASSEMBLY(AXIAL FAN)	1
112C	R112C-1	AN Impeller with hub	1
112C	R112C-1Revised	Impeller Assembly (Axial Fan)	1
113A	R113A-1	AN Impeller with hub	1
113A	R113A-1Revised	Running Wheel (Czech Design)	1
114A	R114A-1	RUNNING WHEEL (CZECK) DESIGN	1
114B	R114B-1	RUNNING WHEEL (CZECK) DESIGN	1
114C	R114C-1	RUNNING WHEEL (CZECK) DESIGN	1
117K	R117K-1	GUILLOTINE GATE ASSEMBLY	1
117K	R117K-10	MATING FLANGE	1
117K	R117K-11	GATE BLADE	1
117K	R117K-2	GUILLOTINE FRAME ASSEMBLY	1
117K	R117K-3	IDLER SHAFT	1
117K	R117K-4	DRIVE SHAFT	1
117K	R117K-5	CHAIN GUARD ASSEMBLY	1
117K	R117K-6	OPERATOR MOUNTING BRACKET	1
117K	R117K-7	FRAME TOP	1
117K	R117K-8	FRAME BOTTOM	1
117K	R117K-9	FRAME SIDE	1
117L	R117L-1	GUILLOTINE GATE ASSEMBLY	1
117L	R117L-10	MATING FLANGE	1
117L	R117L-11	GATE BLADE	1
117L	R117L-2	GUILLOTINE FRAME ASSEMBLY	1
117L	R117L-3	IDLER SHAFT	1
117L	R117L-4	DRIVE SHAFT	1
117L	R117L-5	CHAIN GUARD ASSEMBLY	1
117L	R117L-6	OPERATOR MOUNTING BRACKET	1
117L	R117L-7	FRAME TOP	1
117L	R117L-8	FRAME BOTTOM	1
117L	R117L-9	FRAME SIDE	1
117M	R117M-1	GUILLOTINE GATE ASSEMBLY	1
117M	R117M-10	MATING FLANGE	1
117M	R117M-11	GATE BLADE	1
117M	R117M-2	GUILLOTINE FRAME ASSEMBLY	1

117M	R117M-3	IDLER SHAFT	1
117M	R117M-4	DRIVE SHAFT	1
117M	R117M-5	CHAIN GUARD ASSEMBLY	1
117M	R117M-6	OPERATOR MOUNTING BRACKET	1
117M	R117M-7	FRAME TOP	1
117M	R117M-8	FRAME BOTTOM	1
117M	R117M-9	FRAME SIDE	1
118D	R118D-1	Pnumatic Fittings And Air Tank For Gates - Air Tank	1
118D	R118D-2	Pnumatic Fittings And Air Tank For Gates - Male Connector	1
118D	R118D-3	Pnumatic Fittings And Air Tank For Gates - Staright Union	1
118D	R118D-4	Pnumatic Fittings And Air Tank For Gates - Equal Tee Union	1
118D	R118D-5	Pnumatic Fittings And Air Tank For Gates - St.Conn.1 Inch OD X 3/4 Inch Npt(Male)	1
118K	R118K-1	GATE ASSY PNUMATIC OPERATED	1
118K	R118K-2	GATE ASSY PNUMATIC OPERATED-FRAME ASSY	1
118K	R118K-3	GATE ASSY PNUMATIC OPERATED-FRAME SIDE ASSY	1
118K	R118K-4	GATE ASSY PNUMATIC OPERATED-FRAME BOTTOM ASSY	1
118K	R118K-5	GATE ASSY PNUMATIC OPERATED-FRAME NS & FSASSY	1
118K	R118K-6	GATE ASSY PNUMATIC OPERATED-BLADE ASSY	1
118K	R118K-7	SPRING SEAL ASSEMBLY(SIDE,BOTTOM)	1
118K	R118K-8	SPRING SEAL ASSEMBLY(PORT,BONNET)	1
118K	R118K-9	GATE ASSY PNUMATIC OPERATED-BULB SEAL	1
118L	R118L-1	PNUMATIC FITTINGS AND AIR TANK FOR GATES - AIR TANK	1
118L	R118L-2	PNUMATIC FITTINGS AND AIR TANK FOR GATES - MALE CONNECTOR	1
118L	R118L-3	PNUMATIC FITTINGS AND AIR TANK FOR GATES - STARIGHT UNION	1
118L	R118L-4	PNUMATIC FITTINGS AND AIR TANK FOR GATES - EQUAL TEE UNION	1
118L	R118L-5	PNUMATIC FITTINGS AND AIR TANK FOR GATES - ST.CONN.1"OD X 3/4"NPT(MALE)	1
118L	R118L-6	Gate Assy Pnumatic Operated-Blade Assy	1
118L	R118L-7	Spring Seal Assembly(Side,Bottom)	1
118L	R118L-8	Spring Seal Assembly(Port,Bonnet)	1
118L	R118L-9	Gate Assy Pnumatic Operated-Bulb Seal	1
119K	R119K-1	GATE ASSY PNUMATIC OPERATED	1
119K	R119K-2	GATE ASSY PNUMATIC OPERATED-FRAME ASSY	1
119K	R119K-3	GATE ASSY PNUMATIC OPERATED-FRAME SIDE ASSY	1
119K	R119K-4	GATE ASSY PNUMATIC OPERATED-FRAME BOTTOM ASSY	1
119K	R119K-5	GATE ASSY PNUMATIC OPERATED-FRAME NS & FSASSY	1
119K	R119K-6	GATE ASSY PNUMATIC OPERATED-BLADE ASSY	1
119K	R119K-7	SPRING SEAL ASSEMBLY(SIDE,BOTTOM)	1
119K	R119K-8	SPRING SEAL ASSEMBLY(PORT,BONNET)	1
119K	R119K-9	GATE ASSY PNUMATIC OPERATED-BULB SEAL	1
130A	R130A-1	SINGLE SUCTION SPIRAL CASING ASSEMBLY	1
131A	R131A-1	IMPELLER ASSEMBLY(AXIAL FAN)	1
131B	R131B-1	IMPELLER ASSEMBLY(AXIAL FAN)	1
131C	R131C-1	IMPELLER ASSEMBLY(AXIAL FAN)	1
132A	R132A-1	RUNNING WHEEL (CZECK) DESIGN	1

132B	R132B-1	RUNNING WHEEL (CZECK) DESIGN	1
132C	R132C-1	RUNNING WHEEL (CZECK) DESIGN	1
135D	R135D-1	APH Rotor housing panels-MAIN PEDESTAL & ASP ASSY	1
135D	R135D-2	APH Rotor housing panels-MAIN PEDESTAL & ASP ASSY	1
135D	R135D-3	APH Rotor housing panels-MAIN PEDESTAL & ASP ASSY	1
135D	R135D-4	APH-Rtr-Hsg-Panel-Dsp-Assy-Alstom-Design	1
135D	R135D-5	APH-Rtr-Hsg-Panel-Dsp-Assy-Alstom-Design	1
137A	R137A-1	LONGITUDINAL ROOF BEAM	1
137C	R137C-1	OUTLET MIDDLE COLUMN	1
137C	R137C-2	SAW FLOOR BEAMS, SAW BRACINGS	1
137C	R137C-3	SAW FLOOR BEAMS, SAW BRACINGS	1
137D	R137D-1	LONGITUDINAL ROOF BEAM	1
137E	R137E-1	OUTLET MIDDLE COLUMN	1
139F	R139F-1	SAW column 4 fillet with attachment	1
139R	R139R-1	SAW column 6 fillet with attachment	1
139S	R139R-1	SAW column 6 fillet with attachment	1
139T	R139T-1	SAW column 12 fillet with attachment	1
139U	R139T-1	SAW column 12 fillet with attachment	1
139V	R139V-1	SAW Roof Girder-Bolted	1
140C	R139F-1	SAW column 4 fillet with attachment	1
140R	R139R-1	SAW column 6 fillet with attachment	1
140S	R139R-1	SAW column 6 fillet with attachment	1
140T	R139T-1	SAW column 12 fillet with attachment	1
140U	R139T-1	SAW column 12 fillet with attachment	1
140V	R139V-1	SAW Roof Girder-Bolted	1
143A	R143A-1	IMPELLER WITH HARD FACING	1
143B	R143B-1	IMPELLER WITH HARD FACING	1
160A	R160A-1	SHOCK BAR PLATE	1
161A	R161A-1	SPRING SEAL ASSEMBLY(PORT,BONNET)	1
161A	R161A-2	SPRING SEAL ASSEMBLY(PORT,BONNET)	1
163A	R163A-1	SPRING SEAL ASSEMBLY(SIDE,BOTTOM)	1
163A	R163A-2	SPRING SEAL ASSEMBLY(SIDE,BOTTOM)	1
164A	R164A-1	BLADE TO BLADE SEAL	1
164A	R164A-2	BLADE TO FRAME SEAL	1
164A	R164A-3	BIPLANE DAMPER - SEAL ASSEMBLY	1
164B	R164B-1	GATE ASSY PNUMATIC OPERATED-BULB SEAL	1
165A	R165A-1	JAMP SEAL ASSEMBLY	1
166A	NO DRG	DYNAMIC BALANCING-DRG NOT APPLICABLE	0
167A	NO DRG	DYNAMIC BALANCING-DRG NOT APPLICABLE	0
168A	NO DRG	DYNAMIC BALANCING-DRG NOT APPLICABLE	0
175B	R175B-1	CHIMNEY SUPPORT CHANNEL	1
175B	R175B-2	CHIMNEY SHELL BASE PLATE	1
175C	R175C-1	CHIMNEY SHELL THICNESS	1
175D	R175D-1	CHIMNEY SHELL THICNESS	1
176C	R176C-1	CHIMNEY SHELL THICNESS	1
176D	R176D-1	CHIMNEY SHELL THICNESS	1
176E	R176E-1	CHIMNEY SHELL THICNESS	1

181A	R181A-1	D BEND 42.9mm DIA	1
181B	R181B-1	D BEND 42.9mm DIA	1
181C	R181C-1	D BEND 42.9mm DIA	1
181D	R181D-1	D BEND 42.9mm DIA	1
51A	NO DRG	Cut to size of Sheets/ Plate-As per respective Drgs	0
51B	NO DRG	Cut to size of Sheets/ Plate-As per respective Drgs	0
51C	NO DRG	Cut to size of Sheets/ Plate-As per respective Drgs	0
51D	NO DRG	Cut to size of Sheets/ Plate-As per respective Drgs	0
51E	R51E-1	Matching Plate	1
51F	R51F-1	Support Channel ISMC	1
51G	R51G-1	Support Channel ISMC	1
51H	NO DRG	Cut to size DU's per piece (unit) weight up to 10 Kgs	0
51J	NO DRG	Cut to SHAPE of plates/sheets DU's per piece (unit) weight up to 10 Kgs APPLICABLE DRGS OF RS NOS: 51E, 51F, 51G	0
52A	R52A-1	MonoRail (ISMB)	1
52A	R52A-2	TR Beam	1
52A	R52A-3	LONGITUDINAL/BEAM	1
52A	R52A-4	LONGITUDINAL/BEAM	1
52A	R52A-5	PACKING CRATES	1
52B	R52B-1	Support Channel ISMC	1
52B	R52B-10	SIDE BEAM ISMB	1
52B	R52B-11	MIDDLE BEAM ISMB	1
52B	R52B-12	LADDER	1
52B	R52B-13	WALKWAY	1
52B	R52B-2	Purlin	1
52B	R52B-3	ANGLE BRACING	1
52B	R52B-4	ANGLE BRACING	1
52B	R52B-5	SUPPORTING BEAM	1
52B	R52B-6	HORIZONTAL BRACING	1
52B	R52B-7	SUPPORT	1
52B	R52B-8	CORNER TUBE	1
52B	R52B-9	BRACKET-I	1
52C	R52C-1	VERTICAL STAY	1
52D	R52D-1	GUSSET & BRACKING	1
52D	R52D-2	HORIZONTAL SPLITTERS	1
52E	R52E-1	TRANSVERSE RIDGE	1
52E	R52E-2	Vertical Beam	1
52S	R52S-1	STAINLESS STEEL CORNER TUBE	1
53A	R53A-1	TRUSS-II	1
53A	R53A-2	SUPPORTING BEAM I	1
53A	R53A-3	DIAGONAL BRACKING	1
53A	R53A-4	HORIZONTAL BRACING	1
53A	R53A-5	SILENCER ASSEMBLY	1
53B	R53B-1	OUTLET MIDDLE COLUMN	1
53C	R53C-1	SUPPORTING STRUCTURE COLUMN	1
53C	R53C-2	COLUMN	1

53D	R53D-1	PACKING OF SHOCK BAR	1
53D	R53D-2	SHOCK ASSY	1
53F	R53F-1	BEAM	1
53F	R53F-2	TRUSS-I	1
53F	R53F-3	BRACKING	1
53F	R53F-4	DUCT SUPPORT-II	1
53F	R53F-5	STRINGER CHNL ASSY-II	1
53G	R53G-1	STOOL ASSY	1
53H	R53H-1	LONGITUDINAL RIDGE	1
54B	R54B-1	OUTER ROOF	1
54C	R54C-1	PACKING OF VERTICAL BEAM	1
54C	R54C-2	VERTICAL BEAM	1
54C	R54C-3	SUPPORT	1
54C	R54C-4	SUPPORT ANGLE	1
54C	R54C-5	SUPPORT ANGLE	1
54C	R54C-6	SHOCK BEAM	1
54C	R54C-7	SHOCK BEAM	1
54C	R54C-8	INSULATOR HOUSING(SINGLE)	1
54D	R54D-1	SCREEN SHEET /WITH OUT PUNCHING/INCLUDING PACKING	1
54D	R54D-2	INSULATOR HOUSING(X17)	1
54D	R54D-3	SUPPORT DOUBLE	1
54E	R54E-1	FGD tanks	1
54E	R54E-2	FGD tanks	1
54E	R54E-3	FGD tanks	1
54E	R54E-4	FGD tanks	1
54F	R54F-1	Conical hopper-ESP	1
54F	R54F-2	Conical hopper-ESP	1
54F	R54F-3	Conical hopper-ESP	1
54F	R54F-4	Conical hopper-ESP	1
54G	R54G-1	Bunker silo	1
54G	R54G-2	Bunker silo	1
54H	R54H-1	Manufacture of ring girder	1
56A	R56A-1	APH Rotor Housing Panels-SIDE PEDESTAL	1
56A	R56A-2	APH Rotor Housing Panels-BASKET REM PANEL	1
56A	R56A-3	APH Rotor Housing Panels-BASKET REM DOOR	1
56A	R56A-4	APH Rotor Housing Panels-DRIVE BRAC. PANEL	1
56A	R56A-5	APH Rotor Housing Panels-DRIVE BRACKET	1
56A	R56A-6	APH Rotor Housing Panels-AIR/GAS SIDE PANEL	1
56A	R56A-7	FRAME PART MIDDLE	1
56C	R56C-1	INSULATOR HOUSING SINGLE	1
56D	R56D-1	INSULATOR HOUSING DOUBLE	1
56E	R56E-1	SCREW LEFT	1
56E	R56E-10	EMITTING SYSTEM -(SUSPENSION- X21 X22 X23)	1
56E	R56E-11	EMITTING RAPPING	1
56E	R56E-12	DRIVE ARRANGEMENT(CE)	1
56E	R56E-2	BRACKET	1
56E	R56E-3	BRACKET	1

56E	R56E-4	SHOCK BAR GUIDE	1
56E	R56E-5	PROTECTIVE TUBE	1
56E	R56E-6	OUTLET FUNNEL	1
56E	R56E-7	GAS DISTRIBUTOR(ASSEMBLY)	1
56E	R56E-8	EMITTING SYSTEM(SUSPENSION- X13)	1
56E	R56E-9	INSPECTION DOOR	1
56F	R56F-1	SUPPORT SINGLE	1
56F	R56F-2	COVER PLATE	1
56F	R56F-3	CHIMNEY STRAKES	1
56G	R56G-1	PLENUM DUCT	1
56G	R56G-2	TRANSITION DUCT	1
56H	R56H-1	Airpreheater Rotor Housing Panels-Side Pedestal(56H)	1
56H	R56H-2	Airpreheater Rotor Housing Panels-Basket Rem. Panel(56H	1
56H	R56H-3	Airpreheater Rotor Housing Panels-Basket Rem. Door(56H)	1
56H	R56H-4	Airpreheater Rotor Housing Panels-Drive Brak. Panel(56H	1
56H	R56H-5	Airpreheater Rotor Housing Panels-Drive Brakcket(56H	1
56H	R56H-6	Airpreheater Rotor Housing Panels-Air/Gas Side Panels(56H)	1
56J	R56J-1	ROLLING AND PACKING OF APH SHELLS (AL-Drawings)	1
57A	R57A-1	SUSPENSION ARRANGEMENT	1
57A	R57A-2	SUSPENSION ARRANGEMENT	1
57A	R57A-3	FRAME PART TOP	1
57A	R57A-4	SHOCK BAR	1
57A	R57A-5	SUSPENSION ARRANGEMENT	1
57C	R57C-1	EMITTING SYSTEM	1
57H	R57H-1	Transition hopper rectangular to circular	1
57H	R57H-2	Transition hopper rectangular to circular	1
57H	R57H-3	Transition hopper rectangular to circular	1
57J	R57J-1	Absorber casing panel ducts with flange	1
59A	R59A-1	OUTLET FUNNEL	1
59A	R59A-10	SILENCER ASSEMBLY	1
59A	R59A-2	TRANSITION WALL	1
59A	R59A-3	INLET FUNNEL ASSY.	1
59A	R59A-4	BEND DUCT	1
59A	R59A-5	ELBOW DUCT	1
59A	R59A-6	STRAIGHT DUCT	1
59A	R59A-7	INLET FUNNEL WALL	1
59A	R59A-8	EP FUNNEL ASSY	1
59A	R59A-9	HOPPER LOWER	1
59B	R59B-1	HOPPER LOWER	1
59B	R59B-2	HEATING CHAMBER	1
59B	R59B-3	HOPPER LOWER HEATING CHAMBER	1
59C	R59C-1	SHOCK BAR GUIDE RAP SIDE	1
59C	R59C-2	SHOCK BAR GUIDE NON RAP	1
59C	R59C-3	GUIDE VANE	1
59D	R59J-1	Bolted design rolled column	1
59E	R59E-1	Bolted design rolled bracing	1
59E	R59E-1	R59E-1 ((Bolted type Bracings))	1

59F	R59F-1	Monorail with radius	1
59G	R59G-1	Monorail with radius	1
59H	R59H-1	Trestles/Trusses	1
59H	R59H-2	Trestles/Trusses	1
59H	R59H-3	Trestles/Trusses	1
59H	R59H-4	Trestles/Trusses	1
59J	R59J-1	Bolted design rolled column	1
62A	R62A-1	APH Deluge and Wash Pipes	1
63A	R63A-1	SILENCER ASSEMBLY	1
63A	R63A-2	SILENCER	1
63A	R63A-3	SPACER DUCT	1
63A	R63A-4	TRANSITION DUCT	1
64A	R64A-1	PAINTER TROLLY	1
65A	R65A-1	EXPANSION JOINT	1
65A	R65A-2	SEAL PLATE	1
65B	R65B-1	SAW TOOTH EXPANSION JOINT	1
65B	R65B-2	METALLIC EXPANSION JOINT	1
65C	R65C-1	METALLIC EXPANSION JOINT	1
67A	R67A-1	SINGLE SUCTION SPIRAL CASING ASSEMBLY	1
68B	R68B-1	DOUBLE SUCTION SPIRAL CASING ASSEMBLY	1
68C	R68C-1	DOUBLE SUCTION SPIRAL CASING ASSEMBLY	1
71A	R71A-1	SCREEN SHEET	1
71A	R71A-2	COVER PLATE	1
72A	R72A-1	RETAINER TYPE D	1
73A	R73A-1	EE HOLDER	1
74A	R74A-1	HANGING HOOK	1
75A	R75A-1	TAPH	1
75A	R75A-10	TAPH	1
75A	R75A-11	TAPH	1
75A	R75A-12	TAPH	1
75A	R75A-2	TAPH	1
75A	R75A-3	TAPH	1
75A	R75A-4	TAPH	1
75A	R75A-5	TAPH	1
75A	R75A-6	TAPH	1
75A	R75A-7	TAPH	1
75A	R75A-8	TAPH	1
75A	R75A-9	TAPH	1
76A	R76A-1	DAMPER SHAFT	1
76B	R76B-1	DAMPER SHAFT	1
76C	R76C-1	DAMPER SHAFT	1
76E	R76E-1	DAMPER SHAFT	1
76F	R76F-1	DAMPER SHAFT	1
76G	R76G-1	DAMPER SHAFT	1
77H	R77H-1	BIPLANE DAMPER ASSEMBLY	1
77H	R77H-10	BLADE BLOCK ASSEMBLY	1
77H	R77H-11	BLADE PIN	1

77H	R77H-12	MOUNTING BRACKET	1
77H	R77H-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77H	R77H-2	BIPLANE DAMPER-FRAME ASSMBLY	1
77H	R77H-3	BIPLANE DAMPER - BLADE (TOP& BOTTOM) ASSEMBLY	1
77H	R77H-4	BIPLANE DAMPER - BLADE (MIDDLE) ASSEMBLY	1
77H	R77H-5	BIPLANE DAMPER - SEAL ASSEMBLY	1
77H	R77H-6	JAMP SEAL ASSEMBLY	1
77H	R77H-7	DRIVE SHAFT	1
77H	R77H-8	SLAVE SHAFT	1
77H	R77H-9	STUB SHAFT	1
77I	R77I-1	BIPLANE DAMPER ASSEMBLY	1
77I	R77I-10	BLADE BLOCK ASSEMBLY	1
77I	R77I-11	BLADE PIN	1
77I	R77I-12	MOUNTING BRACKET	1
77I	R77I-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77I	R77I-2	BIPLANE DAMPER-FRAME ASSMBLY	1
77I	R77I-3	BIPLANE DAMPER - BLADE (TOP& BOTTOM) ASSEMBLY	1
77I	R77I-4	BIPLANE DAMPER - BLADE (MIDDLE) ASSEMBLY	1
77I	R77I-5	BIPLANE DAMPER - SEAL ASSEMBLY	1
77I	R77I-6	JAMP SEAL ASSEMBLY	1
77I	R77I-7	DRIVE SHAFT	1
77I	R77I-8	SLAVE SHAFT	1
77I	R77I-9	STUB SHAFT	1
77J	R77J-1	BIPLANE DAMPER ASSEMBLY	1
77J	R77J-10	BLADE BLOCK ASSEMBLY	1
77J	R77J-11	BLADE PIN	1
77J	R77J-12	MOUNTING BRACKET	1
77J	R77J-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77J	R77J-2	BIPLANE DAMPER-FRAME ASSMBLY	1
77J	R77J-3	BIPLANE DAMPER - BLADE (TOP& BOTTOM) ASSEMBLY	1
77J	R77J-4	BIPLANE DAMPER - BLADE (MIDDLE) ASSEMBLY	1
77J	R77J-5	BIPLANE DAMPER - SEAL ASSEMBLY	1
77J	R77J-6	JAMP SEAL ASSEMBLY	1
77J	R77J-7	DRIVE SHAFT	1
77J	R77J-8	SLAVE SHAFT	1
77J	R77J-9	STUB SHAFT	1
77K	R77K-1	BIPLANE DAMPER ASSEMBLY	1
77K	R77K-10	BLADE BLOCK ASSEMBLY	1
77K	R77K-11	BLADE PIN	1

