



BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
ghujkpFkpd; epWtdk;
BOILER AUXILIARIES PLANT,
Indira Gandhi Industrial Complex,
RANIPET- 632 406 (Tamil Nadu)

Ph: 04172- 284030, 284158,241170
Email: vdinakar@bhel.in
ssvasan@bhel.in

Tender NO: 667115E

Dt.10.01.2018

Annexure-A

CHECK-LIST FOR COVER -I (MSME/EMD)			
S.No	Description - Details to be Filled by the Vendor		
1	<u>Name of the Vendor with Office Address</u>		
2	<u>Address for Communication</u>		
3	<u>Contacts with Designation</u>		
	1.Name:	Mobile Number:	
	2.Name:	Mobile Number:	
	E-Mail ID :		
4	Declare the Value of Immovable property of the Proprietor/Partners/Board of Directors in Lakh		
5	Distance of the vendor works from BHEL Ranipet in Kilometers		
6	Vendor Registration Status with BHEL Ranipet (Mark ✓)	New Firm	Already Registered
7	Indicate Vendor Code -If your Firm is already registered in Outsourcing Department, BHEL, Ranipet or Indicate Reference Code as NEW -If your Firm is New and not registered in Outsourcing Department, BHEL, Ranipet		
8	Whether your firm falls under NSIC / MSME	YES / NO	
9	If yes, enclose the relevant documents as proof	YES / NO	
10	PAN Number		
11	EMD Details (To be submitted by Non MSE Vendor) :		

Signature of Authorized person with seal



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Tender NO: 667115E

Dt.10.01.18

Annexure-B

CHECK-LIST FOR COVER -II (Techno Commercial Bid)

S.No	Description - Details to be Filled by the Vendor	
1	Name of the Vendor with Office Address	
2	Vendor Code / Vendor Reference Code	
3	Offer Reference	
4	Firms Capacity to be spared to BHEL Jobs for Fabrication/Machining - In terms of Metric Ton per Month	
5	Signed in Technical Bid (Annexure-C) for Each Group quoted in this tender (without Price)	YES / NO
6	Signed in Standard Commercial Terms & Conditions format given as Annexure-E	YES / NO
7	Integrity Pact as per Annexure-H	YES / NO
8	Affidavit in Stamp Paper value Rs.100 as per Annexure-I	YES / NO
9	Own land - Document copy with EC for 20 years / Lease Land - Self attested Copy of Lease Agreement for 3 Year period.	YES / NO
10	Documents to be enclosed for Partnership Firm – Self Attested Copies	
	i) Latest Form- A, issued after 01.04.2016.	YES / NO
	ii) Partnership Deed Copy (AT WILL).	YES / NO
11	Documents to be enclosed for Limited Firm (Private Firm) – Self Attested Copies	
	i) Latest resolution by Board of Directors.	YES / NO
	ii) Memorandum of Article of Association.	YES / NO
	iii) Company's Affidavit for existence	YES / NO
	iv) Latest Annual Report.	YES / NO
	v) Directors Share details	YES / NO
12	Power of Attorney if required as per Annexure-J	YES / NO
13	Vendor Registration Form given as Annexure-K along with all necessary documents (For New Firm)	YES / NO
	We have gone through all the terms and conditions of the tender and fully understood all the technical and commercial requirements and quoted for the tender without taking any deviation.	
	Signature of Authorized person with seal	



Bharat Heavy Electrical Limited
Outsourcing Department
Ranipet - 632406

ANNEXURE - E

Tender No. 667115E

Dt.10.01.2018

Vendor Name with Code:

S No.	BHEL Standard Commercial Conditions
01	Terms of Delivery: FOR Destination FOR - Destination means FOR - BHEL Stores, Ranipet [Packing & Forwarding, Freight Charges & Transit insurance are in Supplier's scope i.e. included in the quoted prices.
02	Delivery Period: 45 Days from PO date.
03	Liquidated Damages: BHEL will levy penalty as Liquidated Damages (LD), for delay in delivery. The damages shall be at the rate of ½% per week or part thereof subject to a maximum of 10%. Delivery for purpose of L.D, will be reckoned as the date of clearance of the items for dispatch by BHEL. Supplier should quote a definite delivery period and any delay in delivery will attract penalty.
04	Terms of payment: Payment will be made within 45 days for MSME vendors and within 90 days for Non MSME vendors after receipt of valid invoices supported by full set of necessary documents at Finance in accordance with CL. 16.
05	Bank Guarantee: Performance Bank Guarantee(BG) / Fixed Deposit Receipt(FDR) for the value of 2.5% of the Order Value from Consortium Banks as per Annexure- S to be submitted
06	Risk Purchase: Alternatively, the BHEL at his option will be entitled the contract and to manufacture elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss which the BHEL may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in LD clause.
07	Price Validity: Till the completion of Contract , however the validity date of the offer is 180 days from the date of tender opening for ordering.
08	GST: "Please indicate the exact percentage of CGST/SGST/UTGST/IGST (whichever is applicable) is quoted as per the existing tariff on the date of the offer and all benefits as per existing laws have been considered. It is the responsibility of the seller to issue the Tax Invoice strictly as per the format prescribed under the relevant applicable GST law (CGST Act/SGST Act/UTGST Act/IGST Act). Vendor to indicate the proper GSTN Registration/ HSN code in their tax invoice." "Please indicate the exact percentage of CGST/SGST/UTGST/IGST (whichever is applicable) is quoted as per the existing tariff on the date of the offer and all benefits as per existing laws have been considered. It is the responsibility of the seller to issue the Tax Invoice strictly as per the format prescribed under the relevant applicable GST law (CGST Act/SGST Act/UTGST Act/IGST Act). Vendor to indicate the proper GSTN Registration/ HSN code in their tax invoice."

