

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI-620 014

WORKS CONTRACTS MANAGEMENT

NOTICE INVITING TENDER

1.	Tender Ref No:	BHEL-TRY/ WCM/9471900066/ 08.06.2019
2.	Tender Type	Open Tender -Two part
3.	Name of works	SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.
4.	Location of work	BHEL-Trichy.
5.	Period of contract	Eighteen months from the date of award of contract.
6.	Earnest Money Deposit Amount	₹ 18,520 /- (Rupees eighteen thousand five hundred and twenty only)
7.	Contents of Tender Document.	<p><u>A] Part-I Technical Bid</u> <u>Pages</u></p> <p>ANNEX-1A (Technical Bid-Qualifying Criteria) 03</p> <p>ANNEX -1B (Scope of Work & Technical Terms and Conditions) 14</p> <p>ANNEX -1C (General Terms & Conditions of Contract) 09</p> <p>ANNEX -1D (Special Terms & Conditions of Contract) 02</p> <p>ANNEX - A (Declaration) 01</p> <p>ANNEX - B (No deviation certificate) </p> <p>ANNEX - C (Tender Opening authorization letter) 01</p> <p>ANNEX - D (EFT Format) 01</p> <p>ANNEX - E (CA Certificate for MSE Bidder) 01</p> <p>ANNEX -F (EMD payment Instruction E-COLLECT) 01</p> <p><u>B] Part- II Price Bid</u> <u>Pages</u></p> <p>ANNEX –II (Price bid) 03</p>
8.	Address for submission of offer	<p>PHILIP P G, SM / WCM Works Contracts Management (WCM) Building 53, First Floor, BHEL, High Pressure Boiler Plant, Trichy – 620 014</p> <p>Note: The offer may be submitted in person by dropping the same in tender box kept at above mentioned address.</p>
9.	Contact details for queries related to tender	<p>Satya Prakash, Dy. Manager / WCM; 0431 257 5242; e-mail: satyaprakash@bhel.in</p> <p>Philip P G, SM/ WCM; 0431 257 1913; e-mail: philip@bhel.in</p>
10.	Contact details for queries related to scope of work	<p>Shri Sanjay Kumar Sr. Manager / OP&C / ATP 0431 257 5678; e-mail : ksanjay@bhel.in</p>
11.	Due date for submission of offer	02.07.2019/ 10:00 Hrs.
12.	Due date for opening of Techno -Commercial Bid	02.07.2019/ 10:30 Hrs.

INSTRUCTIONS TO THE TENDERER

The offer may be sent by registered post / courier to SENIOR MANAGER, Works Contracts Management, 53 Building, BHEL, Tiruchirappalli 620 014 or may be dropped in person in the Tender Box kept at Works Contracts Management, 53 Building, BHEL, Trichy- 620 014 or **may also be submitted through e-mail to satyaprakash@bhel.in / philip@bhel.in as 1) Part-I (Techno-Commercial bid) & (2) Part-II (Price bid) in separate password protected pdf. files along with details of payment made against EMD vide SBI Collect (Done before tender opening) on or before due date of submission of offer as per Notice inviting tender. The password shall be sent to above mentioned e-mail ids only on request.**

BHEL shall not be responsible for any postal delay or delay in receipt of offer sent through e-mail due to any reasons. Offer received after due date and time will not be considered for evaluation.

Bidder shall submit their offer in two parts viz. (1) Part-I (Techno-Commercial bid) (2) Part-II (Price bid)

1. Envelope No- 1: Part-I (Techno-Commercial bid): This cover should be sealed and super scribed as Part-I "Technical Bid for name of the Work and Tender enquiry no". This cover should contain signed and stamped accepted tender document, No Deviation certificate and documentary evidence in support of information furnished in tender.

No deviation certificate should be submitted in the vendor Letter head (Format attached as annexure-A) with duly signed and stamped as token of acceptance to the scope of work and tender terms and Conditions.

2. Envelope No- 2: Part-I (Earnest money Deposit): This cover should be sealed and super scribed as Part-I "Earnest Money Deposit (EMD)" for name of the Work and Tender enquiry no". This cover should contain EMD in the form of Cash deposit (Done before tender opening) / Bankers Cheque / Pay order / DD / FDR drawn in favor of BHEL, Trichy (Along with offer)/ EFT payment details vide SBI Collect as EMD (Done before tender opening) or valid documents in support of being MSE (Micro or small Enterprise).

3. Envelope No- 3: Part-II (Price bid): This cover should be sealed and super scribed as Part-II "Price bid for name of the Work and Tender enquiry no". This cover should contain price bid as per tender document with quoted rates for the scope of work and applicable taxes (GST).

Any other information in price bid will not be considered. The envelope shall be sealed and super scribed as Price Bid for NIT / Enquiry No.

4. Envelope No- 4: Offer: This cover should be sealed and super scribed as "Name of the Work and Tender Enquiry Number" as per NIT. This cover should contain above mentioned three covers: Envelope No- 1: Part-I (Techno-Commercial bid), Envelope No- 2: Part-I (Earnest money Deposit) and Envelope No- 3: Part-II (Price bid).

Note:

1. The quoted rates shall be valid up to **180 days** from date of Tender opening.
2. The rates shall remain firm for the entire period of the contract in case WO is awarded.
3. If the Contractor back outs after opening of technical bid / Price bid / award of work, the contractor is liable for forfeiture of the Earnest Money Deposit (EMD) and Security Deposit (SD) paid.
4. **Evaluation of the offer shall be done on "Net Cash outflow to BHEL after taking into account applicable Taxes and Duties".**
5. **BHEL reserves the right to increase or decrease the tendered quantity.**
6. **BHEL does not guarantee any minimum quantity.**
7. Income Tax deduction at source as applicable in the IT Act from time to time will be made on the value of the bills in the absence of Income Tax Exemption Certificate from the concerned IT officer.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

IMPORTANT POINTS TO BE TAKEN CARE OF WHILE SUBMITTING OFFER.

- (a) Should a Tenderer find discrepancies or omissions in the Tender documents or should there any doubt as to their meaning, he should at once address the authority inviting the Tender, for clarification well before the due date, so as to submit his Tender in time. (No extension of time shall be given for submission of the Tender on any account)
- (b) Conditional and late Tenders, Tenders containing prima-facie absurd rates and amounts, Tenders which are incomplete or otherwise considered defective and Tenders not in accordance with the Tender conditions herein contained and the Tenders not in original **ARE LIABLE TO BE REJECTED**
- (c) New vendors responding against BHEL web site / NIC / CPPP, may visit the area of work, if they want, to know the scope / work details and also area of work, prior to quoting.
- (d) All pages of the tender document and supporting documents shall be dully signed, stamped and Submitted along with the offer as token of acceptance.
- (e) Documents not signed and stamped by the authorized signatory of the bidder shall not be accepted and considered for evaluation of bid.
- (f) Any additional documents submitted by the bidder during processing of the tender shall not be accepted unless it is dully signed, stamped even if the documents are received in soft form.
- (g) All entries in the Tender documents should be in one ink. Erasures and overwriting are not permitted. All cancellations and insertions should be duly attested by the Tenderers concerned.
- (h) Bidder has to quote as per the Work / Rate schedule. Price bid quoting in any other form will not be accepted and will be rejected.
- (i) Bidder has to quote in figures as well as in words for all the items shown in the attached schedule. Wherever there is a difference in the two, the rates quoted in words will be taken as final.
- (j) The Tender must be signed separately and legibly by Partner / Director of the Firm or by the person holding the Power of Attorney on behalf of the Firm concerned. In the latter case, a copy of Power of Attorney, duly self-attested must be accompanied.
- (k) If a Tenderer deliberately gives wrong information in his Tender or creates conditions favorable for the acceptance of his Tender, the BHEL will REJECT SUCH TENDER AT ANY STAGE.
- (l) Words imparting singular number shall be deemed to include plural number and vice-versa where the context so requires.
- (m) Canvassing in any form in connection with Tenders is strictly prohibited and the Tenders submitted by the Contractors who resort to canvassing will be liable for rejection.
- (n) Should a Tenderer's or a Contractor's or in the case of a firm or company of Contractors / any of its Directors / Managing partner's / Managing director and there elative is employed in BHEL, the authority inviting the Tenders shall be informed in writing of this fact at the time of submission of the Tender, failing which the Tender may be disqualified, or if such fact subsequently comes to light, the Contract may be cancelled.
- (o) The Tender schedule and the Tender shall be deemed to form an integral part of the Contract to be entered into for this work.
- (p) Submission of Tenders by electronic media like e-mail, Internet, fax etc. followed by hard copy, is acceptable and will be at the sole risk of the Tenderer. The Tenders thus submitted will be final and binding on the Tenderer. BHEL will not be responsible for any consequences that may arise in this regard.
- (q) Late and Delayed Tenders will be summarily rejected and under no circumstances it will be considered and accepted.

- (r) **Offer without EMD / supporting documents to avail waiver of EMD in separate Cover will be summarily rejected.**
- (s) The contractor must satisfy himself by personal study and examination of the specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract.
- (t) Tenderers shall pursue carefully the instructions and directions to parties in tendering and the conditions of the agreement and all other relevant documents before tendering the rates for the work. The approximate quantity of work to be executed under each clause is given in the schedule. The quantities are given with a view to enable tenderer to quote his overall rate for each class of work in the tender form and for a uniform comparison of tenders. It shall be definitely understood that BHEL does not accept any responsibilities for the correctness or completeness of this schedule and the schedule is liable to alternations by omissions, deductions or additions at the discretion of accepting authority. In case of any doubts/clarifications, he is advised to approach BHEL-Trichy before tender submission.
- (u) Before quoting rates for the work, the tenderer shall inspect the site of work, and should satisfy himself about the nature and scope of work to be executed. BHEL will not, however, after acceptance of a contract rate, pay extra charges for any other reason. In case the contractor is found later on to have misjudged the nature and scope of the work and also the availability of materials, no separate scheme will be provided for estimation.

NOTE

- *BHEL may reject the bid or in case the contract has been awarded, terminate the contract apart from taking any other suitable action under the contract or applicable legal provisions or BHEL guidelines including Guidelines for suspension of Business Dealings, without any liability for any compensation to the bidder if, BHEL discovers at any time that any statement made by the bidder in the affidavit cum undertaking is false, fraudulent*

Or

Any document submitted by the bidder was fake and forged

Or

If BHEL determines in the sole discretion that any statement was aimed at deliberately misleading BHEL with a view to ensure award of the subject contract to the bidder.