77K	R77K-12	MOUNTING BRACKET	1
77K	R77K-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77K	R77K-2	BIPLANE DAMPER-FRAME ASSMBLY	1
77K	R77K-3	BIPLANE DAMPER - BLADE (TOP& BOTTOM) ASSEMBLY	1
77K	R77K-4	BIPLANE DAMPER - BLADE (MIDDLE) ASSEMBLY	1
77K	R77K-5	BIPLANE DAMPER - SEAL ASSEMBLY	1
77K	R77K-6	JAMP SEAL ASSEMBLY	1
77K	R77K-7	DRIVE SHAFT	1
77K	R77K-8	SLAVE SHAFT	1
77K	R77K-9	STUB SHAFT	1
77L	R77L-1	BIPLANE DAMPER ASSEMBLY	1
77L	R77L-10	BLADE BLOCK ASSEMBLY	1
77L	R77L-11	BLADE PIN	1
77L	R77L-12	MOUNTING BRACKET	1
77L	R77L-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77L	R77L-2	BIPLANE DAMPER-FRAME ASSMBLY	1
77L	R77L-3	BIPLANE DAMPER - BLADE (TOP& BOTTOM) ASSEMBLY	1
77L	R77L-4	BIPLANE DAMPER - BLADE (MIDDLE) ASSEMBLY	1
77L	R77L-5	BIPLANE DAMPER - SEAL ASSEMBLY	1
77L	R77L-6	JAMP SEAL ASSEMBLY	1
77L	R77L-7	DRIVE SHAFT	1
77L	R77L-8	SLAVE SHAFT	1
77L	R77L-9	STUB SHAFT	1
77M	R77M-1	STUB SHAFT	1
77M	R77M-10	BIPLANE DAMPER ASSEMBLY	1
77M	R77M-11	BLADE BLOCK ASSEMBLY	1
77M	R77M-12	BLADE PIN	1
77M	R77M-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77M	R77M-2	MOUNTING BRACKET	1
77M	R77M-3	BIPLANE DAMPER-FRAME ASSMBLY	1
77M	R77M-4	BIPLANE DAMPER - BLADE (TOP& BOTTOM) ASSEMBLY	1
77M	R77M-5	BIPLANE DAMPER - BLADE (MIDDLE) ASSEMBLY	1
77M	R77M-6	BIPLANE DAMPER - SEAL ASSEMBLY	1
77M	R77M-7	JAMP SEAL ASSEMBLY	1
77M	R77M-8	DRIVE SHAFT	1
77M	R77M-9	SLAVE SHAFT	1
77N	R77N-1	STUB SHAFT	1
77N	R77N-10	LOUVER DAMPER ASSEMBLY	1
77N	R77N-11	DRIVE SHAFT	1

77N	R77N-12	SLAVE SHAFT	1
77N	R77N-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77N	R77N-2	BLADE PIN	1
77N	R77N-3	CONTROL LOUVER DAMPER ASSEMBLY	1
77N	R77N-4	LOUVER DAMPER FRAME ASSEMBLY	1
77N	R77N-5	LOUVER & CONTROL LOUVER BLADE ASSEMBLY	1
77N	R77N-6	BLADE TO BLADE SEAL	1
77N	R77N-7	BLADE TO FRAME SEAL	1
77N	R77N-8	MOUNTING BRACKET	1
77N	R77N-9	MOUNTING BRACKET	1
77O	R77O-1	DRIVE SHAFT	1
77O	R77O-10	LOUVER DAMPER ASSEMBLY	1
77O	R77O-11	STUB SHAFT	1
77O	R77O-12	BLADE BLOCK ASSEMBLY	1
77O	R77O-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77O	R77O-2	BLADE PIN	1
77O	R77O-3	CONTROL LOUVER DAMPER ASSEMBLY	1
77O	R77O-4	LOUVER DAMPER FRAME ASSEMBLY	1
77O	R77O-5	LOUVER & CONTROL LOUVER BLADE ASSEMBLY	1
77O	R77O-6	BLADE TO BLADE SEAL	1
77O	R77O-7	BLADE TO FRAME SEAL	1
77O	R77O-8	MOUNTING BRACKET	1
77O	R77O-9	DRIVE SHAFT	1
77P	R77P-1	SLAVE SHAFT	1
77P	R77P-10	LOUVER DAMPER ASSEMBLY	1
77P	R77P-11	STUB SHAFT	1
77P	R77P-12	BLADE BLOCK ASSEMBLY	1
77P	R77P-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77P	R77P-2	BLADE PIN	1
77P	R77P-3	CONTROL LOUVER DAMPER ASSEMBLY	1
77P	R77P-4	LOUVER DAMPER FRAME ASSEMBLY	1
77P	R77P-5	LOUVER & CONTROL LOUVER BLADE ASSEMBLY	1
77P	R77P-6	BLADE TO BLADE SEAL	1
77P	R77P-7	BLADE TO FRAME SEAL	1
77P	R77P-8	MOUNTING BRACKET	1
77P	R77P-9	DRIVE SHAFT	1
77Q	R77Q-1	SLAVE SHAFT	1
77Q	R77Q-10	LOUVER DAMPER ASSEMBLY	1
77Q	R77Q-11	STUB SHAFT	1

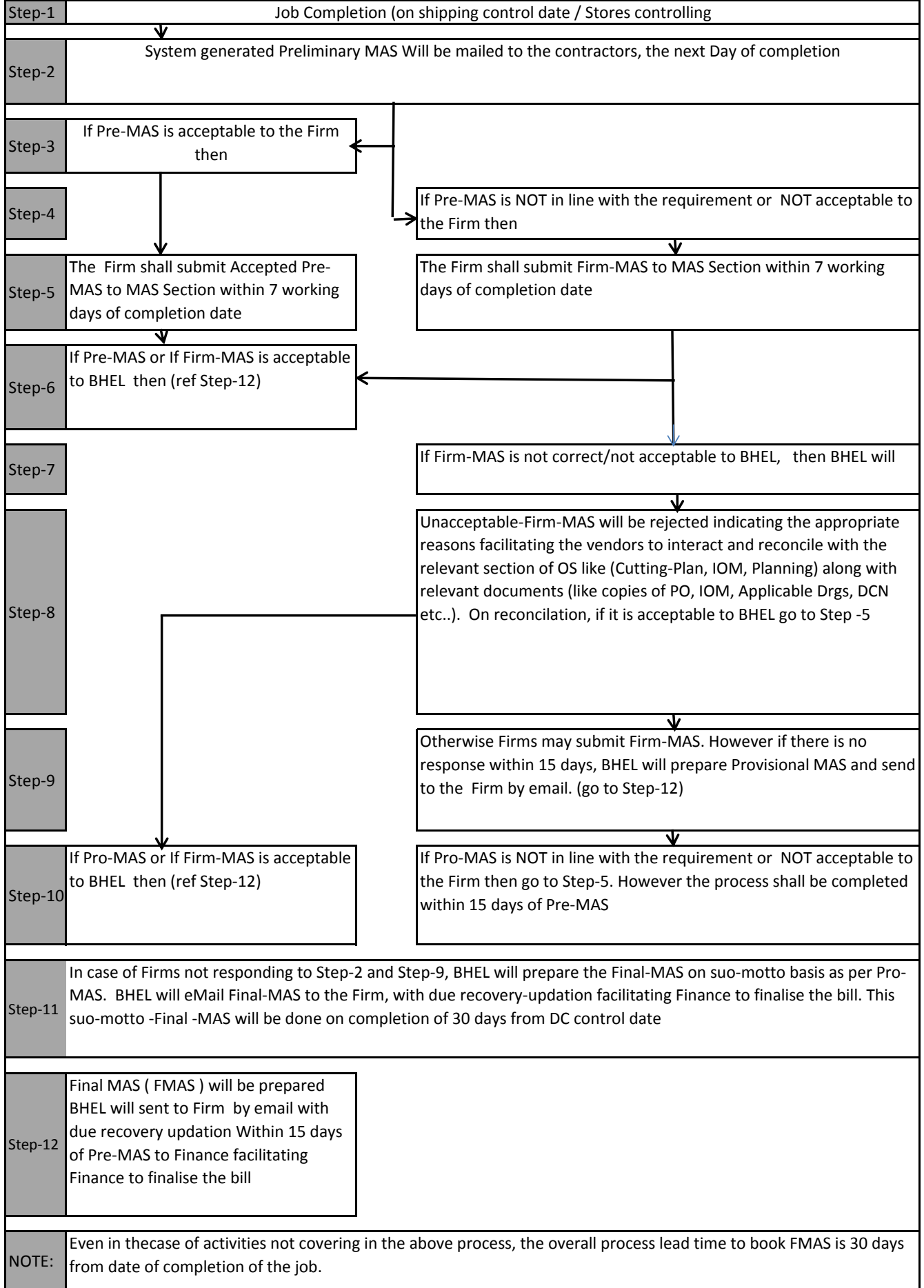
77Q	R77Q-12	BLADE BLOCK ASSEMBLY	1
77Q	R77Q-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77Q	R77Q-2	BLADE PIN	1
77Q	R77Q-3	CONTROL LOUVER DAMPER ASSEMBLY	1
77Q	R77Q-4	LOUVER DAMPER FRAME ASSEMBLY	1
77Q	R77Q-5	LOUVER & CONTROL LOUVER BLADE ASSEMBLY	1
77Q	R77Q-6	BLADE TO BLADE SEAL	1
77Q	R77Q-7	BLADE TO FRAME SEAL	1
77Q	R77Q-8	MOUNTING BRACKET	1
77Q	R77Q-9	DRIVE SHAFT	1
77R	R77R-1	SLAVE SHAFT	1
77R	R77R-10	LOUVER DAMPER ASSEMBLY	1
77R	R77R-11	STUB SHAFT	1
77R	R77R-12	BLADE BLOCK ASSEMBLY	1
77R	R77R-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77R	R77R-2	BLADE PIN	1
77R	R77R-3	CONTROL LOUVER DAMPER ASSEMBLY	1
77R	R77R-4	LOUVER DAMPER FRAME ASSEMBLY	1
77R	R77R-5	LOUVER & CONTROL LOUVER BLADE ASSEMBLY	1
77R	R77R-6	BLADE TO BLADE SEAL	1
77R	R77R-7	BLADE TO FRAME SEAL	1
77R	R77R-8	MOUNTING BRACKET	1
77R	R77R-9	DRIVE SHAFT	1
77S	R77S-1	SLAVE SHAFT	1
77S	R77S-10	LOUVER DAMPER ASSEMBLY	1
77S	R77S-11	STUB SHAFT	1
77S	R77S-12	BLADE BLOCK ASSEMBLY	1
77S	R77S-13 TO 26	LEVER ASSY., LOCK LEVER ASSY., LINKAGE PIN, KEY, STUD, ADJUSTING LINK, KNUCKLE CENTRE, KNUCKLE RH & LH, LOCK TAB, FOLLOWER PLATE, GLAND PLATE, GLAND, BEARING HOLDER, BLADE POSITION INDICATOR	1
77S	R77S-2	BLADE PIN	1
77S	R77S-3	CONTROL LOUVER DAMPER ASSEMBLY	1
77S	R77S-4	LOUVER DAMPER FRAME ASSEMBLY	1
77S	R77S-5	LOUVER & CONTROL LOUVER BLADE ASSEMBLY	1
77S	R77S-6	BLADE TO BLADE SEAL	1
77S	R77S-7	BLADE TO FRAME SEAL	1
77S	R77S-8	MOUNTING BRACKET	1
77S	R77S-9	DRIVE SHAFT	1

Section-VI

Enquiry No.652001E

Dt.09-09-2022

Flow chart for processing of Material Account Statement (MAS)



SECTION - VII

RATE SCHEDULE MASTER for OS(MAIN) ARC 2022-23

Enq.No:- 652001E

dt 09-09-2022

SL NO.	RS GROUP	RS NO.	DESCRIPTION	UNIT
1	APHP	56H	APH HOUSING PANELS LIKE BRD PANEL ASSY, RDB PANEL ASSY, SIDE PANEL ASSY INCLUDING PLATE BENDING, ROLLING	MT
2	APHP	56J	ONLY ROLLING, STACKING AND PACKING OF SHELL PLATES - ALL PRODUCTS	MT
3	APHP	135D	APH Housing Items Like Main / Primary / Side / other Pedestals including rolling , bending – BHEL / Alstom Design (BPS Items Supplied As Component)	MT
4	AUTO	137A	FABRICATION OF BUILT UP TRANVERSE ROOF BEAMWHEREIN THE SECTIONS ARE MADE OUT OF PLATESBY SAW [NDT CHARGES [OTHER THAN LPI] ARE PAYABLE EXTRA].	MT
5	AUTO	137C	Fabrication of Floor beams, I- Beam, BOX beams, for FGD / CHP/ AHP etc.,(Other than ESP beams) H-type,][- type, Box type MADE OF E350 MATERIAL where in sections are made of plates by SAW process (NDT Charges other than LPI payable Extra)	MT
6	AUTO	137D	Fabrication of longitudinal roof beam / transverse roof beam / roof beams having multiple stiffeners (RandM projects) wherein the sections are made out of plates by saw process. NDT charges [other than LPI]are payable extra.	MT
7	AUTO	137E	Fabrication of Beam/Box type built-up columns (4 fillets) covered in FGD/ CHP / AHP/ BOP etc., made of plates of E250 grade material. NDT charges (other than LPI) payable extra	MT
8	AUTO	139A	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT UPTO 1 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
9	AUTO	139B	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT ABOVE 1 MT AND UPTO 3 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
10	AUTO	139C	FABRICATION OF FLOOR BEAMS, MONORAIL BEAMS, I – BEAMS, BOX BEAMS FOR FGD/CHP/AHP etc., (OTHER THAN ESP BEAMS) H - TYPE,][- TYPE , BOX TYPE MADE OF E250 MATERIAL UNIT PIECE WEIGHT ABOVE 3 MT WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
11	AUTO	139D	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT UPTO 1 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
12	AUTO	139E	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 1 MT & UPTO 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
13	AUTO	139F	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E250 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
14	AUTO	139R	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade material unit Piece weight upto 10 MT (part of a Du or Single part DU).(attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
15	AUTO	139S	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade material unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT

SECTION - VII

RATE SCHEDULE MASTER for OS(MAIN) ARC 2022-23

Enq.No:- 652001E

dt 09-09-2022

SL NO.	RS GROUP	RS NO.	DESCRIPTION	UNIT
16	AUTO	139T	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade materials unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
17	AUTO	139U	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E250 grade materials unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
18	AUTO	139V	Beam/Box type bolted design Roof Girders made of E250 grade materials	MT
19	AUTO	140A	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT UPTO 1 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
20	AUTO	140B	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 1 MT & UPTO 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
21	AUTO	140C	BEAM/BOX TYPE BOLTED DESIGN COLUMNS (4 FILLETS) WITH ATTACHMENTS COVERED IN FGD/PHS/CHP/AHP/BOP ETC., MADE OF E350 GRADE MATERIAL WHERE IN SECTIONS ARE MADE OF PLATES BY SAW PROCESS UNIT PIECE WEIGHT ABOVE 3 MT (PART OF A DU OR SINGLE PART DU). (ATTACHMENT MEANS - STRAIGHT /TAPER WELDED ATTACHMENTS WITH DRILLIED CONNECTIONS ON WEB AND FLANGES)	MT
22	AUTO	140R	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade material unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
23	AUTO	140S	PH Box type bolted design columns (6 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade material unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
24	AUTO	140T	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade materials unit Piece weight upto 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
25	AUTO	140U	Plus/Star type bolted design columns (12 fillets) with attachments covered in PHS/CHP/AHP/BOP etc., made of E350 grade materials unit Piece weight above 10 MT (part of a Du or Single part DU). (attachment means - straight /taper welded attachments with drilled connections on web and flanges)	MT
26	AUTO	140V	Beam/Box type bolted design Roof Girders made of E350 grade materials	MT
27	CHIMA	175B	MANUFACTURE OF CHIMNEY SHELL BASE PLATE(NDT CHARGES(OTHER THAN LPI)PAYABLE EXTRA)	MT
28	CHIMA	175C	MANUFACTURE OF CHIMNEY SHELLS THICKNESS UPTO 16 MM WITH TRIAL ASSEMBLY (RATE IS INCLUSIVE OF TRIAL ASSEMBLY)(THE CHIMNEY SHELLS WITH OR WITHOUT FLANGE;SHELLS MADE UP OF HALF SEGMENTS OR FULL(NDTCHARGES (OTHER THAN LPI)PAYABLE EXTRA).	MT
29	CHIMA	175D	MANUFACTURE OF CHIMNEY SHELLS THICKNESS ABOVE 16 MM UPTO 25 MM WITH TRIAL ASSEMBLY (RATE IS INCLUSIVE OF TRIAL ASSEMBLY).(THE CHIMNEY SHELLS WITH OR WITHOUT FLANGE;SHELLS MADE UP OF HALFSEGMENTSORFULL(NDTCHARGES (OTHER THAN LPI)	MT
30	CHIMA	176C	Manufacture And Rolling Of Chimney Shells Thickness Above 25MM To 32 MM With Trial Assembly(Rate Is Inclusive Of Trialassembly).The Chimney Shells Are With Or With Out Flange.Shellsmade Up Of Half Segment Or Full.(NDT Charges (Other Than Lpi)Payable Extra). Additional Material given for rolling allowance will be booked as off-cut.	MT

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31	CHIMB	176D	Manufacture And Rolling Of Chimney Shells Thickness Above 32MM To 40 MM With Trial Assembly(Rate Is Inclusive Of Trialassembly).The Chimney Shells Are With Or With Out Flange.Shellsmade Up Of Half Segment Or Full.(NDT Charges (Other Than Lpi)Payable Extra).Additional Material given for rolling allowance will be booked as off-cut.	MT
32	CHIMC	176E	MANUFACTURE AND ROLLING OF CHIMNEY SHELLS THICKNESS ABOVE 40MM TO 50 MM WITH TRIAL ASSEMBLY(RATE IS INCLUSIVE OF TRIALASSEMBLY).THE CHIMNEY SHELLS ARE WITH OR WITH OUT FLANGE . SHELLSMADE UP OF HALF SEGMENT OR FULL.(NDT CHARGES (OTHER THAN LPI)PAYABLE EXTRA). ADDITIONAL MATERIAL GIVEN FOR ROLLING ALLOWANCE WILL BE BOOKED AS OFF-CUT.	MT
33	DAMP	76A	FLAP DAMPER OF FAN [UPTO 0.50 MT]	MT
34	DAMP	76B	FLAP DAMPER OF FAN [ABOVE 0.50 MT TO 2.0 MT]	MT
35	DAMP	76C	FLAP DAMPER OF FAN [ABOVE 2.0 MT TO 5.0 MT]	MT
36	DAMP	76E	FLAP DAMPER OF FAN [ABOVE 7.0 MT TO 10.0 MT]	MT
37	DAMP	76F	FLAP DAMPER OF FAN [ABOVE 10 MT]	MT
38	DAMP	76G	FLAP DAMPER OF FAN [ABOVE 5.0 MT TO 7.0 MT]	MT
39	DAMP	77H	BIPLANE DAMPER INCLUDING SEALS MFG [UPTO 0.50 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
40	DAMP	77I	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 0.50 MT TO 2.0 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
41	DAMP	77J	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 2.0 MT TO 5.0 MT] - TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
42	DAMP	77K	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 5.0 MT TO 7.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
43	DAMP	77L	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 7.0 MT TO 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
44	DAMP	77M	BIPLANE DAMPER INCLUDING SEALS MFG [ABOVE 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
45	DAMP	77N	LOUVRE DAMPER INCLUDING SEALS MFG [UPTO 0.50 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
46	DAMP	77O	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 0.50 MT TO 2.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
47	DAMP	77P	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 2.0 MT TO 5.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
48	DAMP	77Q	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 5.0 MT TO 7.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
49	DAMP	77R	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 7.0 MT TO 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
50	DAMP	77S	LOUVRE DAMPER INCLUDING SEALS MFG [ABOVE 10.0 MT]- TESTING CHARGES (IF REQUIRED) PAYABLE EXTRA	MT
51	DAMP	110A	CIRCULAR DAMPERS UPTO 150KG/PIECE	NO
52	DAMP	110B	CIRCULAR DAMPERS ABOVE 150KG/PIECE	NO
53	EXP	65A	METALLIC EXPN.JOINT[BELLOW TYPE]WITH SEAL PLATE, EXPANSION JOINT S TYPE.	MT
54	EXP	65B	METALLIC EXPN.JOINT [SAW-TOOTH/BELLOW TYPE] WITH SEAL PLATE, EXPANSION JOINT (STAINLESS STEEL). REF:DRG: 3-FW-252-00006 OR EQUIVALENT	MT
55	FSP	67A	SINGLE SUCTION SPIRAL CASING ABOVE 500 KGS , LINER, TRANSITION PIECE, ETC.	MT
56	FSP	68B	DOUBLE SUCTION SPIRAL CASING INCLUDING BASE/SUPPORT,ETC.ABOVE 500 KGS TO 30 MT	MT
57	FSP	68C	DOUBLE SUCTION SPIRAL CASING INCLUDING BASE/SUPPORT,ETC.ABOVE 30 MT	MT
58	FSP	130A	SPIRAL CASING (UPTO 500 KGS PER PIECE)	NO
59	GATE A	117K	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED UPTO 7 MT. (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT

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60	GATE A	118D	PNEUMATIC FITTINGS AND AIR TANK FOR GATES INCLUDING TESTING	MT
61	GATE A	118K	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED UPTO 2 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
62	GATE A	118L	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED ABOVE 2 MT TO 7 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
63	GATE B	117L	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED ABOVE 7 MT TO 10 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
64	GATE B	117M	GATE ASSY INCLUDING SEALS MFG ELECTRICALLY OPERATED ABOVE 10 MT. (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
65	GATE B	119K	GATE ASSY INCLUDING SEALS MFG PNEUMATICALLY OPERATED ABOVE 7.0 MT (WITHOUT TESTING, TESTING CHARGES PER NO IN EXTRA RS WILL BE PROVIDED)	MT
66	GEN	51A	CUT TO SIZE / SUIT DUS PER PIECE WEIGHT > 100 KGS, STRUCTURALS CUTTING FROM BEAMS, CHANNELS. STRUCTURALS / HAND RAIL TUBES TO BE CUT TO SIZE FOR GALVANIZING AND REQD. IN RM.(BLASTING and GALVANIZING CHARGES ARE PAYABLE EXTRA TO THE RESPECTIVE VENDOR).	MT
67	GEN	51B	CUT TO SIZE DUs PER PIECE WEIGHING ABOVE 10 KGS AND UPTO 25KGS	MT
68	GEN	51C	CUT TO SIZE DUs PER PIECE WEIGHING MORE THAN 25KGS AND UPTO 50KGS	MT
69	GEN	51D	CUT TO SIZE DUs PER PIECE WEIGHING MORE THAN 50KGS TO 100KGS	MT
70	GEN	51E	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 10 KGS AND UPTO 25KGS	MT
71	GEN	51F	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 25 KGS TO 50 KGS	MT
72	GEN	51G	CUT TO SUIT OF DUs PER PIECE WEIGHING ABOVE 50 KGS TO 100 KGS	MT
73	GEN	51H	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 2 KGS AND UPTO 10 KGS	MT
74	GEN	51J	CUT TO SUIT OF DUS PER PIECE (UNIT) WEIGHT ABOVE 2 KGS AND UPTO 10 KGS	MT
75	GEN	51K	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT UPTO 0.2 KG	NO
76	GEN	51L	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.2 KG TO 0.5 KG	NO
77	GEN	51M	CUT TO SIZE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.5 KG TO 2 KG	NO
78	GEN	51P	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT UPTO 0.2 KG	NO
79	GEN	51Q	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.2 KG TO 0.5 KG	NO
80	GEN	51R	CUT TO SUIT / SHAPE DUs PER PIECE (UNIT) WEIGHT ABOVE 0.5 KG TO 2 KG	NO
81	GEN	52A	MONORAIL BEAM (STRAIGHT), LONGITUDINAL, TRANSVERSE/BEAM [ROLLED SECTION] HAVING FULL / PARTIAL BOLTED CONNECTION, CARBON STEEL EXTRA WIDTH PLATE, PACKING CRATES	MT
82	GEN	53A	ROOF TRUSSES (IN X55), CORTEN EXTRA WIDTH PLATES, SUPPORT BEAM WITH COVER PLATE WELDING, BOX TYPE BRACING FULLY WELDED TYPE, CHANNEL/BEAM BRACINGS WITH FULL COVER PLATES/INTERMITANT COVER PLATES, SILENCER BASE/SUPPORTS, MONORAIL BEAM (STRAIGHT) INVOLVING ADDITIONAL CHANNEL ON TOP FLANGE (ROLLED SECTION)	MT
83	GEN	53B	WELDED DESIGN ESP / BUNKER / FGD / CHP / AHP / BOP COLUMNS H, J, BOX TYPE TO BE MANUFACTURED OUT OF ROLLED SECTION CHANNEL & BEAM ABOVE 203 MM & UPTO 305MM [NDT CHANGES [OTHER THAN LPI] ARE PAYABLE ETC.	MT
84	GEN	53C	WELDED DESIGN ESP / BUNKER / FGD / CHP / AHP / BOP COLUMNS H, J, BOX TYPE TO BE MANUFACTURED OUT OF ROLLED SECTION CHANNEL & BEAM ABOVE 305MM [NDT CHANGES [OTHER THAN LPI] ARE PAYABLE ETC.	MT
85	GEN	53H	HOPPER RIDGES WITH COVER PLATE AND STIFFENER IN X43	MT