We agree for all the above commercial conditions without any deviation and also certify that there is no deviation in any of the Terms and conditions of this tender.

Vendor Signature with Firm's Seal

**BHARAT HEAVY ELECTRICALS LIMITED**

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Tender NO: 667115E

Annexure-F**Manufacturing Facilities Available with Firm****Vendor code**

S.NO	DETAILS / REQUIREMENTS	VENDOR CONFORMANCE /RESPONSE
General Information about Firm		
1	Name & Address of Firm	
2	Bank Account Number and Name of the Bank	
3	Proprietor/Partnership/Limited company	
4	Name of Proprietor/Partners/Director with Age and Contact Number	
5	Educational & Technical qualifications of Proprietor/partners	
6	Educational & Technical qualifications of Supervisors	
7	Number of in house Quality Inspectors, Manpower details with Educational Details	
8	Availability of qualified NDT personnel	
9	Availability of computer with Internet access	
10	ISO 9001 certification :	
11	GST registration Details	
Mandatory General facilities		
12	Electrical power availability (EB) in KW - Minimum 15 Kw	
13	EB Service Card copy	
14a	Land area, own/Lease (title deed with encumbrance certificate) to be furnished (If lease, lease should be minimum for a period of 3 years on the date of Tender opening)	

15	Encumbrance Certificate for 20 years for land to be attached	
16	Availability of approach road	
17	Covered Area (concrete/ Asbestos) in Sq.ft - Minimum 1000 Sq.Ft	
18	Compliance of Statutory requirements such as Insurance, ESI and PF facility for employees, Safety requirements, Non usage of Child labour, License from Government Agency(Inspectory of Factories)..etc	YES /NO
Facilities available with Firm		
19	Availability of alternate power source (Diesel /inverter) Indicate the capacity	
20	Concrete platform inside covered area in Sq.ft	
21	Hyd /mech press/ shearing machine (Indicate capacity in MT)	
22	Welding Gen / Rect /transformer 400 A(Make)/ CO2 weld equipment : No of sets	
23	Electrode Baking Oven upto 500 degree c (preferably 600 degree c) & Thermal Flask 200 degree C	
24	Pug Cutting machine with Accessories : No of sets	
25	Hand Gas cutting Set : No of sets	
26	Pedestal grinder : No of sets	
27	HD angle grinder (Heavy Duty) : No of sets	
28	Portable HD Drilling	
29	Portable Drilling Machine 32mm	
30	Pillar Drilling Machine 35mm	
31	Radial Drilling Machine with size	
32	Screw Fly press 10MT	
33	Jim Screw or press brake	
34	Plate Rolling machine capacity (width & thickness) in mm	
35	Movable A frame (on rail)with movable chain pulley Capacity	
36	Mobile crane 10 MT capacity either self owned or on hire basis	
37	Hydraulic Jack 5 MT	
38	Welding cable 100 Mtr . Set	
39	Drill bits upto 32mm , Tap set M6-M24	

40	Calibrated Measuring Instruments	
41	Availability of level bed (Flatness 1mm)	
42	Availability of straight edge (4 inch aluminium channel of 3 meter)	
43	Availability of bending machine width & thickness	
44	Availability of shearing machine : Max Thickness & Width in mm	
45	Availability of power saw	
46	Availability of Lathe with size - Maximum Dia to be held and Length of Bed	
47	Availability of Horizontal Boring Machine - Spindle size and Table size	
48	Availability of Vertical Turning Lathe (VTL) with size - Table size	
49	Availability of Milling Machine - Spindle size and Table size	
50	Availability of CNC Machines with Capacity	
51	Availability of VMC / Plano Milling - Table size	
52	Availability of Grinding Machines - Surface Grinding, Cylindrical Grinding etc..	
53	Special Machines	

I/We certify that the details furnished above is true and correct and also the required manufacturing facilities indicated in the Technical Bid -Annexure-C is available with us.