Check list for submission of offer

Sl. No	Description	Remarks
1	Separate Part-I: EMD cover containing Earnest Money Deposit amount of ₹ 18,520/- and super scribed with Tender reference number and Name of work.	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
1.1	<p>a. EMD may be submitted in the form of Cash deposit (Before tender opening) / Bankers Cheque / Pay order / DD / FDR drawn in favor of BHEL, Trichy (Along with offer)/ EFT payment details vide SBI Collect as EMD (Before tender opening).</p> <p>b. EMD is waived off based on submission of UAM along with CA Certificate (As per Annexure-I of tender document) issued for latest financial year ending on 31st March 2018 or later / Valid EM-II with deemed validity of five years from the date of issue of EM-II as on date of technical bid opening / EM-II along with latest CA certificate (As per Annexure-I of tender document) issued for latest financial year ending on 31st March 2018 or later where deemed validity of five years is expired / Valid NSIC Registration Certificate as on date of technical bid opening / Valid Registration to any other body as specified by ministry of MSME.</p> <p>EMD in any other form (One Time EMD, BG for full amount of EMD etc.) is not acceptable.</p>	
Sl. No	Description	Remarks
2	Separate Part-I: Technical Bid cover (superscribed with Tender reference number and Name of work) containing duly filled, signed and stamped copy of tender document along with following supporting documents to meet the pre-qualification criteria.	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
2.1	Duly signed and stamped copy of documentary evidence in support of Status of the Enterprise/ Company/ Firm as indicated in pre-qualification criteria.	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
2.2	Duly signed and stamped copy of documentary evidence for Experience of execution of one contract as per scope of work or works of similar nature related to Pickling & Passivation of Components / consumables in any Central / State Govt. / PSU / Private company executed after 31st March, 2011 as per C: "Pre- qualification Criteria: Technical competency & Financial soundness" of technical bid.	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not Enclosed
2.3	Duly signed and stamped copy of Income Tax Registration (PAN)	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
2.4	Duly signed and stamped copy of Goods and Service Tax (GST) Registration Document	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed

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Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

2.5	Duly signed and Sealed copy of “No deviation certificate” and “Declaration” in letterhead as per enclosed Annexure-A & B of tender document	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
3	Separate Part-II (Price Bid) cover (superscribed with Tender reference number and Name of work) duly filled, signed and stamped.	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
4	All the above documents / covers kept in separate Envelope and superscribed with Tender reference number and Name of work	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
<p>Note: Bidders are requested to submit documents to meet the pre-qualification criteria of tender only. Additional documents not relevant to tender pre-qualification criteria / tender need not be enclosed along with the offer</p>		

PART-I (TECHNO COMMERCIAL BID)

A: (Bidders Profile)

1.	Name of the Enterprise/ Company/ Firm.	
2.	Name of Directors / Partners / proprietor of Enterprise/ Company/ Firm	
3.	Registered Address of Enterprise/ Company/ Firm	
4.	Contact Details : Landline /Mobile number:.	
5.	E-mail Address for communication w.r.t tender / award of work.	
6.	Name and Contact details of person for communication related to Tender	
7.	BHEL Vendor Code (If any)	BHEL- Trichy Vendor Code: (If vendor code is not available, kindly Submit the original RTGS Format duly filled and signed as per Annexure-C along with cancelled cheque leaf)
8.	PF Registration (As applicable) To be obtained before start of work if already not registered	() Registered () Not Registered PF Registration No: (Copy of registration to be attached)
9.	ESI Registration (As applicable) To be obtained before start of work if already not registered	() Registered () Not Registered ESI Registration No: (Copy of registration to be attached)
10.	Labour License (As applicable) To be obtained after award of work and before start of work	() Registered () Not Registered Labour License No: (Copy of Labour license to be attached)

NOTE:

If vendor fails to get PF / ESI /Labour License (As applicable) before start of work, EMD / SD shall be forfeited and penal action shall be taken as per Extant rules of BHEL.

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Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

B: Pre- qualification Criteria: Earnest Money Deposit (EMD) & status of firm

1	<p>EMD amount: ₹ 18,520 /- (Rupees eighteen thousand five hundred and twenty only)</p> <p>EMD may be submitted in following ways:</p> <p>i) Electronic fund transfer credited in BHEL account (Before Tender Opening). (Refer Annexure –C for making EMD payment through SBI-E collect)</p> <p>ii) In the form of Cash deposit (Done before tender opening) / Bankers Cheque / Pay order / DD / FDR (Along with offer) drawn in favour of BHEL - Trichy, payable at Trichy issued by Scheduled Bank / Nationalized bank / Consortium banks.</p> <p>EMD in any other form (One Time EMD, BG for full value of EMD etc.) is not acceptable.</p> <p>EMD is waived off based on submission of UAM along with CA Certificate (As per Annexure-I of tender document) issued for latest financial year ending on 31st March 2018 or later / Valid EM-II with deemed validity of five years from the date of issue of EM-II as on date of technical bid opening / EM-II along with latest CA certificate (As per Annexure-I of tender document) issued for latest financial year ending on 31st March 2018 or later where deemed validity of five years is expired / Valid NSIC Registration Certificate as on date of technical bid opening / Valid Registration to any other body as specified by ministry of MSME.</p>	<p>DD/ FDR / PAY ORDER DETAILS:</p> <p>AMOUNT: ₹</p> <p>INST. NO:</p> <p>INST. DATE:</p> <p>ISSUING BANK:</p> <p style="text-align: center;">OR</p> <p>RTGS PAYMENT DETAILS:</p> <p>AMOUNT: ₹</p> <p>RECEIPT NO:</p> <p>RECEIPT DATE:</p> <p>BANK DETAILS:</p> <p style="text-align: center;">OR</p> <p>MSME / NSIC / SSI REG. DETAILS:</p> <p>REG.NO:</p> <p>REG. DATE:</p> <p>REG. CATEGORY:</p> <p>() MICRO / () SMALL</p>
2.	<p>Status of the Enterprise/ Company/ Firm.</p>	<p>Status:.....</p> <p>Reg. No:</p> <p>Reg. Date:</p> <p>(Vendor to provide the details and copy of document in support of above)</p>
<p>Following documents may be submitted based on status of Enterprise/ Company/ Firm.</p>		
2.1	<p>Sole Proprietorship</p>	<p>Trade License / GST registration / Auditor's letter</p>
2.2	<p>Partnership</p>	<p>Registered Partnership Deed and (Trade License / GST registration)</p>
2.3	<p>Private Limited Company / Public Limited Company / Public Sector / Govt. Org</p>	<p>Certificate of Registration/Memorandum of Association & Articles of Association</p>

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Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

C: Pre- qualification Criteria: Technical competency & Financial soundness

1	Work Experience
1	<p>Experience of execution of at least one contract as per scope of work or works of similar nature related to Pickling & Passivation of Components / consumables in any Central / State Govt. / PSU / Private company executed after 31st March, 2011.</p> <p>(Experience proof from BHEL shall contain work order copies and experience proof from other than BHEL shall contain work order / agreement copies along with Form 26AS / TDS certificate / bank statement for payment from the organisation for the work executed to be enclosed.)</p>
1.1	<p>Details of Work Order /Agreement to be considered against work experience:</p> <p>WO / Agreement Ref No.....Customer:</p> <p>Name of Work:</p> <p>Contract Value: Contract Period:</p> <p>WO / Agreement copy: () Enclosed / () Not Enclosed</p> <p>Form 26AS/ TDS certificate / Bank statement for payment received from customer against the above contract () Enclosed / () Not applicable for BHEL Work orders.</p>

D: Pre- qualification Criteria: Statutory requirements & acceptance to Tender terms & conditions

1	Income Tax Registration (PAN) (Documentary evidence to be enclosed)	<p>PAN:</p> <p>Self-attested copy of Income Tax Registration</p> <p><input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed</p>
2	Goods and Service Tax (GST) Registration (If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer)	<p>GST No:</p> <p>Self-attested copy of Goods and Service Tax (GST)Registration</p> <p><input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed / <input type="checkbox"/> Exempted</p>
3	Duly signed and Sealed copy of “ No deviation certificate ” and “ Declaration ” in letterhead as per enclosed Annexure-A & B of tender document.	<input type="checkbox"/> Enclosed / <input type="checkbox"/> Not enclosed
4	Vendor’s acceptance for quoting for all items of BOQ.	<input type="checkbox"/> Accepted / <input type="checkbox"/> Not Accepted
5	Applicable GST % against the scope of work	<p>_____ % GST</p> <p>(Vendor to confirm)</p>

NOTE: Self attested copy of all the documents should be submitted along with Tender, if at any stage, the document(s) submitted by Contractor is / are found incorrect / false / fake, the necessary action will be taken by BHEL against Contractor viz., legal, Contractual, BHEL Policy / Procedural Actions in whatsoever manner as deemed fit.

The bidder shall sign on all the copies of technical bid and affix his seal

PART-I (TECHNO COMMERCIAL BID)

SCOPE OF WORK AND TECHNICAL TERMS & CONDITIONS

A. BILL OF QUANTITY

Sl No	Description of work	Procedure	Description of component	UOM	Approx. Qty
1	Pickling of Titanium wire	PR: CHEM: 07-26 Rev:00 DT: 07.06.2007) - Annexure-I	Consumable(Dia. 0.8(Alloy-PT7MCB), 1.6 (Alloy-2B) , 3.0 (Alloy-2B) etc.,)	Meter	900
2	Degreasing of Titanium components and Sub assembly	PR:CHEM:07-30/01 DT 24-09-2009	Ti components: (Elbow,Extn.Ring, Baffles, Tubes, Tube sheet, Shells etc.,)	Square meter	180
3	Pickling and Passivation of SS component	PR:CHEM:07-19/01 Dt 21-04-1999	SS components (Nozzles,Covers,comb supports, Header elbows, Shrouds, collector cone, Central pipe etc.,)	Square meter	30
4	ID /OD cleaning of SS tubes	PR:CHEM:07-25/00 dt 16-05-2007	SS tubes (Dia 17X2-300 M & Dia 28X3-1200 M)	Meter	1500
5	Degreasing and Pickling of Titanium consumable	PR:CHEM:07-26 dated 07/06/2007	Consumable (0.8 (Alloy PT-7MCB), 1.6 (Alloy PT-7MCB) ,2.0 (alloy-PT7MCB ,Alloy-2B) , 3.0 (Alloy-PT-7MCB) etc.,	Kg	60
6	Pickling and Passivation of SS component	PR:CHEM:07-19/01 Dt 21-04-1999	SS components (Body, Cover, Nozzles, Support, Sleeve, Steam discharge nozzle assy etc.,)	Square meter	100
7	Pickling of Titanium Tubes	PR:CHEM:07-25/01 Dt 16-05-2007	Ti Tubes pickling - Dia 18x2.5mm thick-100mm length only out of 7MR/14MR length	Number	3000
8	Degreasing and Pickling of Titanium plates/Sheets	PR:CHEM:07-25/00 Dt 16-05-2007	Titanium plate/Sheet (1,1.5,2,3 & 5mm thick)	Square meter	150
9	Buffing and painting of housing assembly(CS body assembly)	PR:CHEM: 07-14/02 dt 07-06-2007	Housing assembly (Shell, Bottom, Feed pipe, Elbow)	Square meter	60
10	Pickling of Titanium Wire	PR:CHEM:07-26/00 Dt 07-06-2007	Consumable (0.8 (Alloy PT-7MCB), 1.6 (Alloy PT-7MCB) ,2.0 (alloy-PT7MCB,Alloy-2B) , (3.0Alloy-PT-7MCB) etc.,	Meter	1800