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86	GEN	53J	WELDED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS UP TO 203 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
87	GEN	54B	ROOF PANELS ASSY WITH COLLAR [BOTH SQUARE AND ROUND TYPE]	MT
88	GEN	54E	MANUFACTURE OF A) FGD TANKS SHELLS (LS SLURRY TANK, PROCESS WATER TANK, DM WATER TANK ETC - BOTTOM TO TOP TIERS MADE FROM PLATES 16 MM TO 6 MM THICK) INCLUSIVE OF TANK COVERS AND TANK BASE (CONICAL). REF DRG: 0FW74200683 B) CYCLONE SEPARATOR INVOLVING SHELL ROLLING / CONE ROLLING OF UP TO 16 MM THICK. C) SHOCK BAR(FLAT TYPE) EXCLUDING HEAT TREATMENT.	MT
89	GEN	54F	Manufacture and trial assembly of Conical Hoppers of ESP - Having multiple tiers including SS lining - Ref Drg: 0-79-845-01619,20	MT
90	GEN	54G	Manufacture of silo tank shells both straight and conical with Stainless steel liner sheets & also having drill holes (for plug welding)	MT
91	GEN	54H	Complete manufacture of ring girders used for mounting silos / Tanks made of plates. Ref Drg: 06610000012 or Equivalent	MT
92	GEN	56A	FRAME PART MIDDLE [INCLUDING PACKING] & PIPE SUPPORT SADDLE FOR VARIOUS SIZES	MT
93	GEN	57A	SUSPENSION FRAME ARRANGEMENT, FRAME PART TOP, FRAME PART BOTTOM - ALL INCLUDING PACKING, TRANSITION DUCTS, ANGULAR DUCTS, OIL PAN RECTIFIER	MT
94	GEN	57C	FRAME PART TOP, FRAME PART BOTTOM WITH HOLLOW BEND AT ENDS (BENDING BY HYDRAULIC OR WELDING) INCLUSIVE OF PACKING.	MT
95	GEN	57D	SUSPENSION FRAME ARRANGEMENT INCLUDING MANUFACTURE OF HANKING HOOK FROM RAW MATERIAL SUPPLIED BY BHEL	MT
96	GEN	57H	HOPPERS WITH TRANSITION FROM SQUARE TO CIRCULAR OPENINGS AND TRANSITION DUCTS HAVING OPENING FROM CIRCULAR TO SQUARE / RECTANGULAR OPENINGS. REF DRG:1-79-845-07058-60.	MT
97	GEN	57J	ABSORBER CASING PANELS, DUCTS WALLS AND DUCT INCLUDING T Y ELBOW, BEND, TRANSITION [WITH OR WITHOUT CORNER WELDING BOTH SIDES RECTANGULAR OPENING] WITH FLANGES HAVING ELYPTICAL OPENING (WHERE FLANGES ARE FORMED BY PLATE) FOR FGD, ESP, FANS, APH, CHIMNEY, ETC REF: 0-FW-322-07260	MT
98	GEN	59A	DUCTS WALLS AND DUCT INCLUDING T Y ELBOW, BEND, TRANSITION [WITH OR WITHOUT CORNER WELDING BOTH SIDES RECTANGULAR OPENING], ABSORBER CASING PANELS INVOLVING ALL MATERIALS FOR FGD, ESP, FANS, APH, CHIMNEY, COAL AND ASH HANDLING ETC., HEATING CHAMBER, HOPPER LOWER WITH CORNER WELDING (WITHOUT SS FABRICATION), ROOF OF SUCTION HOOD ,TANK COVER ASSEMBLY, INLET AND OUTLET FUNNEL FOR ESP EXCLUDING TRIAL ASSEMBLY	MT
99	GEN	59B	Hopper Lower with heating chamber with SS fabrication, SS Guide vanes, SS Duct walls.	MT
100	GEN	59D	BOLTED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS ABOVE 305 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
101	GEN	59E	BOLTED TYPE BOX BRACINGS FULLY WELDED TYPE, ANGLE / CHANNEL / BEAM BRACINGS WITH FULL COVER PLATES / INTERMITANT COVER PLATES INVOLVING ABOVE ISMC / ISMB 125 FOR ALL PRODUCTS MANUFACTURED OUT OF ROLLED SECTIONS.	MT
102	GEN	59F	Mono rail beams up to Beam 450 with radius rolling	MT
103	GEN	59G	Mono rail beams up to Beam > 450 with radius rolling	MT
104	GEN	59H	Trestles / Trusses made of Angles / Channels / Hollows etc., Gallery Girders, Transmission / Gallery Structures requird in FGD / CHP / AHP / BOP etc., having full / partial bolted connections.	MT

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105	GEN	59J	BOLTED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS & BEAMS ABOVE 203 MM & UP TO 305 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
106	GEN	59K	BOLTED BRACINGS BOX TYPE FULLY WELDED TYPE, CHANNEL/BEAM BRACINGS WITH FULL COVER PLATES/INTERMITANT COVER PLATES MADE OF ANGLES, CHANNEL & BEAM UPTO 125 MM	MT
107	GEN	59L	BOLTED TYPE COLUMNS H - TYPE,][- TYPE , BOX TYPE OF FGD/ESP/ CHP/AHP/BOP etc., TO BE MANUFACTURED OUT OF ROLLED SECTIONS OF CHANNELS AND BEAMS UP TO 203 MM (NDT CHARGES OTHER THAN LPI PAYABLE EXTRA)	MT
108	GEN	63A	FAN SILENCER WITH TARPAULIN COVERING, RUBBEREXPN. JOINT [PLY RUBBER BINDING WITH GLUE]	MT
109	IMP	106C	SEAL AIR FAN/RADIAL FAN IMPELLER ASSEMBLY UNIT WT UPTO 500 KGS [HT/NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA.]	MT
110	IMP	106D	Rotor Assembly with Transport stand(Seal Air fan) full scope [Heat Treatment, NDT Charges [Other Than LPI]Payable Extra.]	MT
111	IMP	106E	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt above 500 kgs and upto 1500 kgs Ref Drg: 1-56-234-04598, 1-56-125-04131 or equivaqlant.	MT
112	IMP	106F	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt Above 1500 kgs and upto 3000 kgs - Ref Drg:1-56-226-04591 or equivqlant	MT
113	IMP	106G	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV)including balancing - unit Wt Above 3000 kgs upto 4500 kgs - Ref Drg: 1-56-226-04538 or equivalent.	MT
114	IMP	106H	Radial Impellers both Single AND Double suction - full scope (NDV/NDZV) including balancing - unit Wt Above 4500 kgs - Ref Drg: 1-56-227-04367/04046 or equivalent.	MT
115	IMP	106J	Extra % for full naxtra Impeller (Applicable for RS 106D to 106H)	%
116	IMP	111A	IMPELLER HUB AN TYPE ONLY	MT
117	IMP	112A	IMPELLER ASSEMBLY UPTO 500KGS (HUB AS COMPONENTET SUPPLIED BY BHEL)	MT
118	IMP	112B	IMPELLER ASSEMBLY [ABOVE 500KGS TO 1000 KGS]	MT
119	IMP	112C	IMPELLER ASSY [ABOVE1000 KGS] - HUB SUPPLIEDAS COMPONENT BY BHEL - AN TYPE	MT
120	IMP	113A	IMPELLER HUB/DEEP DISH END ONLY(CZECH TYPE)	MT
121	IMP	114A	IMPELLER ASS Y RUNNING WHEEL UPTO 500 (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT
122	IMP	114B	IMPELLER ASS Y RUNNING WHEEL ABOVE 500 TO 1000 KGS (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT
123	IMP	114C	IMPELLER ASS Y RUNNING WHEEL ABOVE 1000 KGS (HUB DISHED END SUPPLIED AS COMPONENTS-CZECH TYPE)	MT
124	IMP	131A	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging 100 Kgs To 500 Kgs HT/NDT Charges [Other than LPI] Payable Extra. Frequency Tuning not In The Firms Scope.	MT
125	IMP	131B	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging ABOVE 500 Kgs To 1000 Kgs HT/NDT Charges [Otherthanlpi] Payable Extra. Frequency Tuning not In The Firms Scope.	MT
126	IMP	131C	Complete Manufacture Of Impeller With Hub Assembly An Type[Impeller Including Hub Fabrication Including Dynamic Balancingfor Weight Ranging ABOVE 1000 Kgs. HT/NDT Charges [Otherthanlpi] Payable Extra. Frequency Tuning not In The Firms Scope.	MT
127	IMP	132A	COMPLETE MANUFACTUERE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB ABRICATION,DYNAMIC BALANCING FOR WEIGHT RANGING 100 KGS TO 500 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT

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128	IMP	132B	COMPLETE MANUFACTURE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB FABRICATION,DYNAMIC BALANCING FOR WEIGHT RANGING ABOVE 500 KGS TO 1000 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT
129	IMP	132C	COMPLETE MANUFACTURE OF IMPELLER WITH HUB ASSEMBLY (CZECH TYPE)(IMPELLER INCLUDING HUB ABRICATION, DYNAMIC BALANCING FOR WEIGHT RANGING ABOVE 1000 KGS (HT/NDT CHARGES (OTHER THAN LPI) PAYABLE EXTRA. FREQUENCY TUNING NOT IN FIRMS SCOPE.	MT
130	IMP	143A	IMPELLER ASSEMBLY [DL RADIAL TYPE] UPTO 1600MM DIA CZECH DESIGN INCLUDING BALANCING. HT / NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA	MT
131	IMP	143B	IMPELLER ASSEMBLY [DL RADIAL TYPE] ABOVE 1600MM DIA CZECH DESIGN INCLUDING BALANCING. HT / NDT CHARGES [OTHER THAN LPI] PAYABLE EXTRA	MT
132	IMP	166A	Dynamic Balancing Of Impeller/ hub/ shaft Upto 50 Kg.	NO
133	IMP	167A	DYNAMIC BALANCING OF IMPELLER ABOVE 50 KGS TO 200 KGS	NO
134	IMP	168A	DYNAMIC BALANCING OF IMPELLER ABOVE 200 KGS	MT
135	PUN	54D	SCREEN SHEETS WITHOUT PUNCHING(INCLUDING PACKING),VERTICAL SPLITTER,HOPPER DEFELECTION PLATE,ATTACHMENT IRON,RIDGE CAPSHEETS IN X43,SHIELD,ANGLE BAR ,MOTOR SHIELD,SIDE EAVES,END EAVES.	MT
136	PUN	59C	SHOCK BAR GUIDE OF SHEET TYPE,GUIDE VANE.	MT
137	PUN	71A	SCREEN SHEETS WITH PUNCHING INCLUDING PACKING	MT
138	PUN	72A	INSULATOR RETAINERS [TYPE-D] FROM THE BLANKS AND SCRAP OF SCREEN SHEETS OF RS-71A. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH 10 BUNDLES TO PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
139	PUN	73A	EE HOLDER - 1000 NOS TO BE PUT PER GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
140	PUN	74A	Hanging Hook - [150 Nos. To Be Put Per Gunny Bag]. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
141	PUN	107A	RETAINER - TYPE-D [RAW MATERIAL ISSUED AS SHEETS] RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION	NO
142	PUN	107B	RETAINER - SQUARE - TYPE-A TO DRG: 6172-0236 MADE OF SH 1.25X903 IS 513 DD [RAW MATERIAL ISSUED IN COIL FORM OF EACH 20 TONS]. ALSO TO DRG NO. [DRG: 6160-0142] MADE OF SHEET 2.00 MM [RAW MATERIAL ISSUED AS SHEETS] TO MAKE USE OF SCREEN SHEET STRIP SCRAP. PACKING IS TO BE DONE AS FOLLOWS. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH. 10 BUNDLES TO BE PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION.	NO
143	PUN	108A	INSULATOR RETAINERS [TYPE-D1 DRG: 4-79-068-00566] FROM THE BLANKS AND SCRAP OF SCREEN SHEETS OF RS-71A. TO BUNDLE WITH A BINDING WIRE CONSISTING OF 100 NOS EACH 10 BUNDLES TO PUT IN A GUNNY BAG. RATE INCLUSIVE OF ONE COAT OF RED-OXIDE / RP OIL APPLICATION.	NO
144	PUN	109A	Aluminum casing supports upto - 650 mm - ref drg: 6160 0141 Var.01	NO
145	PUN	109B	Aluminum casing supports above - 650 mm - ref drg: 6160 0141 var.03	NO
146	PUN	160A	SHOCK BAR PLATE TO DRAWING 4-78-324-00361 MADE OUT OF FLAT 65X8.ONE COAT OF REDOXIDE PRIMER AND SMOKE GRAY ALSO TO BE APPLIED. NO INVISIBLE AND PROCESS ALLOWANCE ALLOWED	NO
147	SEAL	161A	LOOSE SEALS OF PORT SEAL, BONNET SEAL, BIPLANE BLADE SEAL, TIP SEAL[RATE PER LEAF]	MR
148	SEAL	163A	WELDED SEAL [SET OF CENTRE SEALS BOTTOM SEAL,SIDE SEAL. STUD SUPPLIED AS COMPONENTS BY BHELIF REQUIRED]	MR
149	SEAL	164A	SINGLE LEAF BLADE SEAL, TIP SEAL.	MR

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150	SEAL	164B	BULB SEAL	MR
151	SEAL	165A	SET OF JAMB SEALS	MR
152	SSCT	52S	COMPLETE MANUFACTURE OF STAINLESS STEEL CORNER TUBE SEGMENT INCLUDING PACKING AS PER THE DRAWING FOR WHICH STAINLESS STEEL PLATE 5 / 6 MM RAW MATERIAL WILL BE ISSUED FROM BHEL. SAMPLE DRAWING 3-79-744-03243. UNIT WEIGHT 30.764 KG. RATE INCLUSIVE OF ONE JOINT PER PIECE	MT
153	TAPH	75A	TUBULAR AIR HEATERS INCLUDING SIDE WALLS ASSY, CASING.	MT
154	TINY	52B	WELDED TYPE SMALL GALLERIES, BEAMS (ROLLED SECTION), HOLLOW BRACINGS, RECTIFIER HANDLING SYSTEM, PENT HOUSE PURLIN CHANNEL TYPE, HOPPER APPROACH PLATFORM FRAMES WITH PLATES, LADDER, STAIR BEAM, CONTROL ROOM INSERTS, BRACINGS NON BOX TYPE, SUPPORTING BEAMS MADE OUT OF CHANNEL/BEAM, SIDE BEAM, MIDDLE BEAM, WALK WAY (ROLLED STRUCTURE), SUPPORT, SUPPORTING CHANNELS, BRACKETS, HOPPER CORNER TUBES (FROM IS2062 TUBES OR PLATES) REQUIRED FOR ESP / APH / FANS / GATES AND DAMPERS AND FGD PRODUCTS.	MT
155	TINY	52C	VERTICAL STAY (INCLUDING PACKING).	MT
156	TINY	52D	HORIZONTAL SPLITTERS,GUSSET PLATES.	MT
157	TINY	52E	HOPPER RIDGES WITHOUT COVER PLATE IN X43	MT
158	TINY	53D	SHOCK BAR (ANGLE TYPE)	MT
159	TINY	53F	RAILINGS, CONTROL FRAMES, DUCT SUPPORTS, BAP TRUSSES (OTHER THAN ROOF TRUSSES IN X55) TRUSS BEAMS, STAIRS (WELDED TYPE), STRINGERS, PURLINS ROD TYPE, STAR ANGLE, B/B ANGLE, APPROACH PLATFORM FRAMES WITH OUT PLATES, SUPPORTING BEAM WITH TRUSS ASSEMBLY	MT
160	TINY	53G	STOOL ASSEMBLY.	MT
161	TINY	53K	LADDERS (LADDER WITH CAGE), SHIPPING LADDER (STAIRS MADE OF PLATES)	MT
162	TINY	53M	SHOCK BAR (ANGLE TYPE) INCLUDING MANUFACTURE OF SHOCK BAR PLATE FROM RAW MATERIAL ISSUED BY BHEL.	MT
163	TINY	54C	SHOCK BEAM, ANGLE BAR, SUPPORT IN X42,SUPPORT ANGLE, CASING INSERTS, WALKWAY WITH COVER PLATE, VERTICAL BEAM.	MT
164	TINY	56C	INSULATOR HOUSING ASSYEMBLY X06 SINGLE WITH OR WITHOUT HT CONNECTION	MT
165	TINY	56D	INSULATOR HOUSING ASSYEMBLY[7XX06] DOUBLE WITH OR WITHOUT HT CONNECTION, INSULATOR HOUSING ASSY [X17] TAPER,SUPPORT DOUBLE.	MT
166	TINY	56E	GAS DISTRIBUTOR ASSEMBLY, EMITTING SYSTEM SUSPENSION, INSPECTION DOOR AND INTERLOCKS, SCREW (LEFT AND RIGHT), EMITTING SYSTEM FRAME WORK, ARRANGEMENT FOR EMITTING ELECTRODE, RAPPING MECHANISM FOR COLLECTING ELECTRODE,DRIVE ARRANGEMENT FOR COLLECTING ELECTRODE, RAPPING MECHANISM, CONVEYOR ASSEMBLY, SHOCK BAR GUIDE (RODS TYPE), ADAPTOR COVER, AEROFOIL, PROTECTIVE TUBES, BRACKET 7X X10,7X X26,7X X17 PGMAS, TUBE(RHS) (INCLUDING PACKING), OIL PAN	MT
167	TINY	56F	SUPPORT SINGLE,CONNECTION PIECE ,CHIMNEY STRAKES.	MT
168	TINY	56G	PLENUM DUCT AND TRANSITION DUCTS OF GATES AND DAMPERS Ref drg:15720303875, PART OF PIPEINGS/COOLING AIR HOODS WHERE SEGMENTAL BENDS MADE OUT OF PLATES / TUBES REF DRG:25512400038	MT
169	TINY	64A	BRACKET ASSY MACHINING, PAINTER TROLLEY.	MT
170	TINY	65C	Circular type expansion Joint Ref Drg: 3-57-141-16082 or equivalent.	MT
171	TINY	102B	SMALL DUS WEIGHING ABOVE 25 KGS TO 50 KGS PER PIECE,OF RATE SCHEDULES 52A TO 54D,[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT

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SL NO.	RS GROUP	RS NO.	DESCRIPTION	UNIT
172	TINY	102C	SMALL DUS WEIGHING ABOVE 50 KGS TO 100KGS PER PIECE, OF RATE SCHEDULES 52A TO 54D[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT
173	TINY	102D	SMALL DUS WEIGHING UPTO 25 KGS PER PIECE, OF RATE SCHEDULES 52A TO 54D[EXCEPT VERTICAL STAYS AND EXTRA WIDTH PLATE].	MT
174	TINY	102F	MANUFACTURE OF GALVANISED HAND RAIL POST (ALL TYPES). GALVANIZING TO BE DONE AT BHEL APPROVED SOURCE FOR WHICH CHARGES ARE PAYABLE EXTRA TO GALVANIZING VENDOR BY BHEL).INTERMITTENT TRANSPORT CHARGES PAYBLE EXTRA AS PER BHEL EXTRA RS)	MT
175	TINY	103A	MISC ITEMS SUCH AS SHOCK BAR PLATE,SUPPORTS(7XX08)	MT
176	TUB	181A	TUBE BENDS FOR HANDRAILS AND PIPE REDUCERS / BENDS UPTO 42.9 MM DIA(SINGLE BEND)	NO
177	TUB	181B	TUBE BENDS FOR HANDRAILS AND PIPE REDUCERS/ BENDS ABOVE 42.9 MM AND UPTO 76.1 MM DIA(SINGLE BEND)	NO
178	TUB	181C	TUBE BENDS (MULTIPLE BENDS) FOR HANDRAILS AND PIPE REDUCERS/ BENDS UPTO 42.9 MM DIA	NO
179	TUB	181D	Tube Bends (Multiple Bends) For Hand Rails And Pipe Reducers / Bendsabove 42.9 MM Dia And Upto 76.1MM Dia.	NO
180	WWS	62A	WATER WASHING MANIFOLD FOR APH [INCLUDINGMACHINING OF SADDLE COUPLING] and ESP INCLUDING NIPPLE MACHINING FOR ESP WATER WASHING SYSTEM	MT
1	EXTRA	E01	CONVERSION CHARGES FOR FLAT OUT OF PLATES .	MT
2	EXTRA	E03	MAGNETIC PARTICLE INSPECTION/TESTING [MPI].	MR
3	EXTRA	E04	RADIOGRAPHY [RT]	MR
4	EXTRA	E07X	DEDUCTION OF TRANSPORT CHAGES FOR DTS 0 TO 100 KMS	MT
5	EXTRA	E07Y	DEDUCTION OF TRANSPORT CHAGES FOR DTS 101 TO 350 KMS	MT
6	EXTRA	E07Z	DEDUCTION OF TRANSPORT CHAGES FOR DTS 351 TO 450	MT
7	EXTRA	E11	25 MIC OF EPOXYZINC RICH PRIMER [EXCEPT WM XXX]	SM
8	EXTRA	E14	40 MIC OF WHITE ENAMEL PAINT TO IS2932	SM
9	EXTRA	E16	25 MIC OF HEAT RESISTANT BLACK BITUMINOUS PAINT TO IS-158	SM
10	EXTRA	E17A	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED WITH IN 60 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/BLAST CLEANING / BALANCING / HEATTREATMENT / OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY.	MT
11	EXTRA	E17B	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED BETWEEN 61 KMS AND 160 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/BLAST CLEANING /BALANCING/HEATTREATMENT/ OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY	MT
12	EXTRA	E17C	TRANSPORT CHARGES FOR TO AND FRO MOVEMENT OF SEMIFINISHED COMPONENTS FROM YOUR WORKS TO THE WORKS OF CONTRACTOR SITUATED BETWEEN 161 KMS AND 350 KMS FROM YOUR WORKS DOING THE INTERMITTENT OPERATION SUCH AS GALVANIZING/ BLAST CLEANING/ BALANCING/ HEATTREATMENT/ OTHER SPECIFIC OPERATION ETC AS PER ENQUIRY	MT
13	EXTRA	E18	40 MIC OF HIGH BUILD CHLORINATED RUBBER ZINCPHOSPHATE PRIMER.	SM
14	EXTRA	E19	5 MIC OF ETCH PRIMER/WASH PRIMER	SM
15	EXTRA	E20	20 MIC OF SYNTHETIC ENAMEL LONG OIL ALKYD TOIS-2932 [SMOKE GREY AND OTHER SHADES]	SM
16	EXTRA	E23	25 MIC RUST PREVENTIVE OIL	SM
17	EXTRA	E24	20 MIC BLACK ENAMEL PAINT TO IS - 2932	SM
18	EXTRA	E27	50 MIC HIGH BUILD EPOXY PAINT TO IS14209 DARK GREY AND OTHER SHADES	SM