Signature of the Vendor with Firm Seal

Annexure G
Certification for MSME

Certificate by Chartered Accountant on letter head

This is to Certify that M/S
(hereinafter referred to as 'company') having its registered office at
is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-II) dtd:.....,
Category: (Micro/Small)). (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(E) 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 the MSMED Act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs forMicro / 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(E) 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

Tender NO: 667115E

dt.10.01.2018

INTEGRITY PACT (Annexure-H)**Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi – 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

And

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for **Tender NO: 667115E for fabrication of Door Cover in accordance with drawings/QWIs to be supplied by BHEL/RANIPET, out of vendor's raw materials and/or components. Vendor's scope is inclusive of delivery of finished goods to BHEL Stores**. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s). In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or

any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

- 3.1 If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidders(s)/ Contractor(s) from the tender process or take action as per the separate “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” framed by the Principal.

Section 4 – Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 – Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to demand from his sub-contractors a commitment consistent with this Integrity Pact. This commitment shall be taken only from those sub-contractors whose contract value is more than 20% of Bidder's/ Contractor's contract value

- with the Principal. The Bidder(s)/ Contractor(s) shall continue to remain responsible for any default by his Sub-contractor(s).
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 – Criminal Charges against violating Bidders/ Contractors /Subcontractors

- 7.1 If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 –Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.10 The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

- 9.1 This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.
- 9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 – Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this Agreement would be a preliminary qualification.

For & On behalf of the Principal
(Office Seal)

Place-----

Date-----

Witness: _____

(Name & Address) _____

For & On behalf of the Bidder/ Contractor
(Office Seal)

Witness: _____

(Name & Address) _____

ANNEXURE – I

AFFIDAVIT

I/We M/sdo hereby undertake the following

01. We have not been put on hold ,suspended, delisted, banned or black listed by any of the BHEL units
02. We have not been booked by CBI and/or indicted by a court of law in any criminal case relating to any manufacturing related activity during last 5 years .

03. Tick which ever is applicable

- i) ☐ One or more partners/directors/proprietor of us DO HAVE a relation or relations employed in the capacity of an officer of BHEL. The details are given below

Name:-

Staff.No:-

Designation:-

Department:-

(or)

- ii) ☐ One or more partners/directors/proprietor of us DO NOT HAVE a relation or relations employed in the capacity of an officer of BHEL. Concealing the above information , & if found by BHEL, BHEL may cancel the contract & forfeit EMD/Bank Guarantee forthwith .

04. All scope , Terms , conditions ,annexures ,technical/operational requirements of BHEL read understood, accepted with out any deviation and then submitted offer unconditionally .

05. In case it comes to notice of BHEL during the finalization of Tender/after placement of contract and while executing the contract that vendor has given incomplete ,false, incorrect, suppressed information & data, forged documents fake documents/ certificates ,fake certificated or any information prejudicial to BHEL's interest, BHEL will suspend the business with the vendor at any stage and the EMD/Bank Guarantee will be forfeited .

06. I/We undertake that the required Bank Guarantee will be submitted within 15 Days of finalization of the contract, else non submission of BG can be treated as "*not honoring his own offer or any of the condition* " stated/agreed in the tender and declared fit for taking penal action by BHEL as per "*suspension of Business dealings vide Clause R of section IV* " against me/us.

Signature of authorized person with Seal

I consider it necessary and expedient to appoint _____

-/ Page 2 /-

I hereby agree and undertake to ratify all acts, deeds, assurances done, given, executed or made by my said Attorney in connection with the above as if the same were done or made by me. _____ (the principal)

IN WITNESS whereof I sign and execute this Power of Attorney on this _____ day of _____ 2014 at _____.

(Signature and Seal of the Principal)
With Land-line, Mobile, email, Address

=====

The Stamp size photo and specimen signature of the Attorney

Affix Photo here

Specimen signature of the Attorney

=====

SIGNED and delivered by the above named _____
(Principal) in the presence of _____ (Name of Witness),

(address of witness).

(Signature and Seal of the Witness)

=====

Signature & Seal of the Notary

=====

[Note:

1. In case of a company, the Managing Director of the Company shall sign on behalf of the Principal. The company's common seal shall also be affixed in the power of attorney
2. In case of Hindu Undivided Family, karta shall sign on behalf of the HUF.
3. In case of a partnership, all the partners of the Firm shall sign and affix seal on behalf of the Principal.
4. In case of a proprietorship, the proprietor shall be the Principal.]