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

11	Degreasing of Titanium components and Sub assembly	PR:CHEM:07-30/01 DT 24-09-2009	Ti components (Shells, Top/Bottom tube sheets, Top/Bottom dished ends, Nozzles, Box noz. assy, Ring & spacers, QC blocks etc.,)	Square meter	450
12	ID /OD cleaning of Titanium tubes	PR:CHEM:07-30/01 dt 24-09-2009	Ti tubes - ID/OD of 2 MR length	Number	2000
13	Pickling and Passivation of SS component	PR:CHEM:07-19/01 Dt 21-04-1999	SS components (Inner & Outer thermal shield assy, Upper plate assy, Ring header assy, Shell-5 assy, Thermal insulation assy-1 & 2, Cavity seal support assy etc.,)	Square meter	200
14	Pickling and Passivation of Copper Gasket	PR:B2/B3:CU/00 Dt 23/02/2017	Pickling & Passivation of Copper gasket	Number	3
15	Painting of CS body assembly	PR:CHEM: 07-14/02 dt 07-06-2007	Body assembly & BDH	Square meter	20
16	Painting of CS body assembly	PR:CHEM: 07-14/02 dt 07-06-2007	Shell + BDH assembly	Square meter	40

B. SCOPE OF WORK

1. Collection of Titanium / SS consumables / Plates / sheets /components from ATP Shop.
2. Cleaning / degreasing / pickling / Painting shall be done as per procedure mentioned in the Bill of quantity. (The contractor shall have to work in both morning and evening to cater Day and Night shift requirements.)
3. The contractor has to arrange required quantity of chemicals/other items as per procedure mentioned in the Bill of quantity.
4. After cleaning/degreasing/pickling, surface check shall be successfully done and shown to C 'Lab / BHEL & QS /BARC Inspection. If not satisfactory, again repeat to be done till it gets accepted by the concerned agency. Work completion certificate approved by shop in-charge and lab shall be submitted to ATP/OP&C for final certification.
5. The contractor has to come to BHEL - ATP shops whenever called by shop on daily/alternate/weekly basis as per shop requirement. Movement of components/consumables from shop to pickling/cleaning area and back to shop is in vendor scope. Sufficient manpower's shall be engaged on need basis depending on length/size/Qty. of job offered to the S/cr. While handling of Components/consumables, scratches, dents and damages shall be avoided.

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

6. SS tank, heating facility (Burner with producer gas/LPG), DM water, Acetone, Spirit, Nitrogen, Lint free cloth, polythene and emery sheet will be provided by ATP shop.
7. All consumables like lint free cloth, acetone, SS wire brush, DM water, Polythene sheets etc. will be provide BY BHEL
8. All the chemicals and acid required for Pickling & passivation of components shall be arranged by the Contractor
9. All safety items like shoes, rubber gloves, aprons, respirators, safety glasses to the work-men shall be supplied by the contractor
10. Careful handling of components/sub assembly shall be done to avoid damages
11. After degreasing/pickling contact with foreign material shall be avoided
12. Degreasing/Pickling area shall be made clean after work and ensure proper disposal of used chemicals as per safety and EMS points as given below.
13. Drawing for the above items will not be given to Contractor. However, contractor can contact OP&C to see the components /assembly physically before contractor submit offer.
14. All safety precautions shall be followed while doing the job in BHEL.

B.1 PROCUDURES

I. PROCEDURE FOR CLEANING OF TITANIUM WELDING WIRES.

(PR:CHEM:07-26 Rev:00 Date: 07.06.2007)

Scope:

The following procedure explains the method for surface cleaning of Titanium Welding wires.

Degreasing

1. The welding wire shall be degreased as follows
2. The wire shall be degreased and pickled by the persons using white gloves only
3. The bath, hooks, tongs etc. used for degreasing and pickling shall be made up of stainless steel material only

Degreasing solution

a)	Sodium Phosphate	10-20 g/l
	Calcinated soda	10-20 g/l
	Caustic soda	20-40 g/l
	Balance	Potable Water
b)	Cinatonol cintamid-5 / Washing powder	5-10 g/l
	Trisodium phosphate	(Na ₃ po ₄) 30-35 g/l
	Balance	Potable Water

The welding wire bundle has to be degreased using one of the solutions mentioned above.

- The concentration of the above degreasing solutions bath
 1. Weights of the chemical in gram
 2. Volume of water in litreShall be recorded before preparing solution
- The welding wire bundle has to be dipped in the bath at 70 to 80oc for 20 to 30 min. after degreasing, to remove the chemicals lift the bundle using special hangers and wash with 40 to 50oc hot portable water. (10-20 min) and then with cold DM water also, till the washing are free from chemicals

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

- After through rinsing with cold DM water, the rinsing does not show any free alkalinity with phenolphthalein indicator (the rinsing should not show pink colour with the indicator)
- Then dry the wire bundle using hot air.

Inspection and acceptance

- The effectiveness of degreasing shall be ensured, by comparing the silver lustre of the degreased wire with standard sample.
- The degreasing wire shall be used for welding after final cleaning with sprit and if welding gives lustre silver colour, it is acceptable, if not the degreasing shall be repeated on above.

Pickling

- If black patched (due to oxides and graphite grease) are found and also if Temper colour indicative of surfaces oxidation are not noted on the filler wire, the wires should undergo pickling.
- The welding bundle shall be picked using the following acid mixture.
 - Hydrofluoric acid : 15% V/V
 - Portable Water : remaining
- The concentration of the above pickling solutions bath
 1. Volume of hydrofluoric acid in litres and
 2. Volume of water in litre
- Shall be recorded before preparing solution
- Tank made by stainless steel / polyvinyl or similar material shall be used for preparation of above acid bath.
- The welding wire bundle has to be immersed on the above bath at room temperature (18-25o C) for 8 to 15 Min (deepening on wire surface)
- Minimum consumption of pickling solution will be one litre per two Kg of wire.

Rinsing after pickling operation.

- The welding wire bundle shall be thoroughly flushed with potable water.
- After thoroughly rinsing with cold water, the rinsing does not show any free acidity when tested with methyl orange indicator (the rinsing should not show red colour with indicator)

Rinsing with demineralised water.

- After rinsing with service water the component shall be rinsed with demineralised water
- After the end of rinsing operation with DM water, the rinsing does not show opalescence with 1% w.v silver nitrate solution.

Inspection.

- After completion pf pickling operation,
- The pickling surface shall have good silvery lustre colour.
- Absence of stains, dark stripes, patches, temper colour are indicator of good pickling
- Hydrogen % content shall be checked before and after pickling. If the (%) of hydrogen exceeds 0.0024 vacuum degassing shall be done as per the procedure for vacuum degasification.

Preservation

- The pickling surface shall not be touched with bare hand or in contact with any other surface.
- Welding wire bundle shall be packed in lint free cloth and polythene sheets to prevent shop floor contamination till they are taken for further welding operation.
- The wire bundle shall be stored in closed dry PVC/SS containers with proper identification tag.

Safety precautions

- All safety precautions shall be taken while handling the acids
- Rubber gloves, aprons, respirator and safety glasses shall be used by the personnel who are performing/ supervising the aforesaid operations.
- The entire operation shall be carried out in a clean room with ventilated area.
- The quality of DM water for the rinsing operation shall be as follows.
 - PH : 6.5 to 7.5
 - Conductivity : less than 10us/cm
 - Chloride : less than 0.5 ppm

II. PROCEDURE FOR SPOOLING AND PACKAGING OF TITANIUM WELDING WIRES.

(PR: CHEM:07-26 Rev:00 Date: 07.06.2007)- Annexure-I

Spooling of degreased filler wires

- Clean the machine thoroughly and ensure the parts of the machine that will come in contact with the degreased filler wire are free from dust, oil, grease, lubricant and any other impurities that will contaminate cleaned wires.
- Use SS roller in the machine during straightening and spooling of titanium wires.
- Straighten the wire to remove any bend, kink and then wind the wires to spool.
- Wind the wires uniformly layer by layer on the PVC spool. After winding, tie up the spool using same wire at four places.
- Wire after straightening and winding shall be free from silver, depressions, scratches, scale, seams, and foreign matter that would adversely affect the welding characteristics, the operation of the welding equipment, or the properties of the welding metal.
- The weight of the wire in the spool shall be 0.25 kg for dia 0.8mm wire,
- 1 Kg for dia 1.6mm wire and 3 Kg for all remaining dia. If the wires. The bare wire of diameter 08mm to be spooled on 100 mm spool, of 1.6mm and 3.0mm to be spooled on 300mm spool.

III. PROCEDURE FOR PICKLING OF TITANIUM WELDING WIRE FOR ECDS.

(PR: CHEM:07-26 Rev:00 Date: 07.06.2007)

Procedure:

1. Clean the Consumable surface thoroughly by emery sheet of grade 400. Minimum 16 passes (4 passes/ sheet) and again be cleaned with Birla 3M emery for 6 times.
2. Clean the surface with spirit soaked lint- free white cotton cloth till no dirt is picked up. While doing this, the person who is doing the process has to use white lint- free cotton gloves to handle the wires.
3. Clean the surface with dry white cloth.
4. Place the wire with vessel filled with pickling solutions (of 15% Hydrofluoric acid and remaining 85% of potable water) for 30 seconds. Then, the wire is taken out from the solutions and rinsed with potable water followed by rinsing in de-mineralized water.
5. After the above operations, the pickled surfaces of the wire shall have GOOD SILVERY LUSTER COLOR. Absence of stains, dark stripes, patches, temper colours are indication of good pickling. It shall be checked by QC/BHEL.
6. Pickled wires shall not be touched with bare hand or in contact with any other surfaces. Preserve the wires in a lint-free white cloth.