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SL NO.	RS GROUP	RS NO.	DESCRIPTION	UNIT
19	EXTRA	E28	40 MIC EPOXY FINISH PAINT LIGHT GREY AND OTHER SHADES	SM
20	EXTRA	E29	75 MIC INORGANIC ZINC SILICATE PRIMER TO IS14946	SM
21	EXTRA	E30	30 MIC CHLOROKOTE ZINC PHOSPHATE TO IS 8632.	SM
22	EXTRA	E40	TRIAL ASSY OF TOTAL INLET/OUTLET FUNNEL ASSY[PYRAMID SHAPE] COLUMNS, LONGITUDINAL ROOF BEAMS, TRUSSES (X55), SPIRALCASINGS, TURBINE HALL STRUCTURES, DUCTS ,SILENCERS (ASSEMBLED FROM MULTIPLE BLOCKS), BRACKETS IN X25, SUCTION HOOD OF FANS AND ROOF ASSEMBLY OF FANS ETC.	MT
23	EXTRA	E41	RECOVERY RATE FOR CS/AS, ASBESTOS , WOOL , CAF SCRAP ETC.	MT
24	EXTRA	E42	BIG SIZE SCRAP [CS/AS SHEETS/ PLATES]	MT
25	EXTRA	E43	RECOVERY RATE FOR STAINLESS STEEL [NON-MAGNETIC], NON-FERROUS METAL SCRAP.	MT
26	EXTRA	E51	HR ALUMINIUM PAINT [20 MIC] [UP TO 200 DEGREE C] IS 13183 / 1991 GRADE - III	SM
27	EXTRA	E52	HR ALUMINIUM PAINT [20 MIC] [ABOVE 200 DEGREE C] C]IS 13183 / 1991 GRADE - II	SM
28	EXTRA	E54	HR CHIMNEY BLACK PAINT [>250 DEGREE C] / FERROTOL BLACK CHIMNEY [50 MIC]	SM
29	EXTRA	E55	EPOXY HB MIO TO IS14209 INTERCOAT [125 MIC]	SM
30	EXTRA	E56	ALIPHATIC PU FINISH TO IS13213 OR EQVT. [75 MIC]	SM
31	EXTRA	E57	CHLORINATED RUBBER FINISH PAINT DARK GREY [40 MIC]	SM
32	EXTRA	E59	ETHYL ZINC SILICATE/ZINC DUST ETHYL SILICATE[75 MIC]	SM
33	EXTRA	E60	HB EPOXY ZINC RICH PRIMER [50 MIC]	SM
34	EXTRA	E61	CHLORINATED RUBBER BASED TITANIUM OXIDE PIGMENTED INTERMEDIATE PAINT [WHITE] - [50 MIC]	SM
35	EXTRA	E62	EPOXY RESIN BASED TWO PACK, TITANIUM OXIDEPIGMENTED INTER- MEDIATE PAINT [WHITE] -[100 MIC]	SM
36	EXTRA	E63	ZINC CHROME PRIMER IS104 40 MICRONS	SM
37	EXTRA	E64	RED OXIDE ZINC PHOSPHATE PRIMER 80 MICRONS	SM
38	EXTRA	E65	UT OF WELD,BUTT JOINTS OR FILLET WELDS OF COLUMN BASE [ALL WELDS] THICKNESS 12 TO 32MM ASPER AWS D.1.1	MR
39	EXTRA	E68	LABOUR COST FOR ONE COAT OF PAINTING. [PAINT- BHEL SUPPLY].	SM
40	EXTRA	E69	SYNTHETIC ENAMEL TO IS 2932 GREY SHADE RAL 9002 [20 MICRONS].	SM
41	EXTRA	E71	ULTRASONIC TESTING [UT] OF PLATES / STRUCTURALS	SM
42	EXTRA	E72	CONVERSION CHARGES FOR EXPORT PACKING [FOR FINISHED COMPONENT WEIGHT [DU WEIGHT]	MT
43	EXTRA	E73	RECOVERY RATE FOR STAINLESS STEEL [MAGNETIC] SCRAP	MT
44	EXTRA	E76	CONVERSION CHARGES FOR STRUCTURALS TO STRUCTURALS	MT
45	EXTRA	E77	JOINTS OF CS/ HIGH TENSILE PLATES UPTO 4 MM/RM	MR
46	EXTRA	E78	JOINTS OF CS/HIGH TENSILE PLATES 5MM TO 10 MM/RM	MR
47	EXTRA	E79	JOINTS OF PLATES 12 TO 20 MM /RM	MR
48	EXTRA	E80	JOINTS OF BEAM/CHANNEL UPTO 200 MM /JT.	NO
49	EXTRA	E81	JOINTS OF BEAM/CHANNEL 201MM - 300 MM /JT.	NO
50	EXTRA	E82	JOINTS OF BEAM/CHANNEL 301- 450 MM /JT.	NO
51	EXTRA	E83	JOINTS OF ANGLES UPTO 75X75X8	NO
52	EXTRA	E84	JOINTS OF ANGLES ABOVE 75X75X8 UPTO 100X100X12	NO
53	EXTRA	E85	JOINTS OF ANGLES ABOVE 100X100X12	NO
54	EXTRA	E86	JOINTS IN BEAM /CHANNEL ABOVE 450 MM	NO
55	EXTRA	E87	ADDITIONA JOINTS FOR PLATES 21-25 MM/RM	MR
56	EXTRA	E88	ADDITIONAL JOINTS FOR PLATES 26-32MM/RM	MR
57	EXTRA	E89	ADDITIONAL JOINTS FOR PLATES 33-36 MM /RM	MR

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SL NO.	RS GROUP	RS NO.	DESCRIPTION	UNIT
58	EXTRA	E90	ADDITIONAL JOINTS FOR PLATES 37-40 MM/RM	MR
59	EXTRA	E91	ADDITIONAL JOINTS FOR PLATES 41 - 50 MM /RM	MR
60	EXTRA	E92	ADDITIONAL JOINTS FOR PLATES 51-56 MM /RM	MR
61	EXTRA	E93	ADDITIONAL JOINTS FOR PLATES 57 MM AND ABOVE/RM	MR
62	EXTRA	E94	CHLORINATED RUBBER FINISH PAINT (RAL)- 40 MICRONS	SM
63	EXTRA	E95	TESTING CHARGES OF GATE/DAMPER ASSEMBLY ELECTRICALLY / PNEUMATICALLY OPERATED UPTO 7 MT	NO
64	EXTRA	E96	TESTING CHARGES OF GATE / DAMPER ASSY ELECTRICALLY / PNEUMATICALLY OPERATED ABOVE 7 AND UPTO 10 MT.	NO
65	EXTRA	E97	TESTING CHARGES OF GATE ASY ELECTRICALLY OPERATED ABOVE 10 MT.	NO
66	EXTRA	E98	EXTRA CHARGES PAYABLE FOR FIXING OF BULB SEALS (BULB SEALS ISSUED AS FREE BY BHEL)	MT
67	EXTRA	E99	JOINTS OF Stainless Steel PLATES UPTO 4 MM/RM	MR
68	EXTRA	E100	JOINTS OF Stainless Steel PLATES 5 mm TO 10 MM/RM	MR
69	EXTRA	E102	PAINTING - ZINC PHOSPHATE PRIMER - GREY SHADE 40 MICRONS	SM
70	EXTRA	E103	% for full CORTEN - A material fabrication - all Rate schedules in GEN, CHIM A, B and C	%
71	EXTRA	E104	TITANIUM DUCT WELDING	MR
72	EXTRA	E105	EPOXY GLASS FLAKE PAINT TO 125 MIC	SM
73	EXTRA	E106	HIGH BUILD CHLORINATED RUBBER BASED INTERMEDIATE PAINT 60MIC	SM
74	EXTRA	E107	COMMERICAL BLASTING TO SA2	SM
75	EXTRA	E108	HEAT RESISTANCE ALUMINIUM PAINT (Gr -I) 400-600°C TO IS 13183 20MIC	SM

SECTION-VIII

 An ISO Company	BHARAT HEAVY ELECTRICALS LIMITED (A Government of India Undertaking) பாரதமிகுமின் நிறுவனம்	Ph: 04172-284030, 284323, 241120 Email: bsmanian@bhel.in
	BOILER AUXILIARIES PLANT, Indira Gandhi Industrial Complex,	
	RANIPET- 632 406 (Tamil Nadu)	

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SECTION – VIII - List of Approved vendors for (A) Welding Consumable ,Paints, Penetrant Chemicals and (B) Conducting NDT, Galvanising and Heat Treatment

Ref	Description	Page No
1	List of approved welding Consumables Suppliers	01 to 27
2	List of approved Paint Suppliers	01 to 03
3	List of approved Suppliers for Penetrant Chemicals	01 to 05
4	List of approved NDT vendors	01 to 05
5	List of approved Galvanizing Vendor	01 to 01
6	List of approved Blasting vendor	01 of 01
7	List of approved Heat Treatment Vendor	01 to 04

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
DRMFL	WELDING FLUX-DRUM	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		11712	TAPADIA ENGINEERS & TRADERS P.LTD.	2, INDUSTRIAL ESTATE,BHANPURI, CHATTISGARH.RAIPUR	tet_tgirpr@rediffmail.com	0770 - 4090636
FINFL	WELDING FLUX-FIN	11712	TAPADIA ENGINEERS & TRADERS P.LTD.	2, INDUSTRIAL ESTATE,BHANPURI, CHATTISGARH.RAIPUR	tet_tgirpr@rediffmail.com	0770 - 4090636
		19371	NDT FLUXES.	SURAJ,35,VIVEKANANDA NAGAR,RAIPUR		
GVW01	WELDING ELECTRODES	11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		80019	ESAB INDIA LTD.	KIRTI NAGAR		
		80018	D & H INDIA LIMITED	182/75, INDUSTRIAL AREA PH- 1CHANDIGARH	dnhindiachd@yao.co.in	0172- 2653063
		80020	HONAVAR ELECTRODES PVT LTD	Industrial Complex, 9, LBS Marg, Kurla (West)Mumbai	honavarelectrodes@gmail.com	9820249301
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		80291	Bharat Heavy Electricals Limited ,T	TiruvaramburTrichy		
		80218	M/s Modi Arc Electrodes Co.	G.T. Road, Oil Mill Gate, Modinagar		
		80126	Ador Welding Limited	C-116, Naraina Industrial Area, Phase-1New Delhi	delhi@adorwelding.com	1141411049
10936	AHURA WELDING ELECTRODE MANUFACTURE	SF 139 & 144/3 THIRUMALAYAMPALAYAMPALGHAT ROADPALGHAT ROADCOIMBATORE	sunarc@md2.vsnl.net.in	0422 - 822232		
GVW02	WELDING WIRE	80291	Bharat Heavy Electricals Limited ,T	TiruvaramburTrichy		
GVW03	WELDING ELECTRODE OT	80291	Bharat Heavy Electricals Limited ,T	TiruvaramburTrichy		
GVW04	COBALT POWDER	80291	Bharat Heavy Electricals Limited ,T	TiruvaramburTrichy		
GVWFX	WELDING FLUX	10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gamail.com	
		10015	ANITA FLUXES ALLOY SPECIALITY	24, 3RD PHASEPEENYA INDUSTRIAL ESTATEBANGALOREBANGALORE		080/ 839 4411
MIGA1	GMAW WIRE ER80S-B3L	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680

**SECTION - VIII
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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
MIGA2	GTAW WIRE FOR T92	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
MIGA4	ER80S-B2 BPGMAW WIRE	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
MIGN1	GMAWWIRE ERNiCRFe-7A	21991	SPECIAL METALS WELDING PRODUCTS	1401,BURRIS ROAD,NEWTON,NORTH COROLINA 28658	rphillips@smwpc.com	828-465-0352
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
MIGS1	GMW WIRE ER308H	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
MIGS2	GMAW WIRE ER309LSi	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	

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Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
MIGS3	GMAW WIRE ER309L	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
MIGW1	ER 70S-A1 GMAW WIRE	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
MIGW2	ER 80S-B2 GMAW WIRE	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dhsecheron.net	0731-4229222
MIGW3	ER 90S-B3 GMAW WIRE	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20563	BOHLER SCHWEISSTECHNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		21461	INDUSTRIA NAZIONALE ELETTRODI S.p.A	Via.FACCA 10,CITTADELLA, 35013ITALY.		
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
MIGW4	WELDG.WIRE-MIG ER347	22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN l'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		11784	VENUS WIRE INDUSTRIES PVT LTD	19, RAGHUVANSHI MILL COMPOUNDS.B.MARG, LOWER PARELMUMBAI	sales@venuswires.com	022 - 4978840
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680

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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
MIGW5	WELDG.WIRE-MIG ERNiC	22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
MIGW6	WELDG.WIRE-MIG ER90S	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
		14428	SHAKUNT ENTERPRISES PRIVATE LIMITED	G.T.ROADSANWALKA BHAWANMILLER GANJLUDHIANA	shakunt@satyam.net.in	161 2538323
		18705	MODI HITECH INDIA LTD.,	1400,MODI TOWER98,NEHRU PLACE,NEW DELHI	gmmelectrode@gmail.com	011 4250 4577
		16661	KLINWELD WIRES PVT. LTD.,	207,TIMMY ARCADE,MAKWANA NAKA, ANDHERI (EAST)MUMBAI	wires@vsnl.net	022 28504848
		17841	PRASHANTH CYLINDERS PVT. LTD.,	35-B,VEERASANDRA INDL. ESTATE,19th K.M.HOSUR ROAD,ELECTRONIC CITY POST,BANGALORE		
		17842	PRECISION DRAWEL PVT., LTD.,	KHASARA NO.221&222/2,VILLAGE TEKADI,TAH. PARSEONI,NAGPUR		
		16548	WELD EXCEL INDIA LTD.,	D-230,PHASE VII,FOCAL POINT,LUDHIANA		
		11288	JAGSHAAN INDUSTRIES	94 FRIENDS COLONYKATOL ROADNAGPUR	jagshaan@nagpur.dot.net.in	0712 - 581557
		10758	ALPHA ARC INDUSTRIES,	B-5,SECTOR A5/6 TRONICA CITYLONIGHAZIABAD, UP	alphaarc@yahoo.com	0 99114 41441
		16662	NATIONAL ENGINEERING ENTERPRISES,	C-9,1st PHASE,INDUSTRIAL AREA,ADITYAPUR,JAMSHEDPUR	nationaljsr@redifmail.com	0657 6539875
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		13763	CLASSIC ELECTRODES (INDIA) LTD.,	1, BONFIELD LANE2 ND FLOORKOLKATA	classicelectrodes@yahoo.co.in	033 22429581

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
MIGW7	GMAW WIRE ER70S-6	13743	UNIQUE WELDING PRODUCTS PVT.LTD.,	PLOT NO.1205,G.I.D.C. PHASE-IVVITTHAL UDYOGNAGAR,ANAND-388121GUJARAT	ump_vvn@rediffmail.com	02692-236 092...
		11528	RAAJRATNA ELECTRODES LTD	11, SONAROOA, OPP.LALBANGLOWC.G.ROAD, NAVARANGPURA AHMEDABAD	mktg@gnahd-rel.global.net.in	079 - 6445258
		14575	WELD ALLOY PRODUCTS,	C - 33, SECTOR - IV, NOIDANOIDA DIST.GAUTAM BUDH NAGAR (UP)	wap2005@airtelmail.in	0120-2557183
		17644	VARUN ELECTRODES PVT. LTD.,	H-56,INDUSTRIAL AREA,PANIPAT	kapoor@varunelectrodes.com	0180 2653085
		10737	SRI DHARAANI STEEL,	1060/463,SIVAKASI- VIRUDHUNAGARROAD,THIRUTHANGAL- 626130VIRUDHUNAGAR DIST.	wire@sridharaanisteel.com	98943-88857
		16575	STANDARD WIRE PRODUCTS	219, SIDCO INDUSTRIAL ESTATE,AMBATTUR,CHENNAI		044 26254946
		17813	K.M.CROWN WELDING CONSUMABLES PVT.,	BLOCK NO.16A,16B & 17A,INDUSTRIAL AREA NO.1,A.B.ROAD,DEWAS	kmcrownwelding@dataone.com	07272 259384578
		13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL HOUSE, PLOT NO.26,VILLAGE VALIV,VASAI (EAST)THANE	royalarc@vsnl.com	0250 2480520
		13693	RASI ELECTRODES LTD.,	21, RAJA ANNAMALAI ROAD,FLAT NO A / 14, THIRD FLOOR,CHENNAI	rele@airtelmail.in	044 26424523
		17814	CALCUTTA ELECTRODES PVT. LTD.,	SARDAR PATEL TIMBER MARKET,BHANPURI,RAIPUR	calcutta_electrodes2006@yahoo.com	0771 4090615
		13986	B&H ELECTRODES PVT. LTD,	VILLAGE SAIDPURA, BARWALA ROAD,DERABASSI,MOHALI		
		15085	VOLTARC ELECTRODES (P) LTD,	10-77, FIRST MAIN,ROYAL NAGAR,H.O.SURYAJYOTHI,R.C.ROAD, P.B.NO.33,TIRUPATHI	voltarc@rediffmail.com	0877 2241462
		14455	WIRE AND WIRE PRODUCTS	SIDCO INDUSTRIAL ESTATEAMBATTURCHENNAI	www@vsnl.net	044 26242378
		15810	NOUVEAUX INDUSTRIES (P) LTD.,	NO.2,SOWDAMBIGA NAGARTIRUPUR ROAD.KANGAYAM		
		14340	NALLI ARC INDUSTRIE,	SF NO. 340,NALLIPALAYAM,PADIYUR POST,KANGAYAM TALUKERODE Dt.	nalliar@yahoo.com	04257 245185
		13906	MARUTI WELD LIMITED,	I-1, KIRTI NAGARNEW DELHI	marutiweld@marutiweld.com	25913411
		15101	PRECISION WELDARC LTD,	49,B.T. ROAD, PANIHATI24,PARGANAS (NORTH) KOLKATA.	pwires@yahoo.co.in	033 25634753
		15100	MANTEK WIRES	24,SIDCO INDUSTRIAL ESTATE,P.VADUGAPALAYAM,PALLADAMCOIMBAT ORE		

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		16166	EVERSHINE WIRES	178/2-A3, THURAIYUR ROAD,PULIVALAM,MUSIRI TALUK,TRICHY	evershinewires@rediffmail.com	04327 235527
		13549	ATHARVE WELDING TECHNOLOGIES (INDIA	PVT.LTD.,A 192,M.I.D.C.CHINCHOLI,SOLAPUR	atharv.wt@hotmail.com	0217-273 7029
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		14791	ANAND ARC LTD.,	NO.22(OLD.31),RAILWAY COLONY,III STREET ,AMINJIKARAI,CHENNAI		044 23746379
		10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gamail.com	
		13487	MAGNARC ELECTRODES PVT.LTD.,	PENDUTHIVISAGAPATNAM	magnarc@hotmail.com	0891-276 4381...
		13211	D&H INDIA LIMITED	PLOT 'A', SECTOR 'A'INDUSTRIAL AREA,SANWER ROADINDORE	dhindia@sancharnet.in	0731-4273501-...
		14458	M W WIRETECK PVT. LTD.	GF-9, GURU ARJUN DEV BHAWAN,RANJIT NAGAR COM. CMPLX,NEW DELHI.	wire@wireteck.in	011 4540 7712
		13690	GEE LIMITED,	PLOT E-1, ROAD NO. 7,WAGLE INDUSTRIAL ESTATETHANE		
MIGW8	GMAW WIRE ER80S-G	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
MIGW9	GMAW WIRE ER90S-G	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
MIGWA	GMWA WIRE FOR T23.	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
P91FL	WELDING FLUX-P91	22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
P92FL	SAWFLUX FOR SA335P92	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
SAWA1	SAWWIRE FOR SA335P92	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
SSOFL	WELD:SS-OVERLAY FLUX	10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gmail.com	
		10015	ANITA FLUXES ALLOY SPECIALITY	24, 3RD PHASEPEENYA INDUSTRIAL ESTATEBANGALOREBANGALORE		080/ 839 4411
		13833	SUN FLUX,	PUTHUKUDI ROAD,RAYAMUNDANPATTITANJORE		
		15082	ROYAL WELDING WIRES PVT. LTD.,	7,KARANAI PUDUCHERRY VILLAGE,VIA.URAPAKKAM,KANCHIPURAM DIST,	royal@royalwires.co.in	044-3741 1610
		12184	LAKSHMI CHEMICAL INDUSTRIES	D-52, DEVELOPED PLOT ESTATETHUVAKUDITIRUCHIRAPALLI	lakshmi.chem@yahoo.com	9842550538
		13534	RUPA INDUSTRIES,	2-2-105 to 180/10,GANESH CHAMBERSRANIGUNJ,SECUNDERABAD	rupaent@vsnl.net	040-2771 3714
		13484	OSCAR AUTO FLUX,	3/216,INAMKULATHUR ROAD,AMMAPETTAI,POOLANGULATHUPATTY(PO), TRICHY	oscarautoflux@gmail.com	0431-2914567
		13691	MANTEK WELDAIDFLUX CO.	32, FIRST STREETGANDHI NAGARTHIRUVERUMBURTIRUCHIRAPPALLI	mantek@eth.net	2501540
		14593	R.M.H.CHEMICAL INDUSTRIES	C-12-A,DEVELOPED PLOTS ESTATE,THUVAKUDY,TIRUCHIRAPALLY	rmhfbbricators@vsnl.net	2500498

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
STRFL	SAW FLUX STRUCT.WELD	14309	S.CHEMS & ALLIED PRODUCERS PVT LIMI	PLOT NO.197,JANKIDEVI SCHOOL ROAD,MHADA BUNGALOW CSHEME,Nr. VARSOVA TEL. EXCHANGE,ANDHERI (W)MUMBAI	s chems@yahoo.co.in	022 26368557
		11701	SUPER WELD PRODUCTS	91/1 THINNANUR ROADPULIVALAM,MUSIRI TKTIRUCHIRAPALLI		0431 - 765626
		19114	WELMET TECHNOLOGIES PVT. LTD.,	34,P.N.MAIDU INDUSTRIAL ESTATE,M.I.D.C. HINGNA,NAGPUR		
		10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gamail.com	
		15099	THERMIT ALLOYS (P) LTD,	PLOT NO.7, INDUSTRIAL ESTATE,B.H.ROAD,SHIMOGA	thermit@vsnl.net	08182 250431
		17381	NOUVEOFLUX CHEMICAL COMPANY	1 /B 83 & 85, TIRUPUR ROADKANGAYAM		
		13211	D&H INDIA LIMITED	PLOT 'A', SECTOR 'A'INDUSTRIAL AREA,SANWER ROADINDORE	dhindia@sancharnet.in	0731-4273501-...
		11712	TAPADIA ENGINEERS & TRADERS P.LTD.	2, INDUSTRIAL ESTATE,BHANPURI, CHATTISGARH.RAIPUR	tet_tgirpr@rediffmail.com	0770 - 4090636
		13486	A V WELDTECH PVT.LTD.,	NO.206/12,CIVIL LINES,NEAR G.P.O. SQUARENAGPUR.	products@aveasyweld.com	0712-252 1727
		11288	JAGSHAAN INDUSTRIES	94 FRIENDS COLONYKATOL ROADNAGPUR	jagshaan@nagpur.dot.net.in	0712 - 581557
		15084	DWEKAM ELECTRODES LTD,	TALAWALI CHANDA,A.B.ROAD, P.O.MANGILAINDORE (MP)	vk.khandelwal@dwkam.org	0731 422 9500...
		15085	VOLTARC ELECTRODES (P) LTD,	10-77, FIRST MAIN,ROYAL NAGAR,H.O.SURYAJYOTHI,R.C.ROAD, P.B.NO.33,TIRUPATHI	voltarc@rediffmail.com	0877 2241462
		19695	SUBMER FLUX TECHNOLOGIES,	178/2A1,THURAIYUR ROAD,PULIVALAM,TRICHY		
		10466	SUN AUTO WELD INDUSTRIES,	SF NO.137/2,GANAPATHY NAGAR,ARIYAMANGALAM,TRICHY		
		19735	RENUKA FLUXES COMPANY,	3-227 - A, SEMMANKUDAL (PO),OMALUR TALUK,SALEM		04290 313331
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
14791	ANAND ARC LTD.,	NO.22(OLD.31),RAILWAY COLONY,III STREET,AMINJIKARAI,CHENNAI		044 23746379		
15101	PRECISION WELDARC LTD,	49,B.T. ROAD, PANIHATI24,PARGANAS (NORTH)KOLKATA.	pwires@yahoo.co.in	033 25634753		

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		11528	RAAJRATNA ELECTRODES LTD	11, SONAROOPA, OPP.LALBANGLOWC.G.ROAD, NAVARANGPURA AHMEDABAD	mktg@gnaht-rel.global.net.in	079 - 6445258
TIGA1	GTAW ROD - T92 / P92	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
TIGA2	GTAW ROD ER80S-B3L	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN L'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
TIGS1	GTAW ROD ER316H	20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA- CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
TIGS2	GTAW ROD ER309L	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA- CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN L'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
TIGS3	GTAW ROD ER308H	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA- CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
TIGW1	ER 70S-A1 GTAW ROD	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		15083	MARUTHI ELECTRODES (P) LTD.,	138,5TH FLOOR,MARUTHI TOWERAIRPORT ROAD,KODIHALU,BANGALORE	meplelec@bgl.vsnl.net.in	080 25275848
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		22456	I.A.BARNES & CO. LTD,	UNIT E,GUNNELS WOOD PARK,GUNNELS WOOD ROAD,STEVENAGE, HERTFORDSHIRE, SG1 2BH,		
TIGW2	ER 80S-B2 GTAW ROD	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		21461	INDUSTRIA NAZIONALE ELETTRODI S.p.A	Via.FACCA 10,CITTADELLA, 35013ITALY.		
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
TIGW3	ER 90S-B3 GTAW ROD	21461	INDUSTRIA NAZIONALE ELETTRODI S.p.A	Via.FACCA 10,CITTADELLA, 35013ITALY.		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
TIGW4	WELDG.WIRE-TIG ER347	20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
TIGW5	WELDG.WIRE-TIG ERNiC	20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		15083	MARUTHI ELECTRODES (P) LTD.,	138,5TH FLOOR,MARUTHI TOWERAIRPORT ROAD,KODIHALU,BANGALORE	meplelec@bgl.vsnl.net.in	080 25275848
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
TIGW7	WELDG.WIRE - TIG ER9	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN L'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
TIGW9	ER80S - D2 GTAW ROD	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
TIGWA	GTAW ROD T23 / P23	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
TIGWR	GTAW ROD SUPER301H	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		