	Annexure-II GUIDELINES TO INDIAN SUPPLIERS FOR FILLING-UP SUPPLIER REGISTRATION FORM	Document No.	AA:MM:SR:01
		Revision No.	01
		Page No.	I of II

- Prospective Suppliers may also visit our web site www.bhel.com (link Supplier Registration -> New Supplier Required) to know more about the requirement of new suppliers for various items in our units.
- Registration Form may be obtained from BHEL website www.bhel.com.
- Application for registration, with a covering letter detailing where your products can find application (if possible) in BHEL unit(s), should be sent to:

Supplier Development Cell
Unit Name:
Bharat Heavy Electricals Ltd.
City:
India

- In case registration is being sought in multiple units of BHEL, please send the separate application to each unit.
- Any clarification with respect to procedure for registration may be obtained from the Supplier Development Cell of respective BHEL unit.
- The Supplier Registration Form has four parts:

Part A	Organisational Information	Form no. SRF(I)01 – page 1 to 10
Part B	Quality System	Form no. SRF(I)01 - page 11 to 12
Part C	Technical Competence	Form no. SRF(I)01 page 13 (if sent by BHEL)
Part D	Score Sheet (to be filled by BHEL)	Form no. SRF(I)01 page 14 to 17

The set of formats to be filled by different category of suppliers is as follows:

Sl.No	Supplier Category	Formats
1.	Indian Suppliers (manufacturers)	- Organisational Information - Quality System - Technical Competence
2.	Indian Stockist/ Trader/ Distributor/ Dealer/ Authorised Agent/ Channel partner/ Indian Sales office or Subsidiary of registered foreign principal	- Organisational Information SRF(I)01- Part A (page 1 to 10 except Sl. No. 5.1, 5.2, 6.6, 6.7, 7 & 8)

- All columns are to be filled up properly in the space provided for. Wherever it is not applicable, please mention “Not Applicable”. The form is to be signed by the authorised signatory.
- A separate sheet may be attached if the space provided is insufficient or additional information is to be given. Please put proper identification tag on the separately attached sheet.
- Please ensure that all required enclosures are attached with the filled up Supplier Registration Form and all enclosures are numbered & list of enclosures is given as required.
- As multiple copies of the application forms are required for processing at our end, please do not spiral bound the application forms or its enclosures and instead send them in two hole clip flat file.
- Incomplete forms will be rejected.
- Any information / clarification required by BHEL during evaluation must be given expeditiously.
- Please note that if you are registered and participate in Tender process and qualify to get order from BHEL, your performance based on Quality of your product, delivery performance and service rendered will be evaluated inline with Chapter VI.
- Please fill up the check- list given on next page and send along with the Supplier Registration Forms to BHEL.
- If you are attaching a document in a language other than Hindi/ English, a self attested Hindi/ English translated document may please be also attached.

	Annexure-II Check List for Indian Supplier Registration Form	Document No.	AA:MM:SR:01
		Revision No.	01
		Page No.	II of II

Sl.No.	Check-Point	Yes/No
1.	Information against all points under “Organizational Information” (Part-A) has been given.	
2.	All enclosures and supporting documents have been enclosed.	
3.	Summary list of enclosures has been furnished as per S.N.10 of Organisational Information form no. SRF (I) 01 & S.N 12 of Quality system form no. SRF (I) 01.	
4.	Are you an ISO 9001 accredited supplier?	
5.	If yes, have you enclosed "Table of Contents” of your Quality Manual and copy of ISO 9001 accreditation certificate?	
6.	Have you filled up Quality System format given in Part B?	
7.	Technical requirements, specifications, drawings, standards have been received from BHEL before filling up Technical Competence, Part C.	
8.	All the parts of the form & enclosures have been signed by Authorised Signatory.	
9.	Have you attached EFT details? (In original, Certified by the bank)	
10.	If you are seeking registration for a MSME company (as per MSME Act of Government of India), have you attached requisite certificate as per Act?	

Date :

Signature & seal

(Authorised Signatory)

Note: This check list is to be attached with the filled up Supplier Registration Form.

**BHARAT HEAVY ELECTRICALS LIMITED
SUPPLIER REGISTRATION FORM**

FORM NO. SRF(I) 01 (INDIAN SUPPLIER)

ANNEXURE-II

Page 1 of 17

INFORMATION WITH * MARKS IS SCOREABLE.