IV. PROCEDURE FOR PICKLING OF CU GASKET.

(PR:B2/B3:CU/00 Date: 23.02.2017)

1. Cleaning by water.
2. Cleaning by Trichloro-ethylene.
3. DM water cleaning.
4. Preparation of pickling solutions:
 - a) Add following chemicals to prepare solutions
 - b) Ortho phosphoric acid – 400ml (100% concentrate)
 - c) Acetic acid – 250ml (100% c concentrate)
 - d) Nitric acid -200ml (50% concentrate)
 - e) 4 drops of Hydrofluoric acid (100% concentrate) No water
5. Immersion of job in pickling solutions for 5- 10 seconds, water cleaning and then swabbing if required.
6. Water cleaning for 10 mins (minimum) with adequate flow and ensure removal of chemicals.
7. Drying.
8. Acceptance: Uniform colour .

V. PROCEDURE FOR PAINTING.

(PR: CHEM: 07-14 Rev.: 06 Date: 21.09.2012)

Scope:

1. The following procedure details the methods for pre-treatment and painting of the exterior surface of components.

Pre-treatment:

1. The component shall be inspected thoroughly prior to painting, to ensure that the surface is free from, oil and other external contaminants.
2. The surface shall be thoroughly cleaned using solvents like Acetone/ Trichloroethylene/Petroleum solvents.
3. The inspection shall be carried out for the total removal of greases/oil by water film break test (Water film break test is performed by wetting the surface with water and observing the pattern of wetting).
4. The areas, where the water is not uniformly wetting and shattering into tiny droplets, shall be further cleaned with alkaline degreasing agent.
5. After complete degreasing, the surface shall be rinsed with water till the surface is free of alkali and dried. Water film break test shall be further conducted to ensure the total removal of greases/oil.
6. In addition to above, the cleaned area shall be wiped with cotton cloth soaked in Acetone, particularly in areas where non- destructive examination had been carried out; the cloth shall not show any soil or dirt.
7. The substrate shall be further cleaned using power tool/ emery paper etc.
8. The surface shall be cleaned to remove any soil left power tool cleaning using white cotton cloth soaked in Acetone.

Painting:

1. The first coat of heat resistant aluminium paint which withstands a temperature of 400oc – IS 13183 Gr-2 (Ref. Clause 4.0) _shall be applied by spray or brush, within 4 to 6hrs. of power tool cleaning.
2. The paint film shall be allowed to cure for 48 hrs. in a day light or after 4 to 6 hrs., keep the assy in electric furnace for 4 to 6 hrs. at 180oc to 200oc
3. The dry film thickness (DFT) shall not be less than 20 microns
4. The second coat of the above paint shall be applied and allowed to cure fir min. 24 hrs. in a day light or after 4 to 6 hrs., keep the assy. in electric furnace for 4 to 6 hrs. at 180oc to 200oc
5. The DFT of the two coats (cumulative) shall not be less than 40 microns. After curing peel off test shall be carried out, the paint shall adhere tightly to the metal
6. Methods for determination of DFT in magnetic and non-magnetic materials by the following methods
7. For non-magnetic material and non-magnetic coatings – microscope method. Macroscopic examinations of cross section.
8. A part of painted article is cut out and mounted in resin and the film thickness is measured using microscope
9. A test coupon with area approximately 25mm square shall be simulated all the job condition is painted along with the job.
10. Take measurements at seven places along the edge of the paint film and calculate the mean thickness.

(As per IS 101/part 3/sec 2:1989. Reaffirmed 2004)

Reproducibility : $\pm 10\%$
Bias : $2\mu\text{m}$

11. For magnetic and non-magnetic coatings – magnetic method. (Elcometer method)
12. A standard Elcometer can be used to measure the coating thickness, and minimum of seven readings shall be taken to obtain representative results over the painted area.

Reproducibility : $\pm 10\%$
Bias : $2\% + 1\mu\text{m}$

Details of Paints:

1. The heat resistant aluminium paint which withstands a temperature of 400oc of IS 13183 Gr-2 (latest) shall be procured from BHEL approved suppliers.

VI. PROCEDURE FOR CLEANING, PICKLING / DESCALING AND PASSIVATION OF STAINLESS STEEL (AUSTENITIC) COMPONENTS

(PR: CHEM: 07-19 / 01 Rev.: 1 Date: 21.04.1999)

SCOPE:

- The following procedure explains the method for surface cleaning, pickling / descaling and passivation of Stainless Steel (Austenitic) components.

CLEANING:

1. The Component shall be thoroughly swabbed with a lint free cotton cloth soaked in acetone.
2. Cleaning shall be carried out till fresh portion of the white cloth does not Pick up any soil from the surface of the components.

PICKLING / DESCALING

1. The component / part of the component which have undergone machining operation or machining by EDM wire cutting process shall be waived from pickling / descaling operation in consultation with NPC- QS
2. The components which have undergone heat treatment (solution annealing) / Welding operations shall be pickled / de-sealed so as to remove the black / brown oxide using the following acid mixture.

Nitric Acid	:	20% v/v
Hydrofluoric Acid	:	1 to 2 % v/v
Water	:	Remaining
3. The Tank made of Stainless Steel Material only shall be used for the preparation of the above acid bath.
4. The period of immersion shall be about one hour or till all the black / brown oxide on the component is removed.
5. The component shall be periodically scrubbed. with SS Wire brush to ease the removal of oxide layer.
6. The pickling / descaling shall also be also carried at 50 - 550 C
7. Alternatively, the pickling / &scaling operation shall.be "car-ried .out by applying an inert paste prepared using the above pickling solution, where the size and shape of the component is a constraint for immersion process

RINSING AFTEF. PICKLING. / DESCALING OPERATION:

1. The component shell be thoroughly flushed with service water and cleaned Well using lint free cotton cloth, to get a bright metal surface.,
2. After thorough rinsing, the rinsing's do not show any free acidity when tested with Methyl Orange indicator. (the rinsing do not show red color with the indicator)

RINSING WITH DM WATER:

1. After rinsing with service water the component: shall be rinsed With DM Water
2. At the end- of rinsing operation with DM water, the risings do not show opalescence with 1% W/v silver nitrate solution.

PASSIVATION

1. The passivation of the components shall be carried out in immersion process in a bath of nitric acid.
2. The concentration of bath shall be as follows.

Nitric Acid	:	20% v/v
Sodium Dichromate	:	5% W/v (for machined Components only)
DM Water	:	remaining
Temperature	:	Ambient temperature
3. tank made of stainless steel material only shall be used for the preparation of this acid bath.
4. period of immersion shall be 30 minutes to one hour or till the passivation of the surface is obtained, which is revealed by passivation test kit.
5. alternatively passivation operation shall also be carried out by the applying an inert paste having the above composition, where the size and shape of the component is a constrained for immersion process

RINSING AFTER PASSIVATION

1. The component shall be thoroughly rinsed with DM water.
2. the rinsing operation shall be carried out till the rinsing do not show any free acidity when tested with methanol orange indicator.

INSPECTION:

1. After passivation, passivity check for the presence of iron using passivity test kit, at random shall be conducted on the surface. For components that having undergone machining EDM wire cutting process shall be checked for presence of copper and iron using copper sensitive kit and passivity test kit
2. if the passivation is found to be satisfactory, the component / areas where the test had been carried, shall be rinsed with DM water and dried using compressed air, Free from oil dust and Moisture

PRESERVATION

1. The component shall be handled using clean cotton gloves.
2. the component shall be packed in polythene sheet to prevent shop floor contamination, till it is taken up for further operation.

SAFETY PRECAUTIONS

1. All the safety precautions shall be taken while handling acids.
2. Rubber gloves, aprons, respirator and safety glasses shall be used by the personnel who are performing . supervising the above said operations.
3. The entire operation shall be carried in ventilated area.

QUALITY OF DM WATER.

1. The quality of DM water to be used shall be as follows.

Ph	:	6.5 -7.5
Ch	:	less than 1.0
Conductivity, micro Siemens per cm	:	less than 10.0

REFERENCE.

The above operations are in line with ASTM A 380

NOTE

The exacta method of pickling / descaling and passivation operation (either immersion or paste application) to be adopted for specific components shall be agreed upon between BHEL and NPC and the same be incorporated in the relevant OPS along with the procedure document number.

VII.PROCEDURE FOR DEGREASING OF TITANIUM COMPONENTS & SUB-ASSEMBLIES

(PR: CHEM: 07-30: 00 Rev.: 01 Date: 24.09.2009)

SCOPE:

The following procedure details the methods for degreasing of titanium components & Sub-assemblies and also removing the excess lubricant which remain on the interior surface of the tubes, after tube expansion.

FACILITIES

1. Two storage tanks made of stainless steel material with controlled heating facility (one for cleaning and other for DM Water)
2. Approved cleaning chemicals Maxiclin-2SP (a Proprietary alkaline degreasing chemical of M/s Plastipeel chemicals)
3. The quality of DM water shall be checked before use and shall meet the following requirements:
PH --- 6 – 7
Total Residue --- <2ppm
Total Chloride --- <0.05 ppm
Conductivity --- <2μ Mho/cm

CLEANING WITH ALKALINE DEGREASER:

1. In the first tank, prepare the cleaning chemical solution. The concentration of the bath shall be about 5% W/V of MAXCLINE-2SP
2. The temperature of the bath during the entire operation shall be maintained between 85 c and 90 c
3. The components shall be immersed in the hot bath solution of 5% W/V of MAXICLINE-2SP for 15 minutes. During dipping operation the bath shall be agitated using compressed air free from dust and oil & grease. After 30 be carried out along with there test coupons shall be examined for the presence of oil and grease by water film break test. If the test is found to be OK, the component shall be lifted from the bath for flushing Before lifting the components for flushing the froth / oil floated on the surface of the bath solution shall be skimmed off to avoid contamination

FLUSHING:

1. The degreased component shall be flushed with service water till the flushing does not show any pink colour with phenolphthalein.
2. Immediately after services water flushing. DM water shall be used for flushing till the flushing show no chloride when tested with silver nitrate

DRYING:

1. The DM water wetted surface shall be dried using oil and dust free compressed air or Nitrogen gas.

DOCUMENTATION:

1. The degreasing process for the component pertaining to specific work order shall be suitably documented.

VIII. PROCEDURE FOR PICKLING OF TITANIUM TUBS / PIPE AND PLATE EP FACES

(PR: CHEM: 07-25 Rev.: 00 Date: 16.05.2007)

SCOPE:

1. The following procedure explains the method for surface cleaning, pickling of Titanium Tube/Pipe and plate EP surfaces.

DEGREASING:

1. The component shall be thoroughly swabbed with lint free cotton cloth soaked in Acetone or sprit.
2. Cleaning shall be carried out till fresh portion of the white cloth does not pick up any soil from the surface of the component.