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TIGWB	GTAW ROD	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
TIGWD	GTAW ROD	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21991	SPECIAL METALS WELDING PRODUCTS	1401,BURRIS ROAD,NEWTON,NORTH COROLINA 28658	rphillips@smwpc.com	828-465-0352
WCA08	WELDG.ELECTRODES:SMA	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		15090	RAJ KESARI ELECTRODES,	35,RAVINDRA NAGAR,(PRATAP NAGAR)UDAIPUR	rajkesari@yahoo.com	0294 2490193
WCA10	WELDG.ELECTRODES:SMA	14040	MANTEK ELECTRODS PRIVATE LTD,	D-74A, DEVELOPED PLOT ESTATE,THUVAKUDITRICHY		2501540
		13690	GEE LIMITED,	PLOT E-1, ROAD NO. 7,WAGLE INDUSTRIAL ESTATETHANE		
		18705	MODI HITECH INDIA LTD.,	1400,MODI TOWER98,NEHRU PLACE,NEW DELHI	gmmelectrode@gmail.com	011 4250 4577
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		11420	MODI ARC ELECTRODES CO.	MODINAGARUTTAR PRADESHGHAZIABAD	modiarc@ndb.vsnl.net.in	01232 - 242427
WCA12	WELDG.ELECTRODES:SMA	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317
		13690	GEE LIMITED,	PLOT E-1, ROAD NO. 7,WAGLE INDUSTRIAL ESTATETHANE		
		11420	MODI ARC ELECTRODES CO.	MODINAGARUTTAR PRADESHGHAZIABAD	modiarc@ndb.vsnl.net.in	01232 - 242427
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301

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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
WCA23	SMAW ELECTRODE E9015	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
WCA24	SMAW ELECTRD T23/P23	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
WCA25	SMAW ELECD - T92/P92	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESSY,SURREY KT169LL,		
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
WCA26	SMAW ELEC E8018-B3L	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317
WCA27	SMAW ELEC E7018-B2L	11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		15080	SUNCRAFT ELECTRODES	BYE PASS ROAD,MUSIRI		04326 60525
		15085	VOLTARC ELECTRODES (P) LTD,	10-77, FIRST MAIN,ROYAL NAGAR,H.O.SURYAJYOTHI,R.C.ROAD, P.B.NO.33,TIRUPATHI	voltarc@rediffmail.com	0877 2241462
		18433	NUCOR WELD(INDIA)PVT.LTD.,	NO.223,KONAPPANA AGRAHARA,ELECTRONIC CITY POST,BANGALORE	nuکورweldinida@yahoo.com	080-2852 2057
		15083	MARUTHI ELECTRODES (P) LTD.,	138,5TH FLOOR,MARUTHI TOWERAIRPORT ROAD,KODIHALU,BANGALORE	mepolec@bgl.vsnl.net.in	080 25275848

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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		11881	FUSION ENGG. PRODUCTS LTD.,	B-16,Vith PHASE, POST.GAMARIA(JAMSHEDPUR)SERAIKELA- KHARSAWAN,GAMARIA	info@fusionweld.co.in	0657-6542444
		13538	WELDCOM ELECTRODES PVT.LTD.,	T-357,ASHIRWAD PALACENR.BHATAR CHAR RASTA,JIVKOR NAGAR,SURAT		0261-305 4555
		13693	RASI ELECTRODES LTD.,	21, RAJA ANNAMALAI ROAD,FLAT NO A / 14, THIRD FLOOR,CHENNAI	rele@airtelmail.in	044 26424523
		15102	SOLARC WELD RODS,	OLD NO.12,NEW NO.14,65th STREET12th AVENUE,ASHOK NAGAR,CHENNAI	soarcweldrods@gmail.com	044-24891173
		15081	ANNAI SIVAKAMI AMMAL INDUSTRIES,	5/1C,M.M.K.COMPLEX,(OPP. TO S.I.T.)ARIYAMANGALAM.TIRUCHIRAPALLY		0431 2441696
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		13663	ORION WIRE MANUFACTURING CO.,	POST BOX NO.7,PLOT NO.56A & 44A,GIDC ESTATE,NARNADA NAGAR,BHARUCH	info@sunarcindia.com	02462-246419
		17820	SETH ELECTRODES PVT. LTD.,	SHRIMANT BHAWAN,KHURAI	sepl@sethindia.com	07581 240704
		11380	MALU ELECTRODES PVT.LIMITED	111, RAMAKRISHNA APPARTMENT,CHHAPRU NAGAR SQUARE,CENTRAL AVENUE NAGAR,NAGPUR	meploffice@rediffmail.com	0712 - 2734895
		11420	MODI ARC ELECTRODES CO.	MODINAGARUTTAR PRADESHGHAZIABAD	modiarc@ndb.vsnl.net.in	01232 - 242427
		17661	ALPHA WELDING & ALLIED	#B-10,VEERASANDRA INDUSTRIALESTATE, HOSUR ROAD,BANGALORE		
		17664	ELMARC ELECTRODES PVT. LTD.,	118,SISIDCO INDUSTRIAL ESTATE,AMBATTUR,CHENNAI		
		17813	K.M.CROWN WELDING CONSUMABLES PVT.,	BLOCK NO.16A,16B & 17A,INDUSTRIAL AREA NO.1,A.B.ROAD,DEWAS	kmcrownwelding@dataone.com	07272 259384578
		17812	VICTOR ELECTRODES LIMITED ,	T-1/ 113-114,MANGOLPURI INDUSTRIAL AREA,PHASE - I,NEW DELHI	victor@del2.vsnl.net.in	011 43860025
		17802	SRI VARSHA ELECTRODES,	SHED NO. 55,PHASE V,SIDCO INDUSTRIAL ESTATE,KAKKALUR,THIRUVALLUR DIST.CHENNAI		0 98402 60618
		17643	SUNDEEP ELECTRODES PVT. LTD.,	BULANSHAHAR ROAD,HAPUR		
		17801	JAIN WELDING ELECTRODES PVT. LTD,	G-1-318(C).INDRAPRASTHA INDUSTRIAL AREA,ROAD NO.6,RAJASTHAN,KOTA	info@jainelectrodes.com	0744 2490177
		11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317

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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
WCC01	WELDG.ELECTRODES:SMA	13729	ORANGE ELECTRODES INDUSTRIES,	PLOT NO.9,SHIV SHAKTI LAGHU UDYOGSANKUL,OPP.NEEL ENGG.CO.MUMBAI-NASIK HIGHWAY,ASANGAON	orangeelectrodes@gmail.com	02527-271 995
		13690	GEE LIMITED,	PLOT E-1, ROAD NO. 7,WAGLE INDUSTRIAL ESTATETHANE		
		15087	V.N.C.ELECTRODEES,	3, INDUSTRIAL ESTATE,S.VELLALAPATTIKARUR	kru_vnc@sancharnet.in	04324 242774
		19906	BAGHERWAL ELECTRODES PVT.LTD.,	20-23,VAIBHAV CHAMBER,7/1,USHAGANJ CHHAWANI,INDORE	bagherwal13@yahoo.com	0731-2905067
		13986	B&H ELECTRODES PVT. LTD,	VILLAGE SAIDPURA, BARWALA ROAD,DERABASSI,MOHALI		
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		19875	ABIRAMI ELECTRODES,	SF NO.107-A,SARAVANAMPATTI ROAD,VELLAIKINARU,COIMBATORE	sun_weld@yahoo.com	0422 3232724
		14457	BALAJI ELECTRODES	4A / 1A, N.G. NARAYANASAMY STREET,NEW SIDHAPUDUR (PO),COIMBATORE.	sonyaarc6013@gmail.com	0422 438 7817
		19751	FINE WELD ELECTRODESS INDIA (P)LTD.	2/630,PERUMAL KOIL THOTTAM,VENKATAPURAM (PO),COIMBATORE	fineweldcbe@yahoo.com	0422-6581990/...
		19745	MEGA WELD TECHNOLOGIES,	3/219,AVINASHI ROAD,NEELAMBUR (PO),COIMBATORE	megaweldcbe@yahoo.com	0422-658 1989
		14449	IDEAL ELECTRODES	7 - A, SITRA ROAD,KALAPPATTI,COIMBATORE.	idealelectrode@gmail.com	0422 262 7710
		14447	UPARC ELECTRODES COMPANY.	BEHIND NAV BHARAT INTER COLLEGE,KHASRA No.1, INDIRA PURAM COLONY,PARTAPUR,MEERUT.		0121 244 0203
		10667	EUREKA SYSTEMS AND ELECTRODES P.LTD	11/15A,SELVARAJAPURAM,CHINTHAMANIPUDUR, COIMBATORE	info@eurekaelectrodes@gmail.com	0422-268 7199...
		12893	RUKHMANI ELECTRODES PVT.LTD.,	31,THAKURPUKUR (N.W) ROAD,P.O.BADU,DIST:24 PARGANAS(N)KOLKATA	rukhmanielectrodes@rediffmail.com	033-2526 2039
		14448	BRIGHT WELD TECHNOLOGIES	9 / 9, SAKTHI NAGAR,UPPILIPALAYAM POST,COIMBATORE.	brigtweld13@gmail.com	0422 257 4756
		10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gamail.com	
15086	SRI RENGA ELECTRODES (P) LTD,	137/3, GANAPATHY NAGAR,ARIYAMANGALAMTRICHY		0431-25501173		

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Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL HOUSE, PLOT NO.26,VILLAGE VALIV,VASAI (EAST)THANE	royalarc@vsnl.com	0250 2480520
		11528	RAAJRATNA ELECTRODES LTD	11, SONAROOA, OPP.LALBANGLOWC.G.ROAD, NAVARANGPURA AHMEDABAD	mktg@gnahd-rel.global.net.in	079 - 6445258
		17644	VARUN ELECTRODES PVT. LTD.,	H-56,INDUSTRIAL AREA,PANIPAT	kapoor@varunelectrodes.com	0180 2653085
		17814	CALCUTTA ELECTRODES PVT. LTD.,	SARDAR PATEL TIMBER MARKET,BHANPURI,RAIPUR	calcutta_electrodes2006@yahoo.com	0771 4090615
		19111	SPECTRA SUPER ALLOYS LTD,	324 / 325, 3RD FLOOR,ASHIANA TRADE CENTER,ADITYAPUR,JAMSHEDPUR	ss_alloys@yahoo.co.in	0657 6577148
		18846	COSMOS ELECTRODES PVT., LTD,	9/2,KIBE COMPOUND,CHHOTI GEALTOLI CHOURAHA,INDORE		0731 2707946
		18705	MODI HITECH INDIA LTD.,	1400,MODI TOWER98,NEHRU PLACE,NEW DELHI	gmmelectrode@gmail.com	011 4250 4577
		10758	ALPHA ARC INDUSTRIES,	B-5,SECTOR A5/6 TRONICA CITYLONIGHAZIABAD, UP	alphaarc@yahoo.com	0 99114 41441
		18300	SUPERON SCHWEISSTECHNIK INDIA LTD.,	191-D,SECTOR-IV,PHASE-II,IMT MANESAR,GURGAON,HARYANA		011-24647199
		15089	WELDCRAFT PRIVATE LIMITED,	72, INDUSTRIAL SUBURB,2ND STAGE, TUMKUR ROAD,BANGALORE.	weldcraft@vsnl.net	080 3373351
		18597	SHIELDARC EQUIPMENTS PVT. LTD,	85,ELLIOT ROAD,KOLKATA		
		18540	KOLLIPARA ELECTRODES PVT.LTD.,	KRISHNA NAGAR,PENAMALURUKRISHNA DIST.(AP)		
		14575	WELD ALLOY PRODUCTS,	C - 33, SECTOR - IV, NOIDANOIDA DIST.GAUTAM BUDH NAGAR (UP)	wap2005@airtelmail.in	0120-2557183
		14429	ALPHA FLUX & ELETRODES,	178/2-A2,THURAIYUR ROAD,PULIVALAM, MUSIRI - T.K.TRICHY DISTRICT	t.vasanthan@sify.com	04327 294169
		13211	D&H INDIA LIMITED	PLOT 'A', SECTOR 'A'INDUSTRIAL AREA,SANWER ROADINDORE	dhindia@sancharnet.in	0731-4273501-...
		14040	MANTEK ELECTRODS PRIVATE LTD,	D-74A, DEVELOPED PLOT ESTATE,THUVAKUDITRICHY		2501540
		13906	MARUTI WELD LIMITED,	I-1, KIRTI NAGARNEW DELHI	marutiweld@marutiweld.com	25913411
		13763	CLASSIC ELECTRODES (INDIA) LTD.,	1, BONFIELD LANE2 ND FLOORKOLKATA	classicelectrodes@yahoo.co.in	033 22429581
		15088	NIVETHA ELECTRODES,	195,PUDUKKOTTAI ROAD,TAMILNADU TANNREY'S BUILDING,SEMPATTU,TIRUCHIRAPALLY		0431 2341377
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		13549	ATHARVE WELDING TECHNOLOGIES (INDIA	PVT.LTD.,A 192,M.I.D.C.CHINCHOLI,SOLAPUR	atharv.wt@hotmail.com	0217-273 7029

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Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		13487	MAGNARC ELECTRODES PVT.LTD.,	PENDUTHIVISAGAPATNAM	magnarc@hotmail.com	0891-276 4381...
		14523	JINDAL DUROWELD	BN / 19 & 20,KALUNGA INDL. ESTATE,ROURKELA.	jdplrkl@yahoo.co.in	0661 266 0621
		15082	ROYAL WELDING WIRES PVT. LTD.,	7,KARANAI PUDUCHERRY VILLAGE,VIA.URAPAKKAM,KANCHIPURAM DIST,	royal@royalwires.co.in	044-3741 1610
		15090	RAJ KESARI ELECTRODES,	35,RAVINDRA NAGAR,(PRATAP NAGAR)UDAIPUR	rajkesari@yahoo.com	0294 2490193
		14584	SUN ELECTRODE	SF No.119/3, RAYAMUNDANPATTI,PUDHUKUDI ROAD,TANJORE.	sunenterprises2011@gmail.com	0 88256 36464
		14534	AARYA ELECTRODES PVT.LTD.	JOHN'S MILL NO.3,JEONI MANDI,AGRA.	vibhor@aaryaelectrodes.com	0562 262 2121
		18433	NUCOR WELD(INDIA)PVT.LTD.,	NO.223,KONAPPANA AGRAHARA,ELECTRONIC CITY POST,BANGALORE	nucorweldinida@yahoo.com	080-2852 2057
		18846	COSMOS ELECTRODES PVT., LTD,	9/2,KIBE COMPOUND,CHHOTI GEALTOLI CHOURAHA,INDORE		0731 2707946
		13487	MAGNARC ELECTRODES PVT.LTD.,	PENDUTHIVISAGAPATNAM	magnarc@hotmail.com	0891-276 4381...
		11380	MALU ELECTRODES PVT.LIMITED	111, RAMAKRISHNA APPARTMENT,CHHAPRU NAGAR SQUARE,CENTRAL AVENUE NAGAR,NAGPUR	meploffice@rediffmail.com	0712 - 2734895
		11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317
		15102	SOLARC WELD RODS,	OLD NO.12,NEW NO.14,65th STREET12th AVENUE,ASHOK NAGAR,CHENNAI	soarcweldrods@gmail.com	044-24891173
		15086	SRI RENGHA ELECTRODES (P) LTD,	137/3, GANAPATHY NAGAR,ARIYAMANGALAMTRICHY		0431-25501173
		18432	VIJEY ELECTRODES AND WIRES PVT.	83/1,THIRUNEERMALAI ROAD,NAGELKENI, CHROMPET,CHENNAI	vject@yahoo.co.in	044-2238 1098
		19305	MURLI ELECTRODE PVT. LTD,	EL. 30,M.I.D.C.INDUSTRIAL ESTATE,HINGNA ROAD,NAGPUR	sudhir_0408@rediffmail.com	0712 2769347
		18540	KOLLIPARA ELECTRODES PVT.LTD.,	KRISHNA NAGAR,PENAMALURUKRISHNA DIST.(AP)		
		18705	MODI HITECH INDIA LTD.,	1400,MODI TOWER98,NEHRU PLACE,NEW DELHI	gmmelectrode@gmail.com	011 4250 4577
		15085	VOLTARC ELECTRODES (P) LTD,	10-77, FIRST MAIN,ROYAL NAGAR,H.O.SURYAJYOTHI,R.C.ROAD, P.B.NO.33,TIRUPATHI	voltarc@rediffmail.com	0877 2241462

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
WCC05	WELDG.ELECTRODES:SMA	15091	MAGNA ENGINEERING	CHINNAVUTAPALLIGANAVARAM MANDAL,VIJAYAWADA		08676 252181
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		17643	SUNDEEP ELECTRODES PVT. LTD.,	BULANSHAHAR ROAD,HAPUR		
		13763	CLASSIC ELECTRODES (INDIA) LTD.,	1, BONFIELD LANE2 ND FLOORKOLKATA	classicelectrodes@yahoo.co.in	033 22429581
		16548	WELD EXCEL INDIA LTD.,	D-230,PHASE VII,FOCAL POINT,LUDHIANA		
		10758	ALPHA ARC INDUSTRIES,	B-5,SECTOR A5/6 TRONICA CITYLONIGHAZIABAD, UP	alphaarc@yahoo.com	0 99114 41441
		12893	RUKHMANI ELECTRODES PVT.LTD.,	31,THAKURPUKUR (N.W) ROAD,P.O.BADU,DIST:24 PARGANAS(N)KOLKATA	rukhmanielectrodes@rediffmail.com	033-2526 2039
		18300	SUPERON SCHWEISSTECHNIK INDIA LTD.,	191-D,SECTOR-IV,PHASE-II,IMT MANESAR,GURGAON,HARYANA		011-24647199
		10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gamil.com	
		14575	WELD ALLOY PRODUCTS,	C - 33, SECTOR - IV, NOIDANOIDA DIST.GAUTAM BUDH NAGAR (UP)	wap2005@airtelmail.in	0120-2557183
		15083	MARUTHI ELECTRODES (P) LTD.,	138,5TH FLOOR,MARUTHI TOWERAIRPORT ROAD,KODIHALU,BANGALORE	meplelec@bgl.vsnl.net.in	080 25275848
		15089	WELDCRAFT PRIVATE LIMITED,	72, INDUSTRIAL SUBURB,2ND STAGE, TUMKUR ROAD,BANGALORE.	weldcraft@vsnl.net	080 3373351
		13906	MARUTI WELD LIMITED,	I-1, KIRTI NAGARNEW DELHI	marutiweld@marutiweld.com	25913411
		15082	ROYAL WELDING WIRES PVT. LTD.,	7,KARANAI PUDUCHERRY VILLAGE,VIA.URAPAKKAM,KANCHIPURAM DIST,	royal@royalwires.co.in	044-3741 1610
		13211	D&H INDIA LIMITED	PLOT 'A', SECTOR 'A'INDUSTRIAL AREA,SANWER ROADINDORE	dhindia@sancharnet.in	0731-4273501-...
		13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL HOUSE, PLOT NO.26,VILLAGE VALIV,VASAI (EAST) THANE	royalarc@vsnl.com	0250 2480520
		17813	K.M.CROWN WELDING CONSUMABLES PVT.,	BLOCK NO.16A,16B & 17A,INDUSTRIAL AREA NO.1,A.B.ROAD,DEWAS	kmcrownwelding@dataone.com	07272 259384578
		13388	THE INDIAN SEEL & WIRE PRODUCTS LTD	PO INDIRA NAGAR,JAMSHEDPUR - 831 008JHARKAND	upshar@tatasteel.com	0657- 6512744
		14791	ANAND ARC LTD.,	NO.22(OLD.31),RAILWAY COLONY,III STREET,AMINJIKARAI,CHENNAI		044 23746379
		10667	EUREKA SYSTEMS AND ELECTRODES P.LTD	11/15A,SELVARAJAPURAM,CHINTHAMANIPUDUR, COIMBATORE	info@eurekaelectrodes@gmail.com	0422-268 7199...

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LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		15087	V.N.C.ELECTRODEES,	3, INDUSTRIAL ESTATE,S.VELLALAPATTIKARUR	kru_vnc@sancharnet.in	04324 242774
		11881	FUSION ENGG. PRODUCTS LTD.,	B-16,Vith PHASE, POST.GAMARIA(JAMSHEDPUR)SERAIKELA- KHARSAWAN,GAMARIA	info@fusionweld.co.in	0657-6542444
		15084	DWEKAM ELECTRODES LTD,	TALAWALI CHANDA,A.B.ROAD, P.O.MANGILAINDORE (MP)	vk.khandelwal@dwekam.org	0731 422 9500...
		17814	CALCUTTA ELECTRODES PVT. LTD.,	SARDAR PATEL TIMBER MARKET,BHANPURI,RAIPUR	calcutta_electrodes2006@yahoo.com	0771 4090615
		17644	VARUN ELECTRODES PVT. LTD.,	H-56,INDUSTRIAL AREA,PANIPAT	kapoor@varunelectrodes.com	0180 2653085
		14040	MANTEK ELECTRODS PRIVATE LTD,	D-74A, DEVELOPED PLOT ESTATE,THUVAKUDITRICHY		2501540
		15833	THIRUMALA ELECTRODES CO.,	S1-17B,'S' TYPE,SIDCO INDUSTRIAL ESTATE,THUVAKUDI,TRICHY	tec_sevenarcs@yahoo.co.in	0431-6573566
		17451	WELDWELL ELECTRODES,	D-59 M.I.D.C.,HINGNA INDUSTRIAL AREA,NAGPUR	weldwellngp@gmail.com	07104 232211/...
		13693	RASI ELECTRODES LTD.,	21, RAJA ANNAMALAI ROAD,FLAT NO A / 14, THIRD FLOOR,CHENNAI	rele@airtellmail.in	044 26424523
		11420	MODI ARC ELECTRODES CO.	MODINAGARUTTAR PRADESHGHAZIABAD	modiarc@ndb.vsnl.net.in	01232 - 242427
		19111	SPECTRA SUPER ALLOYS LTD,	324 / 325, 3RD FLOOR,ASHIANA TRADE CENTER,ADITYAPUR,JAMSHEDPUR	ss_alloys@yahoo.co.in	0657 6577148
		15090	RAJ KESARI ELECTRODES,	35,RAVINDRA NAGAR,(PRATAP NAGAR)UDAIPUR	rajkesari@yahoo.com	0294 2490193
		11528	RAAJRATNA ELECTRODES LTD	11, SONAROOPA, OPP.LALBANGLOWC.G.ROAD, NAVARANGPURA AHMEDABAD	mktg@gnahd-rel.global.net.in	079 - 6445258
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		19906	BAGHERWAL ELECTRODES PVT.LTD.,	20-23,VAIBHAV CHAMBER,7/1,USHAGANJ CHHAWANI,INDORE	bagherwal13@yahoo.com	0731-2905067
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		13690	GEE LIMITED,	PLOT E-1, ROAD NO. 7,WAGLE INDUSTRIAL ESTATETHANE		
		18432	VIJEY ELECTRODES AND WIRES PVT.	83/1,THIRUNEERMALAI ROAD,NAGELKENI, CHROMPET,CHENNAI	vject@yahoo.co.in	044-2238 1098
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311

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Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
WCC06	WELDG.ELECTRODES:SMA	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		11227	HONAVAR ELECTRODES PVT. LTD.,	305-309,3RD FLOOR,DAMJI SHAMJI INDUSTRIAL COMPLEX ,9,L.B.S MARG, KURLA(WEST)MUMBAI	hel@vsnl.com	022-25020317
		13690	GEE LIMITED,	PLOT E-1, ROAD NO. 7,WAGLE INDUSTRIAL ESTATETHANE		
WCC09	Welding Consumable	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
WCF01	WELDG.WIRE:FLUX CORE	21065	HYUNDAI WELDING CO. LTD.,	15F, 137-37 GANGNAM KU,INSONG BUILDING,SAMSUNG DONG,SEOUL	alex@hdweld.co.kr	82-02 6230-6077
		20970	THE SHANGHAI LINCOLN ELECTRIC	LANE 5008,HU TAI ROAD,BOASHAN, SHANGAI-201907		86 21 560 26664
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
		14676	ITW INDIA LIMITED: WELDING GROUP.	CORPORATE HOUSE,NO.1, SUN CHAMBERS,NEAR SOLA BRIDGE, S.G. HIGHWAY,AHMEDABAD.	fredric.prabhu@itwindia.com	079 3315 4009
WCF02	WELDG.WIRE:FLUX CORE	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
WCF03	WG:WIRE.FC.E309LMoTO	20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20033	KISWEL LTD.,	HEUNGKOOK B/D, 43-1,JUJA-DONGCHUNG-GU, C.P.O.BOX 8641SEOUL, KOREA.SEOUL,KOREA.	export@kiswel.com	82-2-2270-9400
WCF04	WELDG: WIRE: FLUX CO	91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
		21065	HYUNDAI WELDING CO. LTD.,	15F, 137-37 GANGNAM KU,INSONG BUILDING,SAMSUNG DONG,SEOUL	alex@hdweld.co.kr	82-02 6230-6077