PART- A : ORGANISATIONAL SOUNDNESS

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR, WHEREVER IT IS NOT APPLICABLE, PLEASE WRITE "NOT APPLICABLE". INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED. **PLEASE ATTACH SEPARATE SHEET, IF SPACE AVAILABLE IS INADEQUATE.**

ALL THE PAGES OF THE FORM ARE TO BE SIGNED ALONGWITH SEAL BY THE AUTHORISED SIGNATORY

ORGANISATIONAL INFORMATION			
NAME AND CORRESPONDENCE ADDRESS OF THE SUPPLIER SEEKING REGISTRATION :-			
1.0 PRODUCTS / SYSTEMS / SERVICES FOR WHICH REGISTRATION IS APPLIED FOR :			
SL. NO.	DESCRIPTION	SIZE & RANGE	MFG. STD/ IS / DIN /BS ETC.
SUPPLIER'S AUTHORISED SIGNATORY		BHEL CERTIFIED ASSESSOR	

**BHARAT HEAVY ELECTRICALS LIMITED
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ORGANISATIONAL INFORMATION

2.0 GENERAL INFORMATION :

2.1 NAMES OF THE WORKS/DIVISION (Products manufactured at each works to be mentioned :

ADDRESS :
E - Mail :
TELEPHONE : Landline
Mobile
FAX :

2.2 NAME OF CHIEF EXECUTIVE /
PROPRIETOR / PARTNER & ADDRESS :

2.3 DETAILS OF AUTHORISED SIGNATORY FOR SEEKING CLARIFICATION :

NAME :
DESIGNATION :
E - Mail :
TELEPHONE : Landline
Mobile
FAX :

SUPPLIER'S AUTHORISED SIGNATORY

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ORGANISATIONAL INFORMATION

3.0 OWNERSHIP INFORMATION : DOCUMENTS TO BE FURNISHED

3.1 GOVT. OF INDIA UNDERTAKING:

OR

STATE GOVT. UNDERTAKING :

OR

LIMITED COMPANY, :

MEMORANDUM AND
ARTICLES OF ASSOCIATION

OR

PRIVATE COMPANY :

MEMORANDUM AND
ARTICLES OF ASSOCIATION

OR

CO-OPERATIVE SOCIETY, :

SOCIETY RULES AND
BYE LAWS

OR

PARTNERSHIP FIRM, :

PARTNERSHIP DEED

OR

PROPRIETORSHIP, :

PROFESSION TAX REGN.
AND MUNICIPAL REGN.

ANY OTHER (SPECIFY) :

3.2 NATURE OF BUSINESS :
(MANUFACTURING UNIT/
ENGG CONSULTANT/ EPC CONTRACTOR)

(AGENTS/ DISTRIBUTORS/STOCKISTS/DEALERS/
TRADERS/ INDIAN SUBSIDIARY/ CHANNEL PARTNER – attach authorization
certificate of principal)

3.3 YEAR OF ESTABLISHMENT :

* 3.4 YEAR OF COMMENCEMENT OF BUSINESS :

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4.0 REGISTRATION PARTICULARS

(FURNISH DETAILS AND ENCLOSE COPY OF CERTIFICATE FOR THE FOLLOWING)

4.1 PERMANENT ACCOUNT NO :
4.2 CENTRAL SALES TAX REGN NUMBER :
4.3 STATE SALES TAX / TIN NUMBER :
4.4 EXCISE DUTY REGN NUMBER :
4.5 EXCISE CONTROL CODE NUMBER :
4.6 SERVICE TAX REGN NUMBER :
4.7 CATEGORY AS PER MSMED ACT : MICRO/ SMALL/ MEDIUM
REGN NO. :
VALID UPTO :
(Attach Certificate)

5.0 TOTAL ORGANISATIONAL STRENGTH : (ATTACH ORGANISATION CHART)

	GRADUATE	DIPLOMA	SKILLED	NON-SKILLED
ENGINEERING :				
MANUFACTURING :				
QUALITY :				
COMMERCIAL / SERVICE AFTER SALES :				
OTHERS :				
TOTAL :				
* 5.1 POWER BACKUP : (GIVE DETAILS)	YES/ NO			
* 5.2 DOES THE COMPANY SELL ITS PRODUCT DIRECTLY : YES/ NO				

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6.0 OTHER PARTICULARS :

(FURNISH DETAILS AND ENCLOSE DOCUMENTARY EVIDENCE/ COPY OF CERTIFICATE FOR THE FOLLOWING)

* 6.1 IF THE COMPANY IS ALREADY REGISTERED WITH ANY OF BHEL UNITS, GIVE :

6.1.1. BHEL UNIT'S NAME :

6.1.2. SUPPLIER REGN. CODE NO. :

6.1.3. ITEMS FOR WHICH REGISTERED & THEIR SPECIFICATION
(ENCLOSE PROOF OF SUCCESSFUL EXECUTION OF
ONE OR MORE PURCHASE ORDERS) :

* 6.2 IS THE COMPANY APPROVED BY
ASME / NTPC / NPC / EIL / DGS&D / RAILWAYS /
IBR / LLOYDS ETC FOR INTENDED
MATERIAL CATEGORY? : YES / NO
(ENCLOSE DOCUMENTARY EVIDENCE)