PICKLING:

1. The EP Faces and near by surfaces up to minimum of 100 mm on both ID and OD side shall. be pickled using the following acid mixture.

Nitric Acid	: 38 to 40 % V/V
Hydrofluoric Acid	: 3.5 to 4 % V/V
Water	: Remaining.
2. Tank made of stainless steel material only shall be used for the preparation of the above acid bath.
3. The period of pickling shall be about 9 to 11 minutes at room temperature for first pickling and 4 to 6 minutes for second pickling.
4. Alternately, the pickling operation shall also be carried out by swabbing the above pickling solution, where the size and shape of the component is a constraint for immersion process.

RINSING AFTER PICKLING /DESCALING OPERATION:

1. The component shall be thoroughly flushed with hot water having temperature > 70 C Water and cleaned well using lint free cotton cloth to get a bright metal surface.
2. After thorough rinsing with cold water, the rinsing does not show any free acidity when tested with Methyl Orange indicator (The rinsing do not show red color with indicator)

RINSING WITH DEMINERALISED WATER:

1. After rinsing with service water, the component shall be rinsed with DM Water (refer Para 9.0).
2. At the end of rinsing operation with DM water, the rinsing does not show opalescence 1% w/v silver Nitrate solution.

INSPECTION:

1. After completion of pickling operation, the pickled surfaces shall have good silvery Luster colour, If not repeat the pickling operation (maximum of Two pickling operation allowed)

PRESERVATION:

1. The Pickled surfaces shall not be touched by bare hand or in contact with any other surfaces
2. The component shall be packed in lint free cloth and polythene sheet to prevent shop floor contamination till taken for further welding operations.

SAFETY PRECAUTIONS:

1. All safety precautions shall be taken while handling the acids.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

2. Rubber gloves. Aprons, respirator and safety glasses shall be used by the personnel who are performing/ supervising the aforesaid operations.
3. The entire operation shall be carried out in a clean room with ventilated area.
4. The quality of DM water for the rinsing operations shall be as follows:

PH	: 6.5 to 7.5
Conductivity	: Less than 10 µs/cm
Chloride	: Less than 0.5 ppm
5. After pickling the welding shall be done within 24 hours for auto welding and 36 hrs. for manual welding.
6. Before welding the pickled surfaces shall be cleaned with good quality spirit (The spirit shall not leave any residue on a clean glass plate after evaporation)
7. A mockup shall be conducted through Ops to quality the pickling procedure before applying it on jobs

REFERENCE:

1. The above operations are in line with reference given by ATP/welding methods

NOTE:

1. The pickling time, date, duration, pickling solution composition, temperature of pickling shall be recorded.

C. CONTRACT PERIOD AND PLACE OF WORK:

1. **Duration of the contract: Eighteen months** from the date of award of contract.
2. **Delivery Schedule:** The work shall be carried out within the stipulated time as per instruction of BHEL officials and as per scope of work.
3. The work shall be carried out at **BHEL-Trichy**.

a. LIQUIDATED DAMAGES (LD)/PENALTY:

If the contractor fails to complete the service/work as per terms & conditions of the order within the delivery schedule, the following penalties/LD will be levied:

Penalty @ 0.5 % of order value per week of delay in execution of work as per delivery schedule of scope of work or part thereof subject to maximum of 10 % of total order value.

In case of any amendment / revision, Penalty shall be linked to the amended / revised PO value.

D. PAYMENT TERMS:

1. Payment will be made after completion of work on pro-rata basis based on actual Services provided as per BOQ after acceptance and certification of Area in charge (BHEL Executive).
2. Along with bills, Contractors has to furnish copy of the following documents for further processing of bills:
 - a. The Contractor shall submit the bill within a week after at the end of each month in triplicate copies detailing the various items of work done during the month supported by the requisitions issued from time to time
 - b. Any other relevant document which is required from time to time as per BHEL requirement.
3. The Contractor shall, once in every month, submit to the respective area **HOD** separately details of their claims for the work done by them up to and including the previous. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done up to and including the period under report. Payment will be at the sole discretion of BHEL.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

4. The proof of execution of work should be submitted along with each bill (printed form with covering letter and proof for execution of work). Payment will be made after 45 days from the date of bills Submission.
5. If the Contractor is not registered for any statutory obligation and not liable thereto, then a declaration shall be submitted along with offer that they are within the threshold limit.
6. No advance may be paid for operational or any other expenses.
7. Goods and Services tax will be payable extra by BHEL at prevailing rates and corresponding TDS will be made as per Government norms.

E. OTHER TERMS & CONDITIONS FOR THE CONTRACTOR:

1. The contractor should bring contract labour to BHEL premises at his/her own cost, risk and execute the work allotted to him in BHEL premises.
2. The contractor should follow and comply with Minimum wages, ESI, PF, Bonus, Group Insurance and other statutory regulations as stipulated in Factories Act and other applicable State/Central Governments' rules and regulations.
3. Attendance register should be maintained by the contractor.
4. All safety equipment's to the workmen, safety rules & regulations are to be followed as per BHEL's Safety Rules and Regulations.
5. BHEL will no way be responsible for any loss of life or any injury caused to any of the contractors or their crew while executing the above work at BHEL premises.
6. The contractor or his/her crew should handle the machinery and other equipment's entrusted to them by BHEL with utmost care and return them safely after execution of stipulated work. The cost of damage, repair due to improper handling of machinery and equipment will be recovered from the contractor.
7. Contractor shall supervise the work carried out by his/her employees.
8. Contractor shall ensure that the employees deployed in the premises of BHEL are physically and mentally fit and do not have any criminal record. Such employees should possess requisite skill, proficiency, qualification, experience etc.
9. Contractor shall maintain appropriate records of his/her employees deployed to carry out the job(s).
10. Contractor will be responsible for the good conduct of his/her employees. In case of any misconduct/misbehaviour by any employee, the contractor will replace such employee(s) immediately.
11. Contractor will ensure that the job is executed through his/her employees on and under no circumstances, the contractor will not deploy any casual employee to carry out the job nor shall subcontract the job without prior written permission.
12. Contractor shall be solely responsible for non-payment, delayed payment of minimum contributions under EPF & MP Act, ESI Act, Bonus, etc.
13. In case, the contractor fails to make payment of wages to his/her employees or remittance of contribution to the concerned authorities, the security deposit, other dues/running bills under the contract can be utilized by BHEL to discharge the liability of the contractor.
14. The liability for any compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor.
15. Contractor shall observe provisions of the Factories Act, 1948 in respect of working hours, holidays, rest intervals, leave and overtime to his/her employee. No work shall be done on second/third shift, overtime, Sundays or on other declared holidays without written permission.
16. The contractor should maintain a 'Work Diary containing the details of work executed by him from time to time on Shift/Daily basis and obtain the signature from official concerned nominated for this/her purpose for having executed the work correctly and satisfactorily.
17. The proof of execution of work should be submitted along with each bill (printed form with covering letter and proof for execution of work).

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

18. The bill should be submitted within a week after execution of work during the calendar month @one bill per month.
19. Necessary gate entry pass will be issued by BHEL Security department for Contract Workmen based on your application duly forwarded by the Contract Executing Department and approved by HR/Welfare/Contract Cell on fulfilment of the Statutory Obligation by the Contractor.
20. In the event of termination of contract for any reason whatsoever, the contractor shall withdraw all his/her employees from the establishment of BHEL. In case, contractor decides to terminate services of his/her employees, he should settle all terminal dues including retrenchment compensation.
21. The Contractor may visit to the BHEL Premises before quoting to access the quantum of work.
22. Applicable Taxes, if any should be mentioned separately.
23. BHEL reserves the right to cancel/short close and terminate the contract at any point of time after giving initiation to the vendor.
24. BHEL will have nothing to do or be concerned with the employment of employees working for the contractor. The relationship between BHEL and the contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or on employer-employee relationship. Supervision of work shall be done by the contractor / his authorized Supervisor exclusive for this work only.

F. SAFETY POINTS:

1. The contractor shall be familiar with the Acid's properties and processes.
2. To create awareness necessary training to be given on "Handling of Acids and Hazardous chemicals" to all working and supervising persons with Laboratory Faculties.
3. Emergency procedures (Do's & Don'ts) and material safety data sheet (MSDS) of acid being used are to be displayed legibly at work spot.
4. Along with safety Shoes and Helmets Suitable Acid proof PPEs like Apron, Goggles, Gloves and Light Fume Respirator are to be used by working and supervising persons.
5. All working persons must be made aware of acid properties and suitable training session shall be arranged with laboratory faculties.
6. The activity shall be done in the presence of both BHEL as well as contract supervision.
7. Any other safety measure as necessitated by the nature of work should be strictly followed.
8. These safety measures shall be deemed to form an integral part of the work order/agreement.

G. EMS POINTS:

4. Suitable mechanism to be provided to control the spillage of chemicals.
5. The Effluents generated to degreasing, pickling etc., are to be neutralized and disposed safely.

PART-I (TECHNO COMMERCIAL BID)

ANNEXURE-IC

GENERAL TERMS & CONDITIONS OF CONTRACT

1. Definition:

In these General Conditions of Contract, the following terms shall have, I meaning hereby assigned to them, except where the context otherwise requires:

- a) The "Contract" means, the documents forming the tender and acceptance thereof, together with all the documents referred to therein including general and special conditions to contract. All these documents as applicable taken together shall be deemed to form one contract and shall be complementary to one another.
- b) The "Work" means, the work described in the tender documents in individual work orders as may be issued from time to time to the contractor by the Officer-In charge within the power conferred upon him including all notified or additional items of works and obligations to be carried out as required for the performance of contract.
- c) The "contractor" means, the individual Firm or Company whether incorporated or not, undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company or the successors of the firm or company and the permitted assigns of such individual or firm or Company.
- d) " The Officer-In charge" means, the Officer deputed by the BHEL to supervise the work or part of the work.
- e) "Approved" and "Directed" means, the approval or direction of the respective area **HOD** or person deputed by him for the particular purposes.
- f) "BHARAT HEAVY ELECTRICALS LIMITED" (hereinafter referred to as BHEL) shall mean the Board of Directors, Chairman, Executive Director, General Manager or, other Administrative Officer of the said Company including AGM / WCM authorised to invite tenders and enter into contract for works on behalf of the Company.
- g) The "Contract sum" means, the sum accepted or the sum calculated in accordance with the prices accepted in tender and / or the contract rates as payable to the contractor for the execution of the work during the currency of the contract.
- h) A "week" means, Seven Days, without regard to the number of hours worked or not worked in any day in that week.
- i) A "day" means, the day of 24 hours (TWENTY-FOUR) irrespective of the number of hours worked or not worked in that day.