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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
WCF05	WELDG: WIRE: FLUX CO	91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
WCF06	WELDG. WIRE: FLUX CO	91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
WCF09	E71T-1 MARATHON PACK	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
		20970	THE SHANGHAI LINCOLN ELECTRIC	LANE 5008,HU TAI ROAD,BOASHAN, SHANGAI-201907		86 21 560 26664
		14676	ITW INDIA LIMITED: WELDING GROUP.	CORPORATE HOUSE,NO.1, SUN CHAMBERS,NEAR SOLA BRIDGE, S.G. HIGHWAY,AHMEDABAD.	fredric.prabhu@itwindia.com	079 3315 4009
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		21065	HYUNDAI WELDING CO. LTD.,	15F, 137-37 GANGNAM KU,INSONG BUILDING,SAMSUNG DONG,SEOUL	alex@hdweld.co.kr	82-02 6230-6077
WCF11	ER70S - 6 BULK PACKS	20970	THE SHANGHAI LINCOLN ELECTRIC	LANE 5008,HU TAI ROAD,BOASHAN, SHANGAI-201907		86 21 560 26664
		14676	ITW INDIA LIMITED: WELDING GROUP.	CORPORATE HOUSE,NO.1, SUN CHAMBERS,NEAR SOLA BRIDGE, S.G. HIGHWAY,AHMEDABAD.	fredric.prabhu@itwindia.com	079 3315 4009

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1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
WCFA1	BULKPACK :E551T1-B2C	14676	ITW INDIA LIMITED: WELDING GROUP.	CORPORATE HOUSE,NO.1, SUN CHAMBERS,NEAR SOLA BRIDGE, S.G. HIGHWAY,AHMEDABAD.	fredric.prabhu@itwindia.com	079 3315 4009
		91270	VEEPEES INDIA,	C-52, 4TH AVENUE ROAD,GUINDY INDUSTRIAL ESTATE,GUINDY.CHENNAI	veepeesindia@gmail.com	044-43534354
WCH03	WELD:SMAW:HF-ECrA	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20018	KENNAMETAL STELLITE	L.P. 1201 Eisenhower Drive N.Goshen ,IN 46526 USAUSA	asiasales@stellitesales.com	44-0-1793 498...
WCH05	SMAW ELECTRO ECoCr-E	20073	WEARTECH INTL INC	13032, PARK STREETSANTA FE SPRINGS , CA 90670USAUSA		001-562 945 7847
WCL07	WELDG.ELECTRODES:SMA	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40
		21991	SPECIAL METALS WELDING PRODUCTS	1401,BURRIS ROAD,NEWTON,NORTH COROLINA 28658	rphillips@smwpc.com	828-465-0352
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
WCL08	SMAW ELECTRODE	21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESY,SURREY KT169LL,		
		21991	SPECIAL METALS WELDING PRODUCTS	1401,BURRIS ROAD,NEWTON,NORTH COROLINA 28658	rphillips@smwpc.com	828-465-0352
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
WCS20	WELDG.ELECTRODES:SMA	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		11420	MODI ARC ELECTRODES CO.	MODINAGARUTTAR PRADESHGHAZIABAD	modiarc@ndb.vsnl.net.in	01232 - 242427
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
WCS22	WELDG.ELECTRODES:SMA	10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343

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		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
WCS27	WELDG.ELECTRODES:SMA	10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
WCS28	WELDG.ELECTRODES:SMA	10036	BHARAT HEAVY ELECTRICALS LTD	WELDING CONSUMABLE MFG CENTRETIRUCHIRAPALLITIRUCHIRAPALLI		
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
WCS29	WELDG.ELECTRODES:SMA	10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		10036	BHARAT HEAVY ELECTRICALS LTD	WELDING CONSUMABLE MFG CENTRETIRUCHIRAPALLITIRUCHIRAPALLI		
WCS30	WELDG.ELECTRODES:SMA	11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		11420	MODI ARC ELECTRODES CO.	MODINAGARUTTAR PRADESHGHAZIABAD	modiarc@ndb.vsnl.net.in	01232 - 242427
WCS31	WELD:SMAW:SS E410-15	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		10036	BHARAT HEAVY ELECTRICALS LTD	WELDING CONSUMABLE MFG CENTRETIRUCHIRAPALLITIRUCHIRAPALLI		
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
WCS32	WELD:SMAW:SS E430-15	10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311

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LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		10036	BHARAT HEAVY ELECTRICALS LTD	WELDING CONSUMABLE MFG CENTRETIRUCHIRAPALLITIRUCHIRAPALLI		
WCS38	SMAW ELECTRD 253MA	22515	BOHLER WELDING GROUP NORDIC SALES A	BOX 501, SE - 774 27 AVESTA,SWEDEN.	INFO@BWGNORDIC.COM	46022685750
		22516	AB SANDVIK PROCESS SYSTEM,	SE 811 81 SANDVIKENSWEDEEN.	donald.anderson@sandvik.com	4602626 5600
WCS39	SMAW ELEC E308H-16	10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
WCS40	SMAW ELEC E316H-16	10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
WCT01	WELD:HF-HAY.ALLY 25	20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA- CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		10313	ZIRCAST LTD	UNIT -2, NO.37,JIGANI INDUSTRIAL AREABANGALORE - 562 106BANGALORE	jsuresh@zircast.com	08110 /26238
WCT02	WELD:HF-HAY.ALLY 21	20073	WEARTECH INTL INC	13032, PARK STREETSANTA FE SPRINGS , CA 90670USAUSA		001-562 945 7847
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA- CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
WCT03	WELD:HF-RCO CRA	20018	KENNAMETAL STELLITE	L.P. 1201 Eisenhower Drive N.Goshen ,IN 46526 USAUSA	asiasales@stellitesales.com	44-0-1793 498...
		20073	WEARTECH INTL INC	13032, PARK STREETSANTA FE SPRINGS , CA 90670USAUSA		001-562 945 7847
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA- CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		10313	ZIRCAST LTD	UNIT -2, NO.37,JIGANI INDUSTRIAL AREABANGALORE - 562 106BANGALORE	jsuresh@zircast.com	08110 /26238
WCT04	WG:PWD:HF:TYP COCRA	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		20073	WEARTECH INTL INC	13032, PARK STREETSANTA FE SPRINGS , CA 90670USAUSA		001-562 945 7847
		20018	KENNAMETAL STELLITE	L.P. 1201 Eisenhower Drive N.Goshen ,IN 46526 USAUSA	asiasales@stellitesales.com	44-0-1793 498...
		20067	UTP SCHWEISS MATERIAL GMBH & CO	ELSASSER STR 10D-79189, BAD KROZINGENGERMANY.		49(0) 07633 / 40

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		20130	ALCONIX CORPORATION	SANNO PARK TOWER,12TH FLOOR,2-11-1 NAGATA-CHO,CHIYODA-KU,TOKYO ,JAPAN	Inamori.khei@alconix.com	
		20321	HOGANAS BELGIUM SA	COLDSTREAM DIVISIONRUELLE GROS PIERRE 10B-7800 ATHRUELLE GROS PIERRE 10B-7800 ATH		
WCW01	EL-8 SAW WIRE	14791	ANAND ARC LTD.,	NO.22(OLD.31),RAILWAY COLONY,III STREET,AMINJIKARAI,CHENNAI		044 23746379
		15085	VOLTARC ELECTRODES (P) LTD,	10-77, FIRST MAIN,ROYAL NAGAR,H.O.SURYAJYOTHI,R.C.ROAD, P.B.NO.33,TIRUPATHI	voltarc@rediffmail.com	0877 2241462
		15084	DWEKAM ELECTRODES LTD,	TALAWALI CHANDA,A.B.ROAD, P.O.MANGILAINDORE (MP)	vk.khandelwal@dwekam.org	0731 422 9500...
		13693	RASI ELECTRODES LTD.,	21, RAJA ANNAMALAI ROAD,FLAT NO A / 14, THIRD FLOOR,CHENNAI	rele@airtelmail.in	044 26424523
		19905	T.M.INDUSTRIES,	PLOT NO.26-27,PHASE-I,SILTARA GROWTH CENTRE,SILTARA RAIPUR	tmtapadia@rediffmail.com	0771-2100524
		10774	D&H SECHERON ELECTRODES PVT LTD.	P.B.NO.344-46,INDL.ESTATE,KILAMAIDANINDORE	sales@dnhsecheron.net	0731-4229222
		19114	WELMET TECHNOLOGIES PVT. LTD.,	34,P.N.MAIDU INDUSTRIAL ESTATE,M.I.D.C. HINGNA,NAGPUR		
		11528	RAAJRATNA ELECTRODES LTD	11, SONAROOPA, OPP.LALBANGLOWC.G.ROAD, NAVARANGPURA AHMEDABAD	mktg@gnaht-rel.global.net.in	079 - 6445258
		13534	RUPA INDUSTRIES,	2-2-105 to 180/10,GANESH CHAMBERSRANIGUNJ,SECUNDERABAD	rupaent@vsnl.net	040-2771 3714
		13211	D&H INDIA LIMITED	PLOT 'A', SECTOR 'A'INDUSTRIAL AREA,SANWER ROADINDORE	dhindia@sancharnet.in	0731-4273501-...
		11378	MAILAM INDIA LIMITED	MAILAM MAIN ROAD,SEDARAPET,PONDICHERRY	mailam@mailanindia.com	0413-2677311
		17813	K.M.CROWN WELDING CONSUMABLES PVT.,	BLOCK NO.16A,16B & 17A,INDUSTRIAL AREA NO.1,A.B.ROAD,DEWAS	kmcrownwelding@dataone.com	07272 259384578
		16166	EVERSHINE WIRES	178/2-A3, THURAIYUR ROAD,PULIVALAM,MUSIRI TALUK,TRICHY	evershinewires@rediffmail.com	04327 235527
		10785	ADOR WELDING LIMITED	CORPORATE MARKETING OFFICE,P.B. NO. 2, CHINCHWAD,PUNE	acegasindia@gamil.com	
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
11288	JAGSHAAN INDUSTRIES	94 FRIENDS COLONYKATOL ROADNAGPUR	jagshaan@nagpur.dot.net.in	0712 - 581557		

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
		15100	MANTEK WIRES	24,SIDCO INDUSTRIAL ESTATE,P.VADUGAPALAYAM,PALLADAMCOIMBAT ORE		
		14340	NALLI ARC INDUSTRIE,	SF NO. 340,NALLIPALAYAM,PADIYUR POST,KANGAYAM TALUKERODE Dt.	nalliar@yahoo.com	04257 245185
		15101	PRECISION WELDARC LTD,	49,B.T. ROAD, PANIHATI24,PARGANAS (NORTH)KOLKATA.	pwires@yahoo.co.in	033 25634753
		14455	WIRE AND WIRE PRODUCTS	SIDCO INDUSTRIAL ESTATEAMBATTURCHENNAI	wwp@vsnl.net	044 26242378
		15810	NOUVEAUX INDUSTRIES (P) LTD.,	NO.2,SOWDAMBIGA NAGARTIRUPUR ROAD.KANGAYAM		
WCW02	WELDING WIRE:SAW EB3	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20563	BOHLER SCHWEISSTECHNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
WCW04	WG:WIRE:SAW ER430	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20033	KISWEL LTD.,	HEUNGKOOK B/D, 43-1,JUJA-DONGCHUNG-GU, C.P.O.BOX 8641SEOUL, KOREA.SEOUL,KOREA.	export@kiswel.com	82-2-2270-9400
WCW05	WG:WIRE:SAW ER410	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20033	KISWEL LTD.,	HEUNGKOOK B/D, 43-1,JUJA-DONGCHUNG-GU, C.P.O.BOX 8641SEOUL, KOREA.SEOUL,KOREA.	export@kiswel.com	82-2-2270-9400
WCW06	WELDING WIRE:SAW EB2	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20563	BOHLER SCHWEISSTECHNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301

**SECTION - VIII
LIST OF APPROVED VENDORS**

1) WELDING CONSUMABLES SUPPLIERS LIST

Mat Group	Material Group Description	Vendor No	Vendor Name	Vendor Address	EMAIL	PHONE1
WCW08	WELDING WIRE:SAW EA4	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
WCW09	WELDING WIRE:SAW EM1	20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		15810	NOUVEAUX INDUSTRIES (P) LTD.,	NO.2,SOWDAMBIGA NAGARTIRUPUR ROAD.KANGAYAM		
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
WCW12	WELDING WIRE:SAW 3 B	20011	BOHLER SCHWEISSTECHNIK AUSTRIA	WERK DEUCHENDORF,A 8605, KAPPENBERG, POSTFACH - 9,AUSTRIA.AUSTRIA.		0043/3862301
		20563	BOHLER SCHWEISSTECHNNIK	UNIONSTRASSE-1,D-59067 HAMM,DEUTSCHLAND GmbH.,GERMANY		
		20047	KANEMATSU TRADING CORPORATION	6th FLOOR,AKEBONO NIHONBASHI BLDG,19 - 5,NIHONBASHIKOAMI-CHO,CHUO - KU, TOKYO, 103 - 0016.	nikko-bocki@kgt.kanematsu.co.jp	81 3 5283 3680
		10081	ESAB INDIA LTD	KARUMUTTU CENTRE, 6TH FLOORNEW NO.634(OLD NO.498)ANNA SALAI, NANDANAM,CHENNAI-35CHENNAI	jagdeesh.ds@esab.co.in	044-826 9343
		22391	AIR-LIQUIDE WELDING FRANCE,	13,RUE D'EPLUCHES-BP70024 SAINT-OUEN I'AUMONE,95315 CERGY PONTOISE CEDEX	jean-paul.shmitt@airliquide.com	1342 13480
		21411	METRODE PRODUCTS LIMITED,	HANWORTH LANE,CHERTESY,SURREY KT169LL,		

BHEL:BAP:Ranipet :: Outsourcing Department

Section-VIII - 2) List of approved vendors for procurement of Paints

SL-No.	Prod Description	SL-No	Supplier Name M/s.	Place
01	INTUMESCENT PAINT	01	AKZO NOBEL INDIA LIMITED	BENGALURU
	INTUMESCENT PAINT	02	CLEAN COATS PVT. LTD.	MUMBAI
	INTUMESCENT PAINT	03	NOBLE PAINTS PVT. LTD	MUMBAI
02	CHLORINATED RUBBER PAINTS	01	ASIAN PAINTS LTD	MUMBAI
	CHLORINATED RUBBER PAINTS	02	ASIAN PAINTS LTD	CHENNAI
	CHLORINATED RUBBER PAINTS	03	BERGER PAINTS INDIA LTD	KOLKATA
	CHLORINATED RUBBER PAINTS	04	BERGER PAINTS INDIA LIMITED	CHENNAI
	CHLORINATED RUBBER PAINTS	05	CARBOLINE INDIA PVT. LTD.,	CHENNAI
	CHLORINATED RUBBER PAINTS	06	JENSON & NICHOLSON LTD.,	KOLKATA
	CHLORINATED RUBBER PAINTS	07	SHALIMAR PAINTS	KOLKATA
	CHLORINATED RUBBER PAINTS	08	SHALIMAR PAINTS	CHENNAI
03	HEAT RESISTANT EPOXY PAINTS	01	ASIAN PAINTS LTD	MUMBAI
	HEAT RESISTANT EPOXY PAINTS	02	ASIAN PAINTS LTD	CHENNAI
	HEAT RESISTANT EPOXY PAINTS	03	BERGER PAINTS INDIA LTD	KOLKATA
	HEAT RESISTANT EPOXY PAINTS	04	BERGER PAINTS INDIA LIMITED	CHENNAI
	HEAT RESISTANT EPOXY PAINTS	05	CARBOLINE INDIA PVT. LTD.,	CHENNAI
	HEAT RESISTANT EPOXY PAINTS	06	JENSON & NICHOLSON LTD.,	KOLKATA
	HEAT RESISTANT EPOXY PAINTS	07	SHALIMAR PAINTS	KOLKATA
	HEAT RESISTANT EPOXY PAINTS	08	SHALIMAR PAINTS	CHENNAI
04	POLYURETHANE ACRYLIC PAINTS	01	ASIAN PAINTS LTD	MUMBAI
	POLYURETHANE ACRYLIC PAINTS	02	ASIAN PAINTS LTD	CHENNAI
	POLYURETHANE ACRYLIC PAINTS	03	BERGER PAINTS INDIA LTD	KOLKATA
	POLYURETHANE ACRYLIC PAINTS	04	BERGER PAINTS INDIA LIMITED	CHENNAI
	POLYURETHANE ACRYLIC PAINTS	05	CARBOLINE INDIA PVT. LTD.,	CHENNAI
	POLYURETHANE ACRYLIC PAINTS	06	JENSON & NICHOLSON LTD.,	KOLKATA
	POLYURETHANE ACRYLIC PAINTS	07	SHALIMAR PAINTS	KOLKATA
	POLYURETHANE ACRYLIC PAINTS	08	SHALIMAR PAINTS	CHENNAI
05	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	01	ADDISION PAINTS	CHENNAI
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	02	ASIAN PAINTS LTD	MUMBAI
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	03	ASIAN PAINTS LTD	CHENNAI
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	04	BERGER PAINTS INDIA LTD	KOLKATA
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	05	BERGER PAINTS INDIA LIMITED	CHENNAI
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	06	BOMBAY PAINTS, CORRIDOR ROAD,	MUMBAI
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	07	JENSON & NICHOLSON LTD.,	KOLKATA

SL-No.	Prod Description	SL-No	Supplier Name M/s.	Place
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	08	NOBLE PAINT & VARNISH CO P LTD	CHENNAI
	REDOXIDE ZINC CHROME PRIMER PAINT IS:2074	09	PERIYAR CNSL WORKERS INDL.COOP	KUNDRAKUDI
06	RUST PREVENTIVE OIL	01	PLASTIPEEL CHEMICALS & PLASTIC	THANE
	RUST PREVENTIVE OIL	02	PROCESS AIDS	BENGALURU
	RUST PREVENTIVE OIL	03	SEMPER-SEAL CHEMICALS,	AGRA
	RUST PREVENTIVE OIL	04	THIN CHEMIE FORMULATIONS	CHENNAI
	RUST PREVENTIVE OIL	05	WESTERN (I) PAINT & COLOUR CO,	CHENNAI
07	SPECIAL PAINTS OF ALL TYPES	01	ASIAN PAINTS LTD	MUMBAI
	SPECIAL PAINTS OF ALL TYPES	02	ASIAN PAINTS LTD	CHENNAI
	SPECIAL PAINTS OF ALL TYPES	03	BERGER PAINTS INDIA LTD	KOLKATA
	SPECIAL PAINTS OF ALL TYPES	04	BERGER PAINTS INDIA LIMITED	CHENNAI
	SPECIAL PAINTS OF ALL TYPES	05	CARBOLINE INDIA PVT. LTD.,	CHENNAI
	SPECIAL PAINTS OF ALL TYPES	06	FOSROC CHEMICALS (I) LTD	BENGALURU
	SPECIAL PAINTS OF ALL TYPES	07	FOSROC CHEMICALS (INDIA) LTD	CHENNAI
	SPECIAL PAINTS OF ALL TYPES	08	JENSON & NICHOLSON LTD.,	KOLKATA
	SPECIAL PAINTS OF ALL TYPES	09	SHALIMAR PAINTS	KOLKATA
	SPECIAL PAINTS OF ALL TYPES	010	SHALIMAR PAINTS	CHENNAI
08	EPOXY BASED & FINISH PAINTS &ITS THINER	01	ASIAN PAINTS LTD	CHENNAI
	EPOXY BASED & FINISH PAINTS &ITS THINER	02	BERGER PAINTS INDIA LIMITED	CHENNAI
	EPOXY BASED & FINISH PAINTS &ITS THINER	03	GRAUER&WEIL(INDIA) LIMITED,	CHENNAI
	EPOXY BASED & FINISH PAINTS &ITS THINER	04	SHALIMAR PAINTS	CHENNAI
	EPOXY BASED & FINISH PAINTS &ITS THINER	05	AKZO NOBEL INDIA LIMITED	BENGALURU
	EPOXY BASED & FINISH PAINTS &ITS THINER	06	GRAND POLYCOATS CO.PVT LTD	VADODARA
09	SPECIAL PRIMER PAINTS AND ITS THINER	01	ASIAN PAINTS LTD	CHENNAI
	SPECIAL PRIMER PAINTS AND ITS THINER	02	BERGER PAINTS INDIA LIMITED	CHENNAI
	SPECIAL PRIMER PAINTS AND ITS THINER	03	GRAUER&WEIL(INDIA) LIMITED,	CHENNAI
	SPECIAL PRIMER PAINTS AND ITS THINER	04	SHALIMAR PAINTS	CHENNAI
	SPECIAL PRIMER PAINTS AND ITS THINER	05	AKZO NOBEL INDIA LIMITED	BENGALURU
	SPECIAL PRIMER PAINTS AND ITS THINER	06	KANSAI NEROLAC PAINTS LIMITED	CHENNAI
	SPECIAL PRIMER PAINTS AND ITS THINER	07	GRAND POLYCOATS CO.PVT LTD	VADODARA
010	CONVENTIONAL PAINTS & THINNER	01	ASIAN PAINTS LTD	CHENNAI
	CONVENTIONAL PAINTS & THINNER	02	BERGER PAINTS INDIA LIMITED	CHENNAI
	CONVENTIONAL PAINTS & THINNER	03	GRAUER&WEIL(INDIA) LIMITED,	CHENNAI
	CONVENTIONAL PAINTS & THINNER	04	CARBOLINE INDIA PVT. LTD.,	CHENNAI
	CONVENTIONAL PAINTS & THINNER	05	SHALIMAR PAINTS	CHENNAI
	CONVENTIONAL PAINTS & THINNER	06	WESTERN (I) PAINT & COLOUR CO,	CHENNAI

SL-No.	Prod Description	SL-No	Supplier Name M/s.	Place
	CONVENTIONAL PAINTS & THINNER	07	NOVAA PAINTS	TIRUCHIRAPPALLI
	CONVENTIONAL PAINTS & THINNER	08	SUNDARAM PAINTS (P) LTD	THANJAVUR
	CONVENTIONAL PAINTS & THINNER	09	KANSAI NEROLAC PAINTS LIMITED	CHENNAI
	CONVENTIONAL PAINTS & THINNER	010	SRI MEENAKSHI PAINT INDUSTRIES,	PUDUKKOTAI
	CONVENTIONAL PAINTS & THINNER	011	PASUM MEENA PAINT INDUSTRIES	SIVAGANGAI DIST
	CONVENTIONAL PAINTS & THINNER	012	JAI KAMAL PAINTS	CHENNAI
	CONVENTIONAL PAINTS & THINNER	013	CHEMECOAT PAINTS	TIRUCHIRAPPALLI
011	SEA WORTHY RUST PREVENTIVE OIL	01	SHALIMAR PAINTS	CHENNAI
	SEA WORTHY RUST PREVENTIVE OIL	02	SUNDARAM PAINTS (P) LTD	THANJAVUR
012	H.R.ALUMINIUM PAINT GRADE II TO IS:13183	01	ASIAN PAINTS LTD	CHENNAI
	H.R.ALUMINIUM PAINT GRADE II TO IS:13183	02	BERGER PAINTS INDIA LIMITED	CHENNAI
	H.R.ALUMINIUM PAINT GRADE II TO IS:13183	03	SHALIMAR PAINTS	CHENNAI
	H.R.ALUMINIUM PAINT GRADE II TO IS:13183	04	KANSAI NEROLAC PAINTS LIMITED	CHENNAI
	H.R.ALUMINIUM PAINT GRADE II TO IS:13183	05	STAR PAINT & OIL INDUSTRIES	MUMBAI
013	CONVENTIONAL PAINTS & THINNER	01	ASIAN PAINTS LTD	CHENNAI
	CONVENTIONAL PAINTS & THINNER	02	BERGER PAINTS INDIA LIMITED	CHENNAI
	CONVENTIONAL PAINTS & THINNER	03	GRAUER&WEIL(INDIA) LIMITED,	CHENNAI
	CONVENTIONAL PAINTS & THINNER	04	CARBOLINE INDIA PVT. LTD.,	CHENNAI
	CONVENTIONAL PAINTS & THINNER	05	SHALIMAR PAINTS	CHENNAI
	CONVENTIONAL PAINTS & THINNER	06	WESTERN (I) PAINT & COLOUR CO,	CHENNAI
	CONVENTIONAL PAINTS & THINNER	07	NOVAA PAINTS	TIRUCHIRAPPALLI
	CONVENTIONAL PAINTS & THINNER	08	SUNDARAM PAINTS (P) LTD	THANJAVUR
	CONVENTIONAL PAINTS & THINNER	09	KANSAI NEROLAC PAINTS LIMITED	CHENNAI
	CONVENTIONAL PAINTS & THINNER	010	SRI MEENAKSHI PAINT INDUSTRIES,	PUDUKKOTAI
	CONVENTIONAL PAINTS & THINNER	011	PASUM MEENA PAINT INDUSTRIES	SIVAGANGAI DIST
	CONVENTIONAL PAINTS & THINNER	012	JAI KAMAL PAINTS	CHENNAI
	CONVENTIONAL PAINTS & THINNER	013	CHEMECOAT PAINTS	TIRUCHIRAPPALLI