* 6.3 IS THE COMPANY ISO 9001 APPROVED? : YES / NO
(ENCLOSE CERTIFICATE & TOC OF QUALITY SYSTEM) :

* 6.4 IS THE COMPANY AN ISO 14000 APPROVED? : YES / NO
(ENCLOSE CERTIFICATE) :

* 6.5 IS THE COMPANY OHSAS - 18000 APPROVED?: YES / NO
(ENCLOSE CERTIFICATE)

* 6.6 TECHNICAL COLLABORATOR :
(FOREIGN OR INDIGENOUS)
(ENCLOSE DOCUMENTARY EVIDENCE)

* 6.7 R&D SET UP

6.8 DIRECTORS / PARTNERS, IF RELATED TO ANY
BHEL EMPLOYEE.
NAME :
STAFF NO. :
DESIGNATION :
Unit & DEPARTMENT :
RELATIONSHIP :

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6.9 IF ANY EX-BHEL PERSONNEL IS EMPLOYED BY THE COMPANY, MENTION HIS / HER DETAILS OF LAST POSTING.

NAME :
STAFF NO. :
DESIGNATION :
UNIT & DEPARTMENT :
DATE OF LEAVING SERVICE :

6.10 COMPANY'S WEEKLY HOLIDAYS :

WORKS OFFICE

6.11 EXPERIENCE LIST:

(ATTACH LIST OF PRESENT CUSTOMERS WITH NAME & ADDRESS FOR OFFERED / SIMILAR TYPE & SIZE OF ITEM / EQUIPMENT FOR WHICH REGISTRATION HAS BEEN SOUGHT AND WITH WHOM YOU HAVE CONTINUOUS BUSINESS SINCE LAST THREE YEARS . ALSO ATTACH PERFORMANCE CERTIFICATES ISSUED BY ANY TWO CLIENTS FOR SUCCESSFUL EXECUTION OF THE CONTRACTS FOR LAST TWO YEARS- FOR PEM)

***6.12 DETAILS OF PENDING LEGAL ISSUES ON CONTRACTUAL ASPECTS WITH CUSTOMER , IF ANY**

6.13 The following information of Bank Account of the Company, duly endorsed by the Bank (required for Electronic Fund Transfer –EFT/RTGS) is to be submitted

1. Name of the Company
2. Name of Bank
3. Name of Bank Branch
4. City/Place
5. Account Number
6. Account type
7. IFSC code of the Bank Branch
8. MICR Code of the Bank Branch
9. Details of other Bankers (for reference purpose only)

NOTE :

Suppliers who have already submitted the above information are requested to submit a copy of the same.

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ORGANISATIONAL INFORMATION

7.0 MANUFACTURING FACILITIES:

***7.1 LIST OF MANUFACTURING FACILITIES/EQUIPMENTS (INCLUDING MATERIAL HANDLING FACILITY)**

SL. NO	DESCRIPTION OF MACHINE/EQUIPMENT	QUANTITY	MAKE & YEAR OF INSTALLATION	REMARKS

IN CASE OF SPACE LIMITATION, PLEASE ENCLOSE ANNEXURE / CATALOGUE WITH TAG

*** 7.2 IF IN-HOUSE MFG FACILITIES NOT AVAILABLE, INFORM SOURCE OF MFG. DETAILS ALONGWITH THEIR FACILITIES & EXPERIENCE**

SL. NO	PROCESS OUTSOURCED	NAME OF THE COMPANY	DESCRIPTION OF MACHINE / EQUIPMENT	REMARKS

IN CASE OF SPACE LIMITATION ENCLOSE ANNEXURE / CATALOGUE WITH TAG

*** 7.3 RATIO OF OUTSOURCED COST TO TOTAL PRODUCTION VALUE:**

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8.0 INSPECTION & TESTING FACILITIES:

*** 8.1 LIST OF INSPECTION & TESTING FACILITIES / EQUIPMENT**

SL. NO	DESCRIPTION OF FACILITY/ EQUIPMENT & CAPACITY	NOS.	MAKE & YEAR OF MANUFACTURING	LAST DATE OF CALIBRATION
IN CASE OF SPACE LIMITATION ENCLOSE ANNEXURE / CATALOGUE WITH TAG				

*** 8.2 IF IN-HOUSE TESTING FACILITIES NOT AVAILABLE, INDICATE SOURCE OF TESTING ALONGWITH THEIR FACILITIES & EXPERIENCE**

SL. NO	TEST	SOURCE OF TESTING	DESCRIPTION OF FACILITY/ EQUIPMENT & CAPACITY	APPROVAL OF EQUIPMENT/ PROCESS/PERSONNEL QUALIFICATION
IN CASE OF SPACE LIMITATION ENCLOSE ANNEXURE / CATALOGUE WITH TAG				

Note:

In case of outsourcing of major testing such as NDT, Electrical & Mechanical Testing, no marks will be awarded. However, material composition testing by chemical method from recognized laboratory shall not attract negative marking

SUPPLIER'S AUTHORISED SIGNATORY

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ORGANISATIONAL INFORMATION					
FINANCIAL INFORMATION FOR THE PREVIOUS FOUR YEARS					
9.0	Parameter	Year 1	Year 2	Year 3	Year 4
		(Years in ascending order, Money value in Rs. Lakhs)			
* 9.1	NET WORTH (Share Capital +Reserves)				
	Growth over previous year (%)	-----			
9.2	LONG TERM DEBT / LOAN				
* 9.3	DEBT EQUITY RATIO Long term Debt (9.2) Net worth (9.1)				
9.4	INVESTMENT IN: Land & Building				
	Plant & Machinery				
	Other Fixed Assets				
9.5*	NET CURRENT ASSETS a) Cash on hand				
1	b) Account receivable				
	c) Inventories				
	Total				
	CURRENT LIABILITY a) Sundry creditors				
2	b) Interest accrued but not due				
	c) Other liabilities				
	Total				
3	* QUICK RATIO CA - INVENT. {9.5(1)-9.5(1)c} Current liability {9.5 (2)}				
* 9.6	SALES				
	Growth over previous year (%)	-----			
* 9.7	PROFIT BEFORE TAX				
	Growth over previous year (%)	-----			
* 9.8	Whether the supplier has been referred to BIFR / NCLT / any other Govt agency (If YES , enclose details)				YES / NO
* 9.9	Whether the supplier is a potential sick company.(If YES , enclose details)				YES / NO
NOTE: 1. Copies of annual accounts (Balance Sheet) for the last four years (or from date of incorporation which ever is less) along with audit report are to be submitted. The above details shall be highlighted in the Balance Sheet. 2. Status of Tax assessments done under various laws (Income Tax, VAT/Sales Tax, Excise & Service Tax, Custom) and details of disputes pending, if any, with these authorities to be submitted.					
SUPPLIER'S AUTHORISED SIGNATORY			BHEL CERTIFIED ASSESSOR		

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10. LIST OF ENCLOSURES (Tags to be put on enclosures) :

- | | | |
|--------|---|------------|
| (i) | MEMORANDUM AND ARTICLES OF ASSOCIATION / SOCIETY RULES AND BYE LAWS / PARTNERSHIP DEED/ PROFESSION TAX REGN & MUNICIPAL REGN. | : YES / NO |
| (ii) | Copy of certificate of following:- | |
| | • PERMANENT ACCOUNT NO | : YES / NO |
| | • CENTRAL SALES TAX REGN NUMBER | : YES / NO |
| | • STATE SALES TAX / TIN NUMBER | : YES / NO |
| | • EXCISE DUTY REGN NUMBER | : YES / NO |
| | • EXCISE CONTROL CODE NUMBER | : YES / NO |
| | • SERVICE TAX REGN NUMBER | : YES / NO |
| | • REGN NUMBER OF CATEGORY AS PER MSMED ACT | : YES / NO |
| (iii) | ORGANISATION CHART | : YES / NO |
| (iv) | If registered with any other BHEL Unit, | |
| | • LETTER OF REGISTRATION WITH BHEL UNIT | : YES / NO |
| | • PROOF OF SUCCESSFUL EXECUTION OF ONE OR MORE PURCHASE ORDERS | : YES / NO |
| (v) | Letter of approval from ASME / NTPC / NPC / EIL / DGS&D / RAILWAYS /IBR / LLOYDS ETC | : YES / NO |
| (vi) | Accreditation certificate for | |
| | • ISO: 9001 | : YES / NO |
| | • TOC of Quality System Manual | : YES / NO |
| | • ISO : 14000 | : YES / NO |
| | • OHSAS , ISO 18000 | : YES / NO |
| (vii) | Letter regarding technical collaboration | : YES / NO |
| (viii) | Experience List / Performance certificate | : YES / NO |
| (ix) | Balance Sheet for the last four years along with audit Report | : YES / NO |
| (x) | Principal's authorization in case of dealers/ agents | : YES / NO |
| (xi) | EFT Bank's certificate | : YES / NO |

I /WE GIVE THE UNDERTAKING THAT BHEL DRAWINGS & SPECIFICATIONs SHALL NOT BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF BHEL AND/ OR FOR SUPPLY OF ANY MATERIAL, PRODUCT OR SERVICES DIRECTLY OR INDIRECTLY TO ANY OTHER CUSTOMER.