2. Heading to the Contract Conditions:

The heading to these conditions shall not affect the interpretations thereof.

3. Deviations:

The contractor shall not carry out any work not covered by schedule except in pursuance of the written instructions of the respective area HOD/WCM. No such work shall be valid unless the same has been specifically confirmed and accepted by BHEL in writing and incorporated in the Contract.

4. Work to be carried Out:

The Contract shall include all labour which may be required for the execution of the work.

The Contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution of the work. No. extra charges consequent on any misunderstanding in these respects or otherwise will be allowed.

5. Assignment of Transfer of Contract:

The Contractor shall not, assign or transfer the contract or any part thereof, or any share, or interest thereon to any other persons.

6. Sub-Contract:

The Contractor shall not sublet any portion of the contract.

7. Compliance to Regulations and Bye-Laws:

The Contractor shall confirm to the provisions of any statute relating to the work and regulations and Bye-laws of any local authority. The Contractor shall be bound to give all notices required by statutory regulations or by-laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

8. Earnest Money Deposit (EMD) & Security Deposit (SD):

Earnest Money Deposit (EMD):

Tender must be accompanied by Earnest Money for the amount mentioned in tender notice, pledged to BHEL, Trichy in any of the forms mentioned below.

Modes of Deposit:

The EMD shall be accepted only in the following forms:

- a) Cash deposit as permissible under the extant Income Tax Act (before tender opening)
- b) Electronic Fund Transfer credited in BHEL account (before tender opening)
- c) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer)
- d) FDR issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
- e) In addition to the above, the EMD amount in excess of ₹ 2,00,000 /- (` two lakhs) also acceptable in the form of Bank guarantee from scheduled banks. The bank guarantee in such cases shall be valid for at least six months. (BG Format attached as Annexure-J)

Forfeiture of EMD:

EMD by the tenderer will be forfeited as per tender documents if

- i) After opening the Tender, the Tenderer revokes his Tender within the validity period or increase his earlier quoted rates.
- ii) If only, a part of the work included in the tender has been awarded to the tenderer and the tenderer refuses to take up the work the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.
- iii) The Tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / Contract is silent in this regard then within 7 days after award of Contract.

General Terms related to EMD:

Earnest Money Deposit (EMD) will not carry any interest.

Earnest Money Deposit (EMD) of the successful tenderer will be retained as part of Security deposit.

The Earnest Money Deposit (EMD) will be refunded to the unsuccessful tenderers within 15 days of acceptance of the award of work by successful tenderer / expiry of offer validity period

Security Deposit (SD):

The contractor whose tender has been accepted shall, within seven days of receipt of the notification of acceptance of his tender, should deposit Security deposit @ 5 % of Contract value.

EMD of the successful tenderer shall be converted and adjusted towards the required amount of **Security deposit (SD):**

Modes of Deposit:

The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:

- i) Cash (as permissible under the extant Income Tax Act)
- ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

- iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
- iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
- v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL)

General Terms related to SD:

The security Deposit will not carry any interest.

Security Deposit shall be released to the contractor upon fulfilment of Contractual obligations as per terms of contract.

BHEL, shall not be responsible for any loss of securities due to liquidation or any other reason whatsoever or any depreciation in the value of the Securities while in their charge or for any loss of interest thereon.

NOTE: Acceptance of Security Deposit against Sl. No. (iii),(iv) and (v) above will be subject to hypothecation or endorsement on the documents (Signature of the Branch Manager must be present) in favor of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

All compensation or other sums of money payable by the contractor to BHEL under the terms of this contract or under any other contract with BHEL, may be deducted from the Security Deposit or realized by the sale of the securities or from the interest arising there from or from any sums which may be due or may become due to the contractor payable by BHEL, on any account whatsoever against this contract or any other contract with BHEL and in the event of his Security Deposit being reduced by reason of such deductions or sale as aforesaid, the Contractor shall within seven days thereafter make good in cash or in securities endorsed as aforesaid, any sum or sums by which the security Deposit has been so reduced.

In case of an Award of a Contract and if the Contractor fails to perform or does not comply with the Performance Evaluation Criteria, the Security Deposit will not be refunded / Bank Guarantee encashed.

The Bank Guarantee shall be kept valid until the due date for refund of Security Deposit.

Security Deposit has to be deposited within 7 days of LOI/WO. Else EMD will be forfeited and may also attract the provision of "Suspension of Business dealings with Suppliers/Contractors".

9. GOODS & SERVICE TAX (GST) REGISTRATION & COMPLIANCE

1. Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
2. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
3. A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL.
4. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL.

For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills.

10. Orders under the Contract:

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

All orders, notices etc. to be given under the contract shall be in writing, typescript or printed and if sent by registered post to the address given in the tender of the Contract, shall be deemed to have been served on the date, when in the ordinary course they would have been delivered to him. The Contractor shall carry out without delay all orders given to him.

11. Contractor's Supervision:

1. The Contractor shall either himself supervise the execution of the contract or shall appoint a competent agent acceptable to BHEL Officials.
2. Orders given to the Contractor's agent shall be considered to have the same force as if they have been given to the Contractor himself.
3. The Contractor or his accredited agent shall attend when required without making any claim for doing so to the OFFICER-INCHARGE, to receive instructions.
4. The respective area HOD shall have full powers and without assigning any reason, requires the Contractor to immediately cease to employ in connection with this contract, any agent, servant or employee where continued employment is, in his opinion undesirable. The Contractor shall not be allowed any compensation on this account.

12 Payment to employees engaged by the contractor:

1. The Contractor shall remain liable for the payment of all wages and other payments in connection with the employees engaged by him and with regard to the work.
 2. The Contractor shall comply with the applicable provisions of Payment of Wages Act-1936, Minimum Wages Act-1948, Employees' Liability Act-1938, Employees' Compensation Act-1923, Payment of Bonus, EPF and Miscellaneous Provisions Act-1952, Employees' State Insurance Act-1948 and other relevant Acts and rules framed, thereunder from time to time.
 3. Contractor shall be responsible for making payment of wages within 7 days from the last day of wage period and shall obtain the signature at the end of entries in the wage register from area in-charge of contract operating department.
 5. Contractor should ensure that at least the prevailing minimum wages, as per the rules of Government of Tamil Nadu, which are applicable are paid to his employees ONLY in their respective nationalized bank accounts by means of NEFT/ RTGS/ IMPS.
 - 6 The contractor should remit the salary/wages of their workmen only through nationalized Bank, directly to the salary/savings account of the employee concerned. monthly clearance will be given in respect of those contractors, only if the salary/wages to the workmen concerned has been remitted in the nationalized bank account of the workmen. The relevant Bank statement/proof for Bank payment should be produced along with PF and ESI challans every month.
 - 7 No other mode of payment (hand payment / account transfer other than salary or any other) is acceptable as salary.
 - 8 The contractor should pay the previous month salary in full to our employees before 7th of every month and will not adjust with any advance/ loan /training cost / accommodation cost / repayment due by the employee to us.

If the Contractor employs more than twenty employees, he has to obtain License to this effect from the Factory Inspectorate and renew the same periodically.
 - 9 The Contractor should follow and comply with Minimum Wages, ESI, PF, Bonus, Group Insurance and other statutory regulations as stipulated in Factories Act and other applicable State / Central Governments' rules & regulations.
- 12 Each contract employees must have his own PF and ESI Codes and comply with the relevant Acts.

13. Precautions against Risk:

The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

14. Damage & Loss to Private Property & Injury to workmen:

The Contractor shall at his own expense reinstate and make good to the satisfaction of the respective area **HOD** and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the contract and further the contractor shall indemnify BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Employees Compensation Act or otherwise.

15. Laws Governing the Contract:

The contract shall be governed by the Indian Laws for the time being in force.

16. Cancellation of Contract for Corrupt Acts:

BHEL, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued, shall accrue thereafter to BHEL cancel the contract in any of the following cases and the Contractor shall be liable to make payment to BHEL for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default.

If the Contractor shall:

- a) Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for having borne to do any act, in relation to the obtaining or execution of this or any other contract for BHEL service,
OR
- b) enter into a contract or understanding with any person in BHEL in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to BHEL,
OR
- c) To obtain' a contract with BHEL as a result of ring tendering or by non-bonafide methods of competitive tendering, without first disclosing the fact in writing to BHEL.

17. Cancellation of Contract for Insolvency Assignment of Transfer or Subletting of Contract:

BHEL, without prejudice to any other right or remedy, which shall have accrued or shall accrue thereafter to BHEL, shall cancel the contract in any of the following cases:

If the Contractor,

- a) Being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors.
OR
- b) Being a Company, shall pass a resolution or Court shall make an order for the liquidation of its assets, or a receiver or Manager on behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager.
OR
- c) Assigns, Transfers, Sublets or attempts to assign, transfer or sublet any portion of the work.

- d) Whenever BHEL exercises the authority to cancel the contract under these conditions, BHEL may have the work done by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by the respective area **HOD**) being less than the contract cost, the advantage shall accrue to BHEL and if the cost exceeds the money due to Contractor under the contract, the Contractor shall either pay the excess amount ordered by the respective area **HOD** or the same shall be recovered from the Contractor by other means.
- e) In case BHEL carries out the work under the provisions of this condition, the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and / or labour provided by BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the respective area **HOD** whose decision shall be final and conclusive.
- f) Labour engaged by the contractor should be disciplined & exhibit good behaviour in dealing with employees of BHEL. Any misbehaviour or undesirable conduct of any person engaged by the contractor is reported, contractor shall change that person immediately or else it may even lead to termination of the contract & in such case security deposit will be forfeited as penalty.

18. Cancellation of Contract in Part or Full for Contractor's Default:

If the contractor:

- a) makes default in carrying out the work as directed and continues in that state after a reasonable notice from the respective area **HOD** or his authorized representative:
 - b) fails to comply with any of the terms & conditions of the contract or failure to comply orders after reasonable notice in writing with orders properly issued thereunder:
- BHEL, May without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to BHEL CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever BHEL exercises the authority to cancel the contract as a whole or part under this condition, BHEL may complete the work at the contractor's risk and cost (as certified by the respective area

HOD which is final and conclusive) being less than the contract cost, the advantage shall accrue to BHEL. If the cost exceeds the money due to the Contractor under this contract, the Contractor shall either pay the excess amount ordered by the respective area **HOD** or the same shall be recovered from the Contractor by other means. In case BHEL carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by BHEL with an addition of such percentage to cover the superintendence and establishment charges as may be decided by the respective area **HOD** whose decision shall be final and conclusive.