LEGEND :

Supplier Control :

1. Inspection at Supplier's works by BHEL / QC / Inspection agency appointed by BHEL
2. Inspection at Supplier's works by Customer / Third party
3. Inspection as per approved Quality Plan
4. Qualification of Suppliers Operators & Process for execution of the job
5. Sample approval required
6. Periodical Process audit by BHEL
7. Inspection after receipt at BHEL



Section-VIII- 3) PENETRANT TESTING CHEMICALS AND
MAGNETIC TESTING CONSUMABLES

PENETRANT TESTING

**PENETRANT TESTING CHEMICALS
DYE (SOLVENT REMOVABLE, FLUORESCENT, WATER WASHABLE, POST
EMULSIFIER) , DEVELOPER, CLEANER**

Sl.No	Vendor address	Approved by
1.	P-MET HIGH-TECH COMPANY (P) LTD. 1-5/6,INDUSTRIAL ESTATE, GORWA, BARODA (GUJARAT) INDIA-390016 PHONE NO.: 0265-282326/281125 FAX : 0265-2793868 E-MAIL : P-MET@ICENET.NET	TRICHY HYDERABAD RANIPET HARIDWAR
2.	ORIENTAL CHEMICAL WORKS (P) LTD 23 SATTANA NAICKEN STERRET 1ST LOOR,SRIVISHAKANYA NILAYAM, ADJACENT STREET, NATRAJ THEATRE CHENNAI 600 112	TRICHY RANIPET
3.	ITW SIGNODE INDIA LTD 3RD FLOOR,MERCHANT TOWERS, 5,ROAD NO.4,BANJARA HILLS HYDERBAD 500 034 E MAIL : VARDA@TCH.ITWSIGNODE.CO.IN Ph.No: 044 -24723956	TRICHY HYDERABAD RANIPET
4.	ITW SIGNODE INDIA LTD PLOT NO 34-37, IDA , APIIC, PASHAMNYLARAM, PHASE-II, MEDAK INDIA -502307 PHONE NO.: 08455- 26089, 26055 , 26328 FAX : 08455-26336 EMAIL: dst@fps.itwsignode.co.in	TRICHY HYDERABAD RANIPET HARIDWAR
5.	ITW SIGNODE INDIA LTD. 10, COMMUNITY CENTRE, EAST OF KAILASH, NEW DELHI , INDIA -110065 PHONE NO.: 01126424984, 01126424990	TRICHY HYDERABAD RANIPET HARIDWAR
6.	PRADEEP METAL TREATMENT CHEMICALS (P) LTD. PLOT NOS A-488/489, ROAD U, WAGLE INDUSTRIAL ESTATE, THANE ,INDIA -400604 PHONE NO.:022-5598 8781 / 82 , FAX : 022-2582 7460 E-MAIL : pradeepndt@mtnl.net.in	TRICHY HYDERABAD RANIPET HARIDWAR
7.	FERROCHEM, 1,GURUPRASAD KUNU 1122/6 ERANDAWAANA PUNE 411 004	TRICHY HYDERABAD RANIPET



Section-VIII- 3) PENETRANT TESTING CHEMICALS AND
MAGNETIC TESTING CONSUMABLES

8.	FERROCHEM NDT SYSTEMS PVT. LTD 6, PRAGATI INDUSTRIAL COMPLEX, 17/1-B, KOTHRUD, PUNE (MAHARASHTRA) INDIA -411004 PHONE NO.: (020)5465258/5432528/5437339 FAX : 5463038 E-MAIL : ferro@pn2.vsnl.net.in	TRICHY HYDERABAD RANIPET HARIDWAR
9.	ANDHRA SPARES COMPANY SHOP NO: 5-5-80/2, 1ST FLOOR, SRI SRINIVASA COMMERCIAL COMPLEX, RANIGUNJ, SECUNDERABAD- 500 003	HYDERABAD
10.	CHECKMATE CHEMICALS LTD, 13, MODERN INDUSTRIAL ESTATE, ROHTAK ROAD, BAHADUR GARH, HARYANA 124 507	TRICHY HYDERABAD RANIPET
11.	CHECKMATE CHEMICALS PVT. LTD. EC-11, 2ND FLOOR, INDER PURI, NEW DELHI , INDIA , 110012 PHONE NO.: 011-2585889/25835870 FAX : 011-25833160 E-MAIL : dlsharma@vsnl.com	TRICHY HYDERABAD RANIPET HARIDWAR
12.	NDT CHEMICAL PRODUCTS, 5-7-9/6, SANGEETH NAGAR, KUKATPALLY, HYDERABAD-500 072. EMAIL: ndtcp787_hyd@dataone.in WEB: WWW.NDTCPHYD.COM PHONE: 09246530958	HYDERABAD
13.	THE ORIENTAL CHEMICAL WORKS, KOLKATTA 1/1B, GOBINDA AUDDY ROAD, CHETLA, KOLKATA-700 027	HYDERABAD
14.	M /S KRISH MET TECH PVT LTD 10 /1ST FLOOR, ARUNACHALAM ROAD,(OPP.SURRYA HOSPITAL) SALIGRAM,CHENNAI 600 093 EMAIL KRISHMETTECH@ETH.NET PH 23761491, 23764450	TRICHY RANIPET



Section-VIII- 3) PENETRANT TESTING CHEMICALS AND
MAGNETIC TESTING CONSUMABLES

MAGNETIC TESTING CONSUMABLES
DRY POWDER

Sl.No	Vendor address	Approved by
1.	ITW SIGNODE INDIA LTD 3RD FLOOR, MERCHANT TOWERS, 5, ROAD NO.4, BANJARA HILLS HYDERBAD 500 034 E MAIL: varda@tch.itwsignode.co.in 044 -24723956	TRICHY HYDERABAD
2.	FERROCHEM NDT SYSTEMS PVT. LTD 6, PRAGATI INDUSTRIAL COMPLEX, 17/1-B, KOTHRUD, PUNE (MAHARASHTRA) INDIA-411004 PHONE NO.: (020)5465258/5432528/5437339 FAX : 5463038 E-MAIL : ferro@pn2.vsnl.net.in	TRICHY HYDERABAD
3.	EAST COAST ENTERPRISES 33, BRABOURNE ROAD, P.BNO. 2217 GPO CALCUTTA 700 001	TRICHY HYDERABAD
4.	ELECTRO MAGFIELD CONTROLS & SERVICES 561 G.M.T.H ROAD (NEAR TELEPHONE EXCHANGE) AMBATHUR CHENNAI 600 098 EMAIL: emcs@eth.net PH 625 4327, 652 1041	TRICHY HYDERABAD
5.	EAST WEST ENGG. & ELECTRONICS CO 204, ACHARYA COMMERCIAL CENTRE DR. C. G. ROAD, CHEMBUR MUMBAI 400 074	TRICHY HYDERABAD
6.	KIRAN ENTERPRISES PLOT NO 175, PRAGATHINAGAR, OPP. JNTU KUKATPALLY, HYDRABAD 500 072	HYDERABAD
7.	PARADEEP NDT PRODUCTS REGIS. OFFICE: 32 WESTMINSTER, MANIKIKAR MARG, CHUNABHATTI, SION, MUMBAI-400 022 WORKS: SHED NO.3, CHANDRASAKHA ESTATE SURVEY NO.1, AMBEGAON BUORUK TAL.HAVELI DIST. PUNE 411 046 PHONE NO. 020 -24210699	TRICHY HYDERABAD



Section-VIII- 3) PENETRANT TESTING CHEMICALS AND
MAGNETIC TESTING CONSUMABLES

8.	PRADEEP METAL TREATMENT CHEMICALS (P) LTD. PLOT NOS A-488/489, ROAD U, WAGLE INDUSTRIAL ESTATE, THANE ,INDIA-400604 PHONE NO.: 022-5598 8781 / 82, FAX : 022-2582 7460 E-MAIL : pradeepndt@mtnl.net.in	
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MPI CHEMICALS (WET)

Sl.No	Vendor address	Approved by
1.	CHECKMATE CHEMICALS PVT. LTD. EC-11, 2ND FLOOR, INDER PURI, NEW DELHI , INDIA -110012 PHONE NO.: 011-2585869/25835870 FAX : 011-25833100 E-MAIL : dbsharma@vsnl.com	TRICHY HYDERABAD BHOPAL HARIDWAR
2.	P-MET HIGH-TECH COMPANY (P) LTD. 1-5/6,INDUSTRIAL ESTATE, GORWA, BARODA (GUJARAT) INDIA -390016 PHONE NO.: 0265-282326/281125,FAX : 0265-2793868 E-MAIL : p-met@icenet.net	TRICHY HYDERABAD BHOPAL HARIDWAR
3.	K ELECTRONICS G11 ,RAJMAHAL, 55-E,M. VASANJI ROAD ANDHERI(EAST) MUMBAI 400 089 PHONE:020-25432528,25437339 FAX:020-25463038 E-MAIL: ferro@pn2.vsnl.net.in	TRICHY HYDERABAD BHOPAL
4.	PRADEEP METAL TREATMENT CHEMICALS (P) LTD. PLOT NOS A-488/489, ROAD U, WAGLE INDUSTRIAL ESTATE, THANE , INDIA, 400604 PHONE NO.: 022-5598 8781 / 82 , FAX : 022-2582 7460 E-MAIL : pradeepndt@mtnl.net.in	TRICHY HYDERABAD BHOPAL HARIDWAR
5.	PRADEEP NDT PRODUCTS PVT. LTD. 32, WESTMINISTER, MANKIKAR MARG, SION, MUMBAI - 400 022 PHONE:022-24073309, 24093118 pradeepndt@vsnl.net vardeji@bol.net.in	TRICHY HYDERABAD BHOPAL



Section-VIII- 3) PENETRANT TESTING CHEMICALS AND
MAGNETIC TESTING CONSUMABLES

6.	ITW SIGNODE INDIA LTD PLOT NO 34-37, IDA , APIIC, PASHAMNYLARAM, PHASE-II MEDAK, INDIA -502307 PHONE NO.: 08455- 26089, 26055 , 26328 ,FAX : 08455- 26336 EMAIL: dst@fps.itwsignode.co.in	TRICHY HYDERABAD BHOPAL HARIDWAR
7.	ITW SIGNODE INDIA LTD 3 RD FLOOR, MERCCHANT TOWERS, 5, ROAD NO 4, BANJARA HILLS, HYDERABAD-500034 PHONE: 040-23353781 E-MAIL: itwindia@hdl.ven.net.in	TRICHY HYDERABAD BHOPAL
8.	ITW SIGNODE INDIA LTD. 10, COMMUNITY CENTRE, EAST OF KAILASH, NEW DELHI, INDIA - 110065 PHONE NO.: 01126424984, 01126424990	TRICHY HYDERABAD BHOPAL HARIDWAR
9.	FERROCHEM NDT SYSTEMS PVT. LTD 6, PRAGATI INDUSTRIAL COMPLEX, 17/1-B, KOTHRUD, PUNE (MAHARASHTRA) ,INDIA-411004 PHONE NO.: (020)5465258/5432528/5437339, FAX : 5463038 E-MAIL : ferro@pn2.vsnl.net.in	TRICHY HYDERABAD BHOPAL HARIDWAR

**ARC MAIN CONTRACT 2022-23 –BHEL Ranipet :: Outsourcing Department
LIST OF NDT APPROVED VENDORS**

Sl.No	Name of the Firm and Address	Approved Methods	Valid upto
1	M/s G.B. NDT Engg. Services, E-52,Industrial Estate,Thuvakudi, Tiruchy-620015 Phone:(0431)2501112,2500891 email:gbandt.xrayengg@yahoo.com	RT, UT, MT, PT	31-05-2024
2	M/s C Premier NDE Services, CP-17, Electrical and Electronics Industrial Estate, Thuvakudi, Tiruchy 620015 Phone (0431)2500878 , 9842455733 email:premierndt@yahoo.com, venu.raj_1954@yahoo.com	RT	31-05-2024
3	M/s Super Quality Services, 95,SQS Building, Near Police Station, Palakkarai Main Road, Trichy-620001Phone (0431)2415087,2414218, Fax- 0431-2464218 E-Mail:sqsndt@yahoo.co.in	RT, UT, MT, PT	31-05-2024
4	M/s Metal Care Engg. Services Plot 13,14, B-1 Kether Manor,3rd Cross, North Extension, Thillai nagar,Trichy 620018 Phone(0431) 2762190, 2481593 9942904651 (Selvaraj) mces_try@yahoo.co.in	RT, MT	31-05-2024
5	M/s Scaanray Metallurgical Services, C-12, Industrial Estate,Mogappair (West) Chennai 600 037 Phone: 044-26250651, 23762613 Fax 26358741 e-mail: scaanray@vsnl.com	RT, UT, MT,PT	31-05-2024
6	M/s Industrial Radiographic Inspection Company SP-111, South Avenue, Ambattur Industrial Estate,Chennai 600 058 Phone: 044-26253235,26250790,26255602, Fax-044-26255838 e-mail : info@iricondt.com	RT,UT	31-05-2024
7	M/s Everest Industrial Radiographer, "GREEN LAND", 1/25, Arisipalayam, Coimbatore- 641032 ,Phone:0422-2638148,2638348, Cell:9843011031 (A.Rathinam) email: everestndt@gmail.com	RT	31-05-2024

8	M/s KGB Inspection Services, P-16, Electrical & Electronics Industrial Estate, Thuvakudi, Tiruchirappalli 620015 Phone (0431)2500164, 9842453258 (Kumaran) email:kgbist2002@yahoo.co.in	RT, UT, MT, PT	31-05-2024
9	M/s Supreme Excel NDT Services, II Floor, Vairam Memorial Complex 24-A/B, Jeeva Street, Subramaniapuram, Tiruchirappalli - 620020 Phone:(0431)2333528, 2501241 e-mail:ndtsrvcs2008@yahoo.co.in	RT, UT, MT, PT	31-05-2024
10	M/s.NDE Inspections, 50,Raja Colony, 4th Cross,Collector Office Road, Trichy-620001. Phone (0431)2416388 , 9345499916 e-mail:ndeinspections@gmail.com, www.rla-ndeinspections.com	RT,UT, MT,PT	31-05-2024
11	M/s Sri Vinayaga NDT Inspection Services, SF 303, Peria Thottam, Kadathur Road, Coimbatore- 641 107. Phone 0422-2653640, 9443027274(Shanmugam) email:svndt@yahoo.co.in	RT	31-05-2022
12	M/s.Sri Shanmuka NDT & Inspection Services, 701, Avoor Road, Mathur, Pudukottai Dist- 622515. email:shanmukandt@gmail.com Mobile:9486675664	RT	19-08-2022
13	M/s United Inspection and Engineering Services, New No 9, Old No 22, Parthasarathypuram, North Usman Road, T.Nagar, Chennai 600 017. Phone:044-42123180, Fax: 044-28142268, Cell:Leeladhar 9444062268, E-mail:uies@sify.com.	RT	01-11-2022
14	M/s Jai Inspection Agencies, Plot No 21, Natesan Nagar, Ayanampakkam, Chennai- 600 095, Phone: 044-26533028, Fax: 044-26531770 email: engineerndt@gmail.com, jai_inspection@yahoo.com	RT.MT,PT,UT	15-06-2023

15	M/s.Naveen NDT Services, Plot No:54, Mariammal Nagar, Near SIDCO, Industrial Estate, Mathur-622515 email:naveennndt@yahoo.co.in Phone:0431-2203637, Mobile:9940743989,9842954850	RT	26-11-2022
16	M/s.A-Star Testing & Inspection Pvt.Ltd, No- 1A,Umapathy Street, West Mambalam, Chennai, India.Pin600 033. Tel:044 4851 4533, Cell:9840919166.Email:admin@astartesting.co.in	RT,UT,PT,MT	03-08-2021
17	M/s.SEA HUB Inspection Services, 1st Floor, Deepam Complex, Thiruverumbu,Trichy-620013	RT& UT,MT,PT	01-11-2022
18	M/s PERFECT INSPECTION SERVICES, Regd.Office:265, Light Industrial Area,Bhilai, Dist: Durg,Pin-490026, Ph:0788-4033857/4039576/2221729,Fax: 0788 4062759 email:pisbhilai@sify.com dkdutta7@yahoo.com09755985599	RT,UT,MT,PT	14-06-2023
19	M/s SIEVERT India Pvt.Ltd, Plot No.B3/B4, TTC Industrial Area, Opp. to Thane Belapur Road, MIDC, Digha, Navi Mumbai, Thane, Maharashtra - 400708. Office:+91 22 67859141 E-Mail : tkrudra@sievert.in	RT,UT	23-03-2023
20	M/s Test Ray's Inspection Services, S.F 413 / 3B, Mopperi Palayam,Palladam Taluk, Coimbatore-642654 Ph:0421-3269845, Mobile9600944001, 02,03 Email:tiesndt@gmail.com	RT	30-04-2024
21	M/s.BECQUEREL industries Pvt Ltd.33,Rushikesh,Ingole Nagar,Modern Co-op.Hsg.Society,Wardha Road, Nagpur.440 005.Cell +91- 9822565879.Email:info@biplndt.com	RT,UT,MT,PT	10-02-2024
22	M/s METALFAB HIGHTECH (P) LTD E 21-25, MIDC, INDUSTRIAL AREA, HINGNA NAGAR, NAGPUR-440 028 Ph:07104- 234240 e-mail:mfhpl@hotmail.com planning@metalfabhightech.com A.K.GHOSH-09922900206	RT,UT,MT,PT	21-12-2022

23	MAG Integrity Resources plot.No-1-3, Electrical & Electronic Industrial Estate, SIDCO, Thuvakudi, Trichy-620015, Ph.No: 0431-2500215,0431-4060209, Contact Person:K.Thangaiyan,MD,9443495215 E-Mail:carrier@magintegrity.com	UT,MT,PT	25-03-2023
24	M/s.Madras Radiography Engineers, 705,3rd Cross,HRBR I Block, Kalyan Nagar,Bangalore-560043 Contact Person: Damodharan.S- 9944033446,09448040882 E-Mail: mre.ndt@gmail.com	RT	25-07-2023
25	M/s RAIPUR WELDING AND NDT SERVICES PVT LTD, MD 559 Housing Board colony, Industrial Estate, Bhilai-490026,Mr.Santosh Sahu Tel: +91 9165444863, +91 9669363073 E-Mail: rwns_ndt@outlook.com	RT	30-11-2023
26	M/s. Integrity and Reliability Service, No:5/8c, Thiruvengada Nagar, Thiruverumbur, Trichy- 620013. E-Mail: iris.ndte@gmail.com , irinspectionsservice@gmail.com , Ph.No:+91-8526666028,9944674608.	UT	06-07-2023
27	M/s.UNIK NDT Inspection and Engineers Pvt Ltd, Regd.Office:23, Trikone Park, North Balia, Garia, Kolkata-700084. E-Mail: unikndt@gmail.com, info@unikndt.com Pradeep Mondal:07890009619,07059691066	RT	22-02-2024
28	M/s. VMAX Engineers, No:107, Lokamanya Thilakar Street, Kumarannagar, Padi, Chennai-vmxengineers@gmail.com Contact: Meganathan-07397788741.	UT,MT,PT	11-08-2023
29	M/s.COSMIC INSPECTION SERVICES Works:SF.No:475/2D,Sellappampalayam Road, Near LRT Foundry, Ponnadampalayam, Kanniur Post, Coimbatore-641659, E-Mail: cosmicinspectionsservices@gmail.com Mob:+91-9894670567-Mr.S.Esakki.	RT	23-07-2022

30	M/s Coimbatore Industrial Radiographers, S.F.No 221, Therkku Thottam, Othakkal Mandapam, Coimbatore-641032.Mobile:99443243201, email:cirndt@gmail.com	RT	01-11-2022
31	M/s.CUTECH SOLUTIONS INDIA PVT TLD, No-152, 2nd Floor, Tap Turbo Park, 4th lane, First Main Road,21st phase, Ambattur real estate, Chennai-600058 Phone:044-43023170 Mayuran-9043717310	RT,UT,MT	01-11-2022
32	M/s.Shri Vignesh NDT Works, Off:14 A BELL Nagar, Thuvakudi,, Trichy-620015, Phone:0431-2770551, Cell.No:9994381772 Contact person: Shri.D.Selvaganapathy, EMail: shrivigneshndtworks@gmail.com	UT,MT,PT,RT	13-06-2023
33	M/s. National Radiographic Inspection Co Pvt Ltd, A22,F/1,Brindavanam Flats,5h Avenue, Banu Nagar, Pudur, Chennai-600053 E-Mail:info@nricndt.co.in, snmoorthy@nricndt.co.in 0461-6540529,09246643275	RT	22-02-2024
34	M/s. Gama Industrial Services Pvt.Ltd, 301,Suprabath, Bejai Kapikad, Mangalore-575004 Phone: 0824 2223901 E-Mail: mlr@gamaind.com Mr.V.Sankaran ,Mobile: 09844044901.	RT	21-10-2023

ARC MAIN RATE CONTRACT 2022-23 – BHEL Ranipet :: Outsourcing Department

LIST OF APPROVED GALVANISING VENDORS

- 1 M/s MKK metal Sections Private Limited
Plot No:S-99 to S-108, SIPCOT Phase III
MUKUNDARAYPURAM POST , Ranipet 632406

- 2 M/S AARUSH Manufacturing Solutions Private Limited
282/4 Soorai Mottur Road , Soorai Village ,
Ranipet Dt
632505

**Outsourcing Department
BAP:Ranipet**

List of approved vendors for ARC Blasting-2022-23

Sl No	Vendor Code	Vendor Name
1	A40	M/s Five Star Industries, S.F. No-11/6-9,Trichy Pudukottai Road,Mathur Industrial Estate,Mathur,Pudukottai Dist-622515
2	M76	M/s Sri Ganesha Enterprises, S.F. No-220/1A3,Navallur Road,Mela Thiruvizha patti,Thanjavur-613402
3	A29	M/s Sri Vari Industrial Works, NO.358/2B, Thiruvalluvar Nagar, Nellikuppam Mottur,Ranipet-632405
4	V66	M/s Pradeep Engineering Enterprises, S.F. No-448/3,Krishnapuram,Ekambaranellore Post,Ranipet-632405
5	V24	M/s RN Fabricators, Plot No-24,Elayanallore Road, Melmanthangal Village, Kugayanallore, Ranipet-632515
6	S87	M/s Metal Merge Manufacturers, S.F. No-345/1,347/3,347/4, Kanigapuram Village, Kokkeri Post, Katpadi-632520
7	A05	M/s Pee Yes Engineering, Sripathanallur,Thenpalli PO,Ranipet-632407
8	A06	M/s Markhs Engineering Works-Unit-II, S.F No-21/1,23/2A,Chinna Ramanathapuram Road, Katpadi,Vellore-632519
9	S72	M/s Hari Engineering Works, S.F. No-63,186,189, Eranthangal Village, Katpadi-632519
10	A59	M/s ESR Industries, S.F. No-91/6,7,8,9,10, Vellupatty Road, Vendayampatty, Dist- Tanjore, PIN-613402
11	A60	M/s Airtech Engineers, SF No-212,213,Trichy Thanjavur main road,Pudukudi,Thanjavur-613402
12	A78	M/s Thirupathi Heavy Engineering Industries, 466/1,RENDADI ROAD, KRISHNAPURAM, RANIPET -632405