19. Termination of Contract on Death of Contractor:

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, BHEL shall have the option of terminating the contract without compensation to the Contractor.

20. Special Power to Termination:

If at any time after the award of contract, BHEL shall for any reason whatsoever not require whole or any part of the work to be carried out the respective area **HOD** shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

21. Recovery from Contractor:

Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractor, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with BHEL or from his Security Deposit unless the contractor pays the claim on demand.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

22 Post- Technical Audit of Work and Bills:

BHEL reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub- paragraphs. However, no such recovery shall be enforced after three years of passing the final bill.

23. Refund of Security Deposit:

The Security Deposit may be refunded to the Contractor after completion of the contract provided, after the Contractor shall first have been paid the last and final bill and have rendered a "NO DEMAND CERTIFICATE".

24. Force Majeure Clause:

If, at any time during the continuance 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, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earthquake etc.) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence thereof neither of the parties shall by reason of such event be entitled to terminate this Contract or claim for damages against the other in respect of such non-performance or delay for such period. Performance under the contract shall be resumed as soon as practicable after such event 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 of any such event, claims for extension of time may be granted for periods considered reasonable by the respective area **HOD** at his discretion subject to prompt notification by the contractor.

25. Arbitration:

Except as provided elsewhere in this Contract, in case amicable settlement 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 the other Party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Head of the BHEL Tiruchirappalli.

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 there under and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Tiruchirappalli (the place from which the contract is issued)

The cost of arbitration shall be borne as per the award of the Arbitrator. Subject to the arbitration in terms of Clause above, the Courts at **Tiruchirappalli** (PI incorporate the name of the place where the Principal Civil Court having ordinary original civil jurisdiction to decide questions forming subject matter of the arbitration is located) shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract.

Notwithstanding the existence or any dispute or differences 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.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

In case of contract with Public Sector Enterprises (PSE) or a Government Department, the following shall be applicable

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either Party for arbitration to the sole arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the Parties to the dispute, provided, however, any Party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the Parties hereto finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

26. JURISDICTION:

In case of any suit or other legal proceedings arising under or relating to this Contract, the courts at Trichy, Tamil Nadu only shall have the Jurisdiction and is only after exhausting the, Arbitration, Clause 25.

27 SECRACY OF CONFIDENTIAL INFORMATION:

The Contractor undertakes and agrees that he/it will not disclose or reveal in part or full the proprietary/confidential information, which terms shall mean and include patents, trademarks, service marks, registered designs, copyright, design rights, know-how, confidential information, trade and business names and any other similar protected information of BHEL received during negotiation or currency of the contract to any third party or governmental authorities without written permission from BHEL. In the event of termination or expiry of the contract, the contractor shall return all proprietary/confidential information to BHEL. This clause shall survive termination or expiry of the contract.

BHEL reserves the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc., if the contractor is found guilty / wrong usage of the documents given by BHEL for any unauthorised activity.

28. Signing of Contract:

Each contract document shall be signed by the Contractor with his usual signature. Contract by partnership or Hindu Joint Family firm, may be signed in the FIRM'S name by the Managing Partner or all /one of the Partners on behalf of the firm or the Karta or Manager for HUF as the case may be. Contract by a Company shall be signed with the name of the Company from a person authorised in this behalf and a Resolution or power of attorney or other satisfactory proof, showing that the person signing the Contract documents on behalf of the Company is duly authorised to do so, shall accompany the contract.

29 FRAUD PREVENTION POLICY

The Bidder along with its associate / collaborators / 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 fraud or suspected fraud as soon as it comes to their notice”.

Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units / Regions intranet.

30. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS / CONTRACTORS:

Penal action can be initiated on the suppliers / Contractors in line with extant ‘Guidelines for Suspension of Business Dealings with Suppliers/ Contractors. The abridged version of extant ‘Guidelines for suspension of business dealings with suppliers/ contractors’ has been uploaded on <http://www.bhel.com> on “supplier registration page”.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

31. RISK PURCHASE:

a) In the event of any successful Tenderer's failure to fulfil any of the tender / Contract obligations as per Contract / Agreement, BHEL may entrust the job to alternate vendor and get it completed to meet the BHEL requirement and additional expenditure, if any, including consequential cost viz., demurrage etc., will be fully recovered from the Contractor who failed to complete the job in line with the Contract.

b) The decision of BHEL with regard to the actual losses / consequential expenditure incurred by BHEL shall be final and binding on the Contractor.

In case vendor fails to fulfil any of the tender / Contract obligations as per Contract / Agreement, contract shall be cancelled and SD shall be forfeited

33. Notices of Accidents

In the event of an accident the Contractor shall be required to fill injury report and submit to the Engineer In charge immediately and ensure compliance of ESI / Workmen's Compensation of accident as per the Act. The Contractor shall get the Contract personnel engaged by him insured under workmen's compensation policy from any Insurance company in India before actually starting the work. The Insurance Coverage should be for the entire period of Contract. The Contractor shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in connection with the provisions of ESI Act.)

34. Preference to Make in India:

"For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if it is issued after this NIT but before finalization of contract / PO / WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

SPECIAL TERMS & CONDITIONS OF CONTRACT

1. PARTICIPATION.

- The Parties who have been suspended or black listed or issued with "Show Cause Notice "by BHEL Trichy-14 or any other BHEL Unit will not be allowed to participate in the Tender.
- Other than the bidder None of its group concerns or affiliates etc. are participating in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s).

The bidder should declare the same in the Tender. Even during the course of evaluation / finalization of Tender if it is found that some of the parties are not fulfilling the above clauses, BHEL will not consider them for further participation in the Tender.

2. EVALUATION CRITERIA:

- a. Technical Bids of tenderers will be evaluated based on the Pre-Qualification/Technical Eligibility Criteria on the basis of supporting documents and track record of the bidder.
- b. Price Bids of only those tenderers who are found to meet the Pre-Qualification/Technical Eligibility Criteria will be opened. Price Bids will be opened with prior information to the eligible bidders to facilitate the presence of the bidders or their authorized representatives to witness the Price Bid opening.

3. CRITERIA FOR AWARD OF WORK:

1. The evaluation of offer for award of work shall be on the basis of "Total Cost to BHEL/ **Net Cash outflow to BHEL after taking into account applicable Taxes and Duties.**
2. **The work will be awarded on Package Wise L1 basis.**
3. In case of more than one L1 bidders for respective schedules, BHEL will invite fresh revised reduced price bids from all such L1 bidders & ranking will be decided based on these revised bids. The new rates quoted should be lower than their previous L1 rates. In case if the revised bids submitted by L1 bidders is also same and none of the bidders are ready for further reduction in their rates, then L1 bidder will be selected on draw of lots. **In such cases Non-MSE Bidders will not be considered for draw of lots.**
4. The quantity mentioned in BOQ / Price bid is tentative. BHEL reserves the right to increase or decrease the quantity during award of work or issue work order in phase manner as per requirement of BHEL.

4. METHOD OF EVALUATION OF PRICES

Priority / Ranking

1. Net cash outflow to BHEL including all charges, incidentals etc., inclusive of Goods & Service tax.

5. RATE FINALIZATION

1. Lowest prices received against BHEL Tenders need not be the acceptable to BHEL and in that case BHEL would not be considered the same for award of Contract. BHEL would negotiate or re-float the Tender opened if L1 price is not the lowest acceptable price to them inter-alia other reasons.
2. BHEL will finalize the rates through price bid opening. Hence Tenderers are requested to give their best prices at the first instant itself.
3. In the event of the final L1 prices are not reasonable / acceptable to BHEL, BHEL also may resort to short closure of this open Tender.

6. SPLITTING OF CONTRACT:

The contract shall be awarded to single vendor

7. DISCREPANCY IN WORDS & FIGURES- QUOTED IN PRICE BID:

- I. If, in the price structure quoted for the required goods / services / works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- II. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- III. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (I) and (II) above.
- IV. If there is such discrepancy in an offer, the same will be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
- V. Bid should be free from correction, overwriting, using corrective fluid, etc. any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature (s) of person(s) signing the bid shall be liable for rejection. All overwriting/ cutting, etc. will be numbered by bid opening officials and announced during bid opening.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

PART-I (Declaration)

ANNEXURE-A

Note: The following Declaration to be typed on the contractor's Letter Head, duly signed & stamped and to be attached along with your Technical bid of the tender.

Name of Works: SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20

Enquiry No: BHEL-TRY/ WCM/9471900066/ 08.06.2019

DECLARATION

We M/s. do hereby confirm the following points with ref to the above works, if ordered on us.

1. We do hereby confirm that we will pay (i) at least the minimum wages (minimum basic wages + minimum DA) to all the persons engaged (Un Skilled / Semi Skilled / Skilled /Supervisor category) by us in the above contract as per the Tamilnadu Government Minimum Wages Act - 1948 & also as per any revisions made by the State Govt. from time to time and (ii) Additional Wages as per HR / BHEL circular ref: BHE: HR: W: EW dt 08.04.2014 and (iii) Bonus as per the Bonus Act-1965 along with Wage.
2. ESI, PF & Bonus (both Employer and Employee contributions) amounts are to be remitted for total wages to be paid as mentioned in (i) & (ii) of point 1 and challans to be produced along with invoices for all the respective persons engaged in the above contract.
3. The Service charge % quoted in this tender will remain firm throughout the entire Contract period and no extra payment against service charges will be claimed from BHEL under any circumstances from our end.
4. We, the contractor, will disburse the salary/wages to all the persons engaged in the contract ONLY through nationalized banking channel in their respective accounts & the relevant Bank statement / proof for Bank payment will also be produced along with PF and ESI challans to the Welfare Section every month for processing our invoices for payment.
5. We will pay the previous month salary in full to our employees before 7th of every month and will not adjust with any advance/ loan /training cost / accommodation cost / repayment due by the employee to us.
6. All the payments to the persons engaged in the contract will be paid only through nationalized bank. No other mode of payment (hand payment / account transfer as advance payment or any other) is acceptable as salary.
7. In case we fail to pay the minimum wages to all the persons engaged in the contract which includes Minimum wages and Additional wages with ESI and PF (both Employee and Employer contributions) for every month including Bonus, BHEL has the right to recover from the outstanding payments to us either under this Contract or in any other Contract(s) or from Security Deposit or from both. In case this amount is insufficient for such recoveries, we shall make good the balance amount by actual payment. In addition, BHEL, Trichy may recover the said amounts through other running contracts from BHEL's sister units.
8. We also confirm to all the Terms & Conditions as per your above referred Enquiry & as per our offer submitted against the same.
9. We also declare that, we have not been suspended or black listed or issued with Show Cause Notice by BHEL Trichy-14 or any other BHEL Unit or any PSU/ Government organization
10. confirm that none of its group concern or affiliates etc., appears on the list of banned firms / companies by BHEL (list available on www.bhel.com) nor any of the Director / Partner / proprietor of bidder / such group concern or affiliate etc. are involved with such company.
11. Confirm that other than the bidder, none of its group concerns or affiliates etc. are participating in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s).
12. We will obtain and submit Labour License (As applicable), PF and ESI Registration within 30 days from award of work.