**SECTION - VIII
LIST OF APPROVED VENDORS**

6) LIST OF APPROVED HEAT TREATMENT VENDORS

S.No	Vendor Code	Area Code	Vendor Name	ADDRESS	EMAIL ID	PHONE NO
1	30332	A05	RAMAN STRLS & ALLIED INDS.	RAMAN STRLS & ALLIED INDS. No:F-1, Ancy. Indl. Estate Thiruverumbur TIRUCHIRAPALLI 620014	ramanstructurals@yahoo.com	9443302468
2	30175	A10	KATTHIRMALAI ENGINEERING WORKS	KATTHIRMALAI ENGINEERING WORKS G1 ANCILLARY INDUSTRIAL ESTATE THIRUVERUMBUR TIRUCHIRAPALLI TIRUCHIRAPALLI - 620 014 620014	katthirmalai@hotmail.com	9942984454
3	30114	A21	VANGUARD INDUSTRIES	VANGUARD INDUSTRIES D2-B, INDL ESTATE THIRUVERUMBUR TIRUCHIRAPALLI THIRVERAMBUR 620014	van30114@yahoo.co.in	9842412672
4	30265	B21	JAYARAM ENGINEERING WORKS,	JAYARAM ENGINEERING WORKS, E-15 & 16,DEVELOPED PLOTS ESTATE, THUVAKUDI, TRICHY 620015	cmrao@jayaramengg.com	98424-55045
5	30061	C34	G.K SONS ENGG ENTERPRISES PVT.LTD.,	G.K SONS ENGG ENTERPRISES PVT.LTD., 30, MANNARPURAM TIRUCHIRAPALLI TRICHY-TOWN 620020	unit3@gksons.com	9842412262

**SECTION - VIII
LIST OF APPROVED VENDORS**

6) LIST OF APPROVED HEAT TREATMENT VENDORS

S.No	Vendor Code	Area Code	Vendor Name	ADDRESS	EMAIL ID	PHONE NO
6	31321	C62	WIRE AND WIRE PRODUCTS	WIRE AND WIRE PRODUCTS NO.46/210, PUDUKKOTTAI MAIN ROAD SEMPATTU TIRUCHY 620007	wwp620007@yahoo.co.in	9444278887
7	31490	C69	DREAMZ INDUSTRY	DREAMZ INDUSTRY 149/1B, VENGANGUDI MANNACHANALLUR TALUK TIRUCHIRAPALLI 621112	dreamzindustry2012@yahoo.com	9894661983
8	31841	F06	SREE SIVA SAKTHI ENGINEERING WORKS	SREE SIVA SAKTHI ENGINEERING WORKS PLOT No.11,12 & 13, SF.No.18/1 - C AVOOR MAIN ROAD MATHUR MATHUR-PUDUKKOTTAI 622515	ssshangers@gmail.com	9842052200
9	31203	J09	M.Se INDUSTRIES	M.Se INDUSTRIES 57B, ANAMALAI AMMAN KOVIL STREET L&T BYE PASS ROAD, VELLALORE COIMBATORE 641111	msemovers@yahoo.co.in	9843347004
10	31025	J71	MANI NAGGAPPA MOTORS MADURAI P LTD.	MANI NAGGAPPA MOTORS MADURAI P LTD. SL.NO.90/3 MADURAI-MELUR MAIN ROAD, NARASINGAMPATTI, MADURAI 625122	nagauto@gmail.com	9344101699

**SECTION - VIII
LIST OF APPROVED VENDORS**

6) LIST OF APPROVED HEAT TREATMENT VENDORS

S.No	Vendor Code	Area Code	Vendor Name	ADDRESS	EMAIL ID	PHONE NO
11	30236	L78	VUJJAAY COY INDUSTRIESS	VUJJAAY COY INDUSTRIESS F2 / 4, SIDCO INDUSTRIAL ESTATE ARIYAMANGALAM TIRUCHIRAPPALLI 620010	vcitry@yahoo.com	9952411461
12	30761	L81	AMBIGAI ENGINEERING WORKS UNIT II	Ms. AMBIGAI ENGINEERING WORKS UNIT II SF NO. 169/1,170/1A,170/1B,170/3a2, 174/3,170/11,170/3A1, PUDUKKUDI,-TANJORE DISTRICT 613402	ambigai_engg@hotmail.com	9345986491
13	30086	M16	PIONEER ENGG INDS	PIONEER ENGG INDS NO2,CHENNAI BYPASS ROAD SUBARAMANIYABURAM TIRUCHIRAPALLI TRICHY-TOWN 620020	pioneereng_ind@yahoo.co.in	9842402255
14	30084	M27	NIRMAL ENTERPRISES	NIRMAL ENTERPRISES PUGAZH NAGAR (OPP.OIL MILL BUS STOP) TIRUCHIRAPALLI KATTUR 620019	try.nent@gmail.com	94432 11693
15	30090	M52	R.K METAL INDUSTRIES	R.K METAL INDUSTRIES 32/4, III STREET,NEHRU NAGAR KAJAMALAI MAIN TIRUCHIRAPALLI TRICHY-TOWN 620023	rkmatal2003@yahoo.com	0431-2556564

SECTION - VIII
LIST OF APPROVED VENDORS
6) LIST OF APPROVED HEAT TREATMENT VENDORS

S.No	Vendor Code	Area Code	Vendor Name	ADDRESS	EMAIL ID	PHONE NO
16	30087	M68	PUNITHA ENGG WORKS	PUNITHA ENGG WORKS SF No.286/2-A, TRICHYRAPPALLI THIRUNEDUNGULAM 620015	punithaenggtry@gmail.com	9942462023
17	30861	D03	MARIA ENGINEERING ENTERPRISES,	MARIA ENGINEERING ENTERPRISES SF.NO.22/1, TRICHY-TANJORE MAIN ROAD, ASSUR POST TRICHY 620015	mariaenggenterprises@gmail.com	9865370000

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List Of Standard QWI

PROCEDURE NUMBER	Rev	Effective Date	Title Of The Procedure
A. GENERAL			
PR:QA:076	01	20/09/06	Kerosene Leak Test
QCP:002	02	24/04/04	Fabrication Of Structural Part (Fabrication Of Non Pressure Parts)
SIP:NP:06	02	11.03.17	Procedure For Visual Inspection Of Non Pressure Parts
SIP:NP:07	02	25.11.09	Welding Qualification For Structural Application
SIP:PP:22 A1	03	10/05/03 01/12/04	Procedure For Surface Preparation And Painting
BAP:NDT:RP: MT:01	03	30/08/2016	Procedure For Magnetic Particle Examination Of Ferric Material And Welded Components
BAP:HT:001 A3	05	11/07/96 27/01/07	Heat Treatment Schedule
BAP:NDT:RP: PT:01	03	30/08/2016	Procedure For Liquid Penetrant Examination
PR:QA:500	01	10/09/20	Procedure For Allowable For Deviations For Dimensions Without Specified Tolerances
PR:QA:502	00	21/04/93	Procedure For Restarting Of Furnace In Case Of Power Failurss
PR:QA:504	00	27/05/93	Procedure For Seaworthy Packing Of Components For Export Contracts
PR:QA:505	01	14/07/93	Procedure For Storage Of Shelf Life Items Like Rust Preventive Fluids, Paints, Rubber Components, Grease, Anti Seize Compounds And Similar Components/Items
PR:QA:507	00	05/07/93	Procedure For Localised Heat Treatment On Structural Weld Joints
PR:QA:508	02	31/03/98	Procedure For Blast Cleaning
PR:QA:509	00	04/08/93	Guide Lines For Ndt Requirement On Gas Cut Edges
PR:QA:510	00	10/06/02	Measurement Of Internal And External Key Way Dimensions
PR:QA:512	00	31/01/94	Procedure For Control Of Surface Preparation And Painting Of Fabricated Components At Sub Contractors Works
PR:QA:514 A2	03	24/07/99 24/03/18	Procedure For Color Coding Of Raw Material
PR:QA:516	00	24/04/95	Product Ncr Cause Codes
PR:QA:521	01	24/11/20	Codification Of Sars
PR:QA:590	02	24/01/18	Procedure For Surface Preparation And Painting For Bap Products
SQW-01	00	10/06/93	Standard Qp For Welding
B. ELECTROSTATIC PRECIPITATORS			
QCP:E:002	03	30/05/13	Splicing Norms For Sheets, Plates And Other Structural Items
QCP: E:009	00	05/10/88	Manufacture Of Packing Frames And Angle Irons For Collecting Electrodes
QCP:E:18 A1 A2	00 00 00	30/04/92 07/07/93 28/01/95	Grip Coupling
SQP:ESP:201	00	20/01/01	Pin Wheel Assy
SQP:ESP:283 A1	01	30/06/07 23/06/18	Esp Supporting Structure(Column And Bracing & Long And

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List Of Standard QWI

			Transverse Roof Beams)
SQP:ESP:284 A1	01	06/06/07 28/02/20	Plate Formed Fabricated Components Side Panels , Casing Shell , Top Panel , Hopper Wall, Roof Panel, Funnel Assy And Its Splitters, Gd Housing Panels
SQP:ESP:285 A2	00 00	20/06/98 17/02/05	Collecting And Emitting Electrodes Suspension Frames Of Esp
SQP:ESP:286 A2	00	20/06/98 04/05/05	Rapping Shaft Foundation Bolts & Lifting Holders
SQP:ESP:287 A1 A2	00 00 00	20/06/98 18/09/00 25/01/01	Inner Arm,Outerarm,Shockbar,Vertical Stay,Vertical Beam,Supporting Beam.
SQP:ESP:288 A1	00 00	20/06/98 25/01/01	Insulator Housing
SQP:ESP:289	00	20/06/98	Expansion Joint
SQP:ESP:290	02	12/07/07	Screen Sheet
SQP:ESP:260 A1 A2	00 00 00	31/01/94 05/11/97 15/02/00	Guillotine Gates

C. WEG AND CHIMNEYS

QCP:W:001	00	20/07/96	Qcp For Wind Mill Structure
QCP:W:003	00	18/11/94	Qcp For Nacelle Cover Assembly
QCP:W:004	01	17/07/96	Qcp For Assembly For Nacelles Of Wind Generators(Nortex Design)
QCP:I:001 A1 A2	03	29/06/94 28/11/00 27/12/00	Qcp For Ipp Chimenys
PR:QA:518	00	27/05/95	Surface Preparation And Painting Of Weg Tower And Nacelle
PR:QA:542	00	09/03/99	Procedure For Trial Assy Of Cylindrical Steel Chimney Shells

D. GATES AND DAMPERS OF BOILER DUCTS

SIP:NP:08	00	15/07/96	Quality Requirement For Manufacturing Of Seals For Louvers, Biplane Dampers And Gates
SQP:NP:03 A1 A2	01	01/02/95 12/08/00 27/02/02	Louvers And Biplane Dampers
SQP:NP:04 A1	01	01/02/95 04/12/96	Guillotine Gates
ICL-DAM:502	00	28/02/02	Inspection Check List For Biplane Dampers

E. FANS

QP:FAN:302	01	09/02/10	Rvc Assy
QP:FAN:304	02	07/08/21	Pent House Ventilation Fan/Seal Air Fan
QP:FAN:306	01	10/06/94	Seal Air Fan
QP:FAN:317 A1 A2	04	11/08/97 22/08/98 07/12/00	Radial Fan Impellers And Conical Cover Plate
QP:FAN:323	01	11/12/94	Connecting Ring And Supporting Ring
QP:FAN:324	01	15/11/93	Bush For Servo Motor

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QP:FAN:326	01	26/07/95	Ap Fan Shaft Assy
QP:FAN:327	01	28/09/96	Piston With Adjusting Disc
QP:FAN:328	02	16/02/10	An Fan Impeller
QP:FAN:329 A1	00	22/11/93 13/01/94	Ap Impeller Cover Plate
QP:FAN:330 A1	00	22/11/93 13/01/94	Ap Hub With Supporting Body
QP:FAN:332	01	20/06/94	Blade Shaft
QP:FAN:333 A1	00	22/11/93 13/01/94	Cylinder Assy
QP:FAN:334	01	16/02/10	Ap Hub Disc
QP:FAN:335	01	16/02/10	Ap Fan Bearing Cover
QP:FAN:336 A1 A2	00	22/11/93 13/01/94 11/04/08	Impeller Hub And Blade Bearing Assy
QP:FAN:338	01	16/02/10	Supporting Body
QP:FAN:342 A1	01	29/11/94 11/08/03	Spiral Casing Of Ndv, Ndzv And Ndfv Fans
QP:FAN:343 A1 A2 A3	03	22/07/95 09/05/01 02/01/03 04/06/09	Damper Control Assy
QP:FAN:345 A1 A2	01	02.07.14	Radial Fan Shaft Of Tube With End Piping Design
QP:FAN:346	01	23.04.01	Solid Shaft Of Radial Fans
QP:FAN:347 A1	02	20/06/95 29/09/04	Impeller Of Czech Design DI Type
QP:FAN:348	00	10/06/96	Ap Fan Hsg And Hub Front Part
QP:FAN:350	00	05/06/95	Expansion Joint For Fans
QP:FAN:352	01	24/06/16	Shaft With Brg Assy(Tube Type)
QP:FAN:353 A1	01	09/12/95 15/02/00	Control Rod And Control Slide/Control Sleeve
QP:FAN:354 A1	00	03/02/96 05/12/00	Radial Fan Rotor Asssy
QP:FAN:355	00	26/04/96	Hub With Flange
QP:FAN:356	01	10/06/96	Outlet Guide Vane Assy
QP:FAN:357	00	05/12/00	Steel Compensating Weight Of Ap Fan
QP:FAN:358	00	05/12/00	Ap Fan Lever
QP:2:4:271 A1	00	18/05/81 22/08/94	Igv Assy (Nd Type Fans)
QP:2:4:272 A1	00	18/05/81 22/08/94	Igv Assy (An Type Fans)
QP:2:4:273 A1	00	18/05/81 22/08/94	An Static Fan Parts(Kkk Design)
QP:2:4:274 A1	00	18/05/81 22/08/94	Ap Static Fan Parts(Kkk Design)
QCP:F:002 A1 A2	02	05.12.2012	Ap Fan Diffuser Assy

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QCP:F:007 A1	01	15/03/2018	Ap Fan Suction Chamber
FAN:315	00	16.03.04	Bearing Pedestal & Base Frames for Hydraulic Coupling & Motor
SQP:312 A1	03	14/03/2020	Lube Oil System And Fittng
PR:QA:302	01	03/02/03	Requirements For Balancing Mandrel
PR:QA:304	01	03/02/03	Reblading/Repair Of Axialchezck Type/An Impellers
PR:QA:305	02	15/03/10	Trail Assy Of Ndzv Spiral Casing
PR:QA:309	11	09.11.20	Recommended Balancing Speeds For Fan Components
PR:QA:314	05	05/01/09	Verification Of Performance Of Balancing Machine With Master Rotor
PR:QA:321	04	26/02/07	Balancing Of Ap Fan Shaft
PR:QA:323 A1	03	03/03/07 27/08/09	Guidelines For Fixing Of Balancing Correction Masses
PR:QA:326	01	03/02/03	Hot Pressing Of An Impeller Blades, Root Stifners And Guide Vanes Of Ap, An Static Parts
PR:QA: 329	01	03/02/03	Assembly Of Functional Test Of Ndfv Shaft With Bearing Assy
PR:QA:333	01	03/02/03	Ensuring Specified Interference Fil Incase Of Deviation In Shaft In Tube Bore
PR:QA:341	03	16/07/04	Preservation And Packing Of Fan Rotor Assy

F. AIR PREHEATERS

QCP:2:4:258 A1 A2	00	01/03/81 13/01/02 05/02/03	Cleaing Devices Of Aph
SQP:APH:104 A1	01	27/01/03 04/02/08	Tubular Aph
SQP:APH:107 A1	02	15/02/10 22/07/14	Heating Elements Basket Assembly
PR:QA:410	07	07/10/21	Procedure For Fabrication Of Extra Width Plates

G. DESALINATION


QCP:D:001	00	15/05/97	Fabrication And Assembly Checks On And Desalination Plants
PR:QA:526	01	14/08/01	Surface Preparation And Painting Of Components & Desalination Plants

H. List Of Cross Referred Documents For Fan

Sl. No	Sqp No.	Rev No.	Cross Reffered	Superseded By
01	Fan:308	02	IS 2147	IS 13947
02	Fan:310	00	IS 2147	IS 13947
03	Fan:326	01	PR:QE:017/03 PR:QA:0173/00 PR:QA:061	PR:QA:337/00 PR:QA:341/00 PR:QA:338/00
04	Fan:331	00-A1	QCP:1600111530	PR:QA:328/00
05	Fan:336	00-A1	QCP:16000111529(4)	PR:QA:332/00

			PR:QA:082/00	PR:QA:331/00
06	Fan:339	00-A1	QCP:F:009/00-A1	PR:QA:320/01
07	Fan:341	00-A1	PR:QE: 017/03 QCP:F:004/00 PR:QA:173/00	PR:QA:337/00 PR:QA:321/00 PR:QA:341/00
08	Fan:345	00	PR:QE:017/03 PR:QA:173/00	PR:QA:337/00 PR:QA:341/00
09	Fan:346	01	PR:QE:017/03 PR:QA:173/00	PR:QA:337/00 PR:QA:341/00
10	Fan:354	00	PR:QA:061/00	PR:QA:338/00

Note: Quality documents can be viewed in Section X

 An ISO Company	BHARAT HEAVY ELECTRICALS LIMITED (A Government of India Undertaking) பாரதமிகுமின் நிறுவனம்	Ph: 04172-284030, 284158, 241170 Email: bsmanian@bhel.in
	BOILER AUXILIARIES PLANT, Indira Gandhi Industrial Complex, RANIPET- 632 406 (Tamil Nadu)	

BHEL-BAP-OS- MAIN-ARC 2022-23

SECTION – XI BANK GUARANTEE

(Instructions to Fill the Bank Guarantee Format to be issued by BHEL)

Minimum base BG value of Rs.10.00 Lakhs should be provided by the vendor at the time of signing the contract.

1. Bank Guarantee shall be issued by any one of BHEL's Bankers or any Nationalized Bank. Please refer to List of BHEL's Bankers enclosed.
 - a. If it is not possible, then BG can be issued by a Scheduled Commercial Bank with the prior approval of BHEL.
 - b. BG from Co-operative Banks are not acceptable.
2. BG Format of BHEL only shall be used. Should not remodify the format.
 - a. Only the relevant information like Supplier Name, BG Value, Contract No., Validity etc. shall be typed in the pre-printed form and executed by Bank.
 - b. Special adhesive stamp of the required value shall be affixed on the 1st page of the Form.
 - c. If Special Adhesive stamps are not available, then applicable stamp duty shall be paid at the Bank / Agency nominated by the concerned State Government to collect stamp duty, who" will affix their signature, date and seal in the first page of the BG Form clearly marking it as "SPECIALADHESIVE" & "STAMP DUTY".
 - d. Stamp Duty for the BG shall be at the rate as applicable in the State where the BG is executed.
 - e. Bank seal shall be affixed on the special adhesive stamp.
3. The executing officer of the Bank shall indicate his name, designation and power of attorney number/signing power number etc. on the BG.
 - a. Any correction / overwriting on the BG shall be duly authenticated under the Seal and signature of the executing officer of the Bank.
 - b. Each page of the BG shall be duly signed/initialed by the executing officer of the Bank and the last page is to be signed with full particulars under the seal of the Bank.
 - c. Fax number, e-mail Address, contact person, phone number and complete postal address shall be indicated in the covering letter of the BG from Bank.
4. **The validity of the BG shall cover the period of Contract (or such other period) as per purchase Order, if otherwise specified).**

- a. The BG shall have a claim period of 3 months/ 1 year. If no separate claim period is indicated in the BG, then the validity shall cover the contract period (or such other period as per Purchase Order, if otherwise specified) plus 3 months.
 - b. No clause of the BHEL BG Form shall be altered, deleted or new clauses added by the issuing Bank under any circumstances. Bank Guarantees with altered/deleted/added clauses will not be accepted by BHEL under any circumstances.
 - c. If the issuing bank wants to add any additional clauses, it shall be intimated to BHEL well in advance with exact text of clause, which shall be subject to approval by BHEL Law department. Those clauses specifically accepted by BHEL- Law department can be added in the last page of the BG form and executed by Bank.
5. Bank Guarantee shall be forwarded by issuing Bank directly to SDGM(OS)/BHEL/BAP/Ranipet-632406.
- a. If it is not directly forwarded to BHEL due to unavoidable circumstance, then the issuing bank shall sent a letter directly to BHEL conforming the issue of the BG enclosing a photocopy of the original BG
 - b. The bank guarantee should not be routed through Bank along with other dispatch documents under any circumstances.
6. In case of any extension of BG the same shall be executed on non-judicial stamp paper of the required value.
- a. Only the due date and claim period shall be extended
 - b. The extension should not result in alteration of any material facts of the BG.
7. Bank Guarantees executed as per the above instruction only shall be accepted at our end. Hence kindly ensure compliance with the above instructions for yearly processing of the bills and to avoid hold up of the bills

SECTION XII

BANK GUARANTEE FOR SUPPLY FREE ISSUE MATERIAL

Bank Guarantee No:

Date:

NAME OF ISSUING BANK
& ADDRESSES OF THE BENEFICIARY
NAME OF ISSUING BANK
& ADDRESS
BANK EMAIL ID:
BANK PHONE NO:
SFMS Serial No* :
AUTHORISED SIGNATORIES CELL PHONE NO:
BANK FAX NO:
IFSC AND MICR CODE

Dear Sirs,

1. In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to.....² (Name of the Vendor / Contractor / Supplier) (**VENDOR CODE**), with its registered office at _____² (hereinafter called "the Vendor/Contractor/Supplier" which expression shall include its successors and permitted assigns) a contract Ref No.....dated³valued at Rs.....(Rupees -----) /FC.....(in words.....) for⁴(hereinafter called the 'Contract')

AND WHEREAS the Employer having agreed as per the terms and conditions of the Contract to supply free issue materials for the manufacture/fabrication of the equipment at the 'Contractor/Supplier/Fabricator's' site on furnishing of a Bank Guarantee for Rs. _____ (Rupees.....)⁵ in the manner hereinafter specified for the due safeguard of the free issue material,

2. we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount but not exceeding Rs ----- (Rupees -----) without any demur, merely on a demand from the Employer and without any reservation, protest and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

3. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

4. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the 'Contractor/Supplier/Fabricator in any suit or proceeding pending before any Court or Tribunal or Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

5. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the 'Contractor/Supplier/Fabricator' shall have no claim against us for making such payment.

6. We theBank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and till the reconciliation of the free issue material has been carried out and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

7. We Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said 'Contractor/Supplier/Fabricator' from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier/Fabricator and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said 'Contractor/Supplier/Fabricator' or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said 'Contractor/Supplier/Fabricator' or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

8. The Bank also agrees that the Employer 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 Contractor/Supplier/ Fabricator and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's/Supplier's/ Fabricator's liabilities.

9. This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

10. This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/ Supplier/ Fabricator but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

11. Unless a demand or claim under this guarantee is made on us in writing on or before the **claim period last date** we shall be discharged from all liabilities under this guarantee thereafter.

12. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Ranipet.

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

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁵
- b) This Guarantee shall be valid up to⁶
- c) Unless the Bank is served a written claim or demand on or before (minimum 3 to 6 months from the expiry date ⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

13. We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

NAME AND ADDRESS OF THE EMPLOER. i.e Bharat Heavy Electricals Limited

¹ *NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER AND VENDOR CODE ASSIGNED BY BHEL . .*

² *DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE*

³ *PROJECT/SUPPLY DETAILS AND CONTRACT VALUE*

⁴ *BG AMOUNT IN FIGURES AND WORDS*

⁵ *VALIDITY DATE (dd /mmm /yyyy)*

⁶ *DATE OF EXPIRY OF CLAIM PERIOD (dd /mmm /yyyy)*

* **Structured Financial Messaging System (SFMS)** has been/ is being implemented by the Banks as per the Ministry of Finance's instructions for Sending and receiving Bank Guarantee and also Inland Letter of Credit Instruments. The SFMS provides a platform for secure communication within the Bank and between Banks. As such, SFMS can prove to be an excellent IT enabled platform for getting secure confirmations from the Banks in respect of Bank Guarantees issued in favor of BHEL.

List of Consortium Banks

Sl. No	Nationalised Banks	Sl. No	Public Sector Banks
1	State Bank of India	18	IDBI
2	Allahabad bank		
3	Andhra bank	Sl. No	Private banks
4	Bank of Baroda	19	Axis Bank
5	Canara Bank	20	HDFC
6	Corporation bank	21	ICICI
7	Central bank	22	The Federal Bank Limited
8	Indian Bank	23	Kotak Mahindra Bank
9	Indian Oversea Bank	24	Indusind Bank
10	Oriental bank of Commerce	25	Yes Bank
11	Punjab National Bank		
12	Punjab & Sindh Bank	Sl. No	Foreign banks
13	Syndicate Bank	26	CITI Bank N.A
14	UCO Bank	27	Deutsche Bank AG
15	Union Bank of India	28	HSBC
16	United Bank of India	29	Standard Chartered Bank
17	Vijaya Bank	30	J P Morgan