(Contractor Signature with Seal)

PART-I (No Deviation certificate)

ANNEXURE-B

Note: The following Declaration to be typed on the contractor's Letter Head, duly signed & stamped and to be attached along with your Technical bid of the tender.

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**
Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

I/ We have read and clearly understood all the Terms and conditions in Tender Schedule of "SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20." Enquiry No.: BHEL-TRY/ WCM/9471900066/ 08.06.2019 and accordingly we accept the same without any deviation what so ever.

- I/ We unconditionally agree to all the tender conditions and no new conditions are imposed by us in the technical / price bid. I understand in the event of imposing any condition in the technical / price bid, such condition would be ignored by BHEL and only the prices will be considered for the purpose of evaluation"*
- I/ We confirm that none of our group concern or affiliates etc., appears on the list of banned firms / companies by BHEL (list available on www.bhel.com) nor any of the Director / Partner / proprietor of bidder / such group concern or affiliate etc. are involved with such company.*
- I/ We also declare that, we have not been suspended or black listed or issued with Show Cause Notice by BHEL- Trichy or any other BHEL Unit or any PSU/ Government organization.*
- I/ We confirm that none of our group concern or affiliates etc., appears on the list of banned firms / companies by BHEL (list available on www.bhel.com) nor any of the Director / Partner / proprietor of such group concern or affiliate etc. are involved with such company.*
- I/ We confirm that other than us, none of our group concerns or affiliates etc. are participating in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s).*
- I/ We confirm that if any of the above statement / information furnished by us in this tender is found to be false/ fake at any stage of tender evaluation or during execution of contract, BHEL will have the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc. as deemed fit.*

(Contractor Signature with Seal)

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**
Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

ANNEXURE-C

PROFORMA (SAMPLE)

(ON BIDDER'S LETTER HEAD)

REF:.....

DT:.....

AUTHORIZATION LETTER FOR PARTICIPATING IN TENDER OPENING

We, M/s..... (name of the Tenderer) hereby
authorizing (name of the representative) to participate in
the Tender opening of **"SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION
AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20."**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

The representative's specimen signature is appended below & attested.

(Signature of the representative)

Authorized signature
with seal and address

Annexure-D

To THE PURCHASE/CONTRACT EXECUTING AGENCY/BHEL ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

1	NAME & ADDRESS OF THE SUPPLIER / SUB-CONTRACTOR	
2	VENDOR CODE assigned by BHEL	
	<u>Details of Bank Account:</u>	
3	NAME & ADDRESS OF THE BANK	
4	NAME OF THE BRANCH	
5	BRANCH CODE	
6	MICR CODE	
7	ACCOUNT NUMBER	
8	TYPE OF ACCOUNT	CURRENT A/C / OD / CASH CREDIT
9	BENEFICIERY'S NAME	
10	IFSC CODE OF THE BRANCH	
11	EMAIL ID	
12	TELEPHONE/MOBILE NO.	

CERTIFICATE I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED by the National Electronic Funds Transfer and/or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited. I / We also agree to bear the applicable Bank Charges for the above mode of transfer. A copy of the cheque leaf/cancelled cheque leaf of the above account is sent herewith.

AUTHORISED SIGNATORY WITH NAME SEAL

Banker's Certification

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of _____ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

PLACE:

(Manager / Officer's)

DATE:

Signature Under Bank stamp and Name Seal

With Membership No.

(Telephone / Mobile No. _____)

Forwarded to Accounts Dept. We confirm the above details are verified with the records available with us.

Signature of the BHEL Executive with Name Seal (Operating the Contract/Services)

Annexure – E

Certificate by Chartered Accountant on letter head for MSE bidder

This is to Certify that M/S (hereinafter referred to as 'company') having its registered office at is registered under **MSMED Act 2006**, Udyog Aadhaar Memorandum(UAM) **No:** dtd:, Category:(Micro/Small/Medium). (Copy enclosed).

Further Verified from the Books of Accounts that the investment of the company as per the latest audited financial year As per MSMED Act 2006 is as follows:

1. For Manufacturing Enterprises: Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No. S.O.1722€ dated October 5, 2006 :
Rs.Lacs.
2. For Service Enterprises: Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under MSMED Act, 2006 :
Rs.Lac.

(Strike off whichever is not applicable)

The above investment of Rs.Lacs is within permissible limit of Rs.Lacs for Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322€ dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name –

Membership Number –

Seal of Chartered Accountant.

ANNEXURE-F

EMD PAYMENT WIDE E-COLLECT

This explains how to make Payments to BHEL- Tiruchirapali and through SBI-Ecollect. Vendors (EMD and SD Payments payable by others) can utilise this facility. Payments can be made using Internet Banking, Debit Cards/Credit Cards etc. SBI Charges a minimum amount (Service Charge) for every transaction. This may vary according to the MODE selected.

STEP BY STEP PROCEDURE:

Login to <https://www.onlinesbi.com>

1. Select State Bank Collect available on the top (pre login page)
2. Accept the terms and conditions and click "PROCEED"
3. Select State "TAMILNADU "and Institution type "INDUSTRY ".
4. Select "BHEL TRICHY under "INDUSTRY".
5. In the next page, Select APPROPRIATE category, fill details correctly & click "SUBMIT".
6. If all details entered are correctly populated, click "CONFIRM "to proceed.
7. Make payment as per your convenience. (Options available are payment of fees through SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches).
8. SAVE & Keep the copy of receipt for future reference.

HOW TO TAKE RECEIPT FOR A PAYMENT MADE, EVEN ON A LATER DATE: (PLEASE CHECK THE STATUS BEFORE MAKING PAYMENT SECOND TIME)

1. Login to www.onlinesbi.com
2. Select State Bank Collect available on the top (pre login page)
3. Accept the terms and conditions and click "PROCEED"
4. Select "PAYMENT HISTORY "option available on the left side of screen.
5. Using two options as mentioned below , you can get the receipt :
 - a. Type the same Date of Birth, Mobile Number which you have entered at the time of making payment through SB collect. Select the date range and submit.
 - b. If you know the payment reference number, then enter the Reference number (DU...) along with anyone information (Date of Birth / Mobile number, which you have entered at the time of making payment). Select the date range and submit.
6. In the next page, take print out of receipt.

Annexure-II

PART-II (PRICE BID)

Sl No	Description of work	UOM	Appr ox. Qty (A)	Rate in ₹ (₹/ UOM) (B)	Total value in ₹ (C =A X B)
1	Pickling of Titanium wire PR: CHEM: 07- 26 Rev:00 DT: 07.06.2007) – Annex. -I	Meter	900	₹...../- Rupees.....only	₹...../- Rupees.....only
2	Degreasing of Titanium components and Sub assembly. PR:CHEM:07-30/01 DT 24-09-2009	Square meter	180	₹...../- Rupees.....only	₹...../- Rupees.....only
3	Pickling and Passivation of SS component. PR:CHEM:07-19/01 Dt 21-04-1999	Square meter	30	₹...../- Rupees.....only	₹...../- Rupees.....only
4	ID /OD cleaning of SS tubes. PR:CHEM:07-25/00 dt 16-05-2007	Meter	1500	₹...../- Rupees.....only	₹...../- Rupees.....only
5	Degreasing and Pickling of Titanium consumable. PR:CHEM:07-26 dated 07/06/2007	Kg	60	₹...../- Rupees.....only	₹...../- Rupees.....only

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

6	Pickling and Passivation of SS component. PR:CHEM:07-19/01 Dt 21-04-1999	Square meter	100	₹...../- Rupees.....only	₹...../- Rupees.....only
7	Pickling of Titanium Tubes. PR:CHEM:07-25/01 Dt 16-05-2007	Number	3000	₹...../- Rupees.....only	₹...../- Rupees.....only
8	Degreasing and Pickling of Titanium plates/Sheets. PR:CHEM:07-25/00 Dt 16-05-2007	Square meter	150	₹...../- Rupees.....only	₹...../- Rupees.....only
9	Buffing and painting of housing assembly (CS body assembly). PR:CHEM: 07-14/02 dt 07-06-2007	Square meter	60	₹...../- Rupees.....only	₹...../- Rupees.....only
10	Pickling of Titanium Wire. PR:CHEM:07-26/00 Dt 07-06-2007	Meter	1800	₹...../- Rupees.....only	₹...../- Rupees.....only

Name of Works: **SERVICE CONTRACT FOR CLEANING, DEGREASING, PICKLING, PASSIVATION AND PAINTING OF COMPONENTS / CONSUMABLES AT BHEL-TRICHY DURING 2019-20.**

Enquiry No.: **BHEL-TRY/ WCM/9471900066/ 08.06.2019**

11	Degreasing of Titanium components and Sub assembly. PR:CHEM:07-30/01 DT 24-09-2009	Square meter	450	₹...../- Rupees.....only	₹...../- Rupees.....only
12	ID /OD cleaning of Titanium tubes. PR:CHEM:07-30/01 dt 24-09-2009	Number	2000	₹...../- Rupees.....only	₹...../- Rupees.....only
13	Pickling and Passivation of SS component. PR:CHEM:07-19/01 Dt 21-04-1999	Square meter	200	₹...../- Rupees.....only	₹...../- Rupees.....only
14	Pickling and Passivation of Copper Gasket. PR:B2/B3:CU/00 Dt 23/02/2017	Number	3	₹...../- Rupees.....only	₹...../- Rupees.....only
15	Painting of CS body assembly. PR:CHEM: 07-14/02 dt 07-06-2007	Square meter	20	₹...../- Rupees.....only	₹...../- Rupees.....only
16	Painting of CS body assembly. PR:CHEM: 07-14/02 dt 07-06-2007	Square meter	40	₹...../- Rupees.....only	₹...../- Rupees.....only
Total offer Value (`)					
GST @ % (`)					
Total offer value including GST % (`)					

- No pre conditions other than tender terms & conditions will be entertained by BHEL.**
- The signature at the bottom of the price bid confirms that the tenderer has read and accepted all the terms and conditions of tender and rates quoted are inclusive of all taxes and duties levied excluding GST. has been considered by the tenderer for the total contract period while quoting the above rates.