Maximum Marks = 50

Negative Marks = -13

Minimum Qualifying marks = 30

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Part B (QUALITY SYSTEM):

Sl. No	PARAMETERS	SYSTEM IN EFFECT (Tick if exists & provide evidences if ticked in written procedure)		RECORDS (Tick if available & submit evidences)	REMARKS
		Written Procedure	Practice		
1*	Incoming Material Control System				Furnish a copy of system and organization.
2*	In process control				Furnish at least one work instruction & record of process control parameter
3*	Manufacturing / Testing Procedure Qualification				Procedure Qualification specification may be submitted
4*	Personnel qualification for 3 above.				Record of Personnel qualification (PQR) to be submitted
5*	Calibration system				Submit list of instrument & their calibration status
6*	System of Identification & Traceability of materials, tools, jigs, fixtures & processed components, etc.				Copy of procedure to be submitted
7*	System of Storage, Preservation , Painting & packing				Copy of procedure to be submitted
8*	System of NCR disposition & corrective preventive action				Two copies of NCR & CAPA
9*	Customer complaints handling system				Submit list of customer complaints & status for the last three years
10*	Safety measures				Submit copy of safety system & Record of accidents for last three years
11	Any other quality initiative				

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Part B (QUALITY SYSTEM):

12. LIST OF ENCLOSURES

- (i) Copy of system of control incoming materials and organization chart
- (ii) Copy of at least one process control work instruction
- (iii) Record of process control parameter
- (iv) Copy of at least one Procedure Qualification specification
- (v) Record of Personnel qualification (PQR)
- (vi) List of instrument & their calibration status
- (vii) Copy of procedure for Identification & Traceability of materials, tools, jigs, fixtures & processed components, etc.
- (viii) Copy of procedure for Storage/ preservation/ painting & packing
- (ix) Copies of two NCRs and their CAPA.
- (x) List of customer complaints & status for the last three years
- (xi) Copy of safety system
- (xii) Record of accidents for last three years

Maximum Marks = 25

Minimum Qualifying marks = 15

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Part C: TECHNICAL COMPETENCE

Technical competence shall be evaluated in two parts viz. common competence and product/material category specific competence.

(i) COMMON TECHNICAL COMPETENCE

TECHNICAL COMPETENCE (where design specification is given by BHEL)	MARKING RANGE	Marking range, if product specific technical competency not required	SUPPLIER RESPONSE (ALONG WITH SUPPORTING DOCUMENTS)#	MARKS BY BHEL
1. Supplier understands the product specification.	(0-3)	(0-8)		
2. Supplier understands the inspection requirements.	(0-2)	(0-5)		
3. Supplier has process capability to achieve the product specification/dimensional requirement.	(0-3)	(0-8)		
4. Supplier has experienced manpower to carry out the job.	(0-2)	(0-4)		
TOTAL MARKS OUT OF POSSIBLE	10	25		

OR

TECHNICAL COMPETENCE (where performance specification is given by BHEL)	MARKING RANGE	Marking range, if product specific technical competency not required	PROCEDURE		SYSTEM IN EFFECT		RECORDS	
			SUPPLIER RESPONSE (ALONG WITH SUPPORTING	MARKS BY BHEL	SUPPLIER RESPONSE (ALONG WITH SUPPORTING	MARKS BY BHEL	SUPPLIER RESPONSE (ALONG WITH SUPPORTING	MARKS BY BHEL
1. Design capability	(0-3)	(0-8)						
2. Adequacy of quality assurance plan	(0-2)	(0-5)						
3. Process capability for components	(0-3)	(0-8)						
4. Adequate of testing	(0-2)	(0-4)						
TOTAL MARKS OUT OF POSSIBLE Average of Total (Total/3) = -----	10	25						

(ii) PRODUCT/ MATERIAL CATEGORY SPECIFIC TECHNICAL COMPETENCE

(Max Marks: 15)

Unit MISCC to structure the parameters to be considered for the technical competence depending on material category. The score of individual parameter selected is to be decided by MISCC. MISCC shall identify the requirement of enclosures to be furnished by supplier.

Product:

Sl. No	Material category	Tech Parameter	Supplier's response	Remarks

To be filled up only on receipt of technical requirements/ specification, drawings, standards from BHEL and to be sent to BHEL for further scrutiny. Enclose documentary evidence where ever required.

LIST OF ENCLOSURES:

Maximum Marks = 25

Minimum Qualifying marks = 15

No marks is to be given by the supplier. Only supplier response along with supporting documents.

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Part D : SCORE SHEET

1. ORGANISATIONAL SOUNDNESS (for Manufacturers):

S.N.	PARAMETER	CRITERIA	Maxm. Marks	Marks Awarded
1.	Whether all relevant information like ownership, PAN no., sales tax no., excise duty no., etc. submitted	Yes: 2 No: 0	2	
2.	3.4 YEAR OF COMMENCEMENT OF BUSINESS	More than 5 years : 2 1-5 years : 1 Less than 1 year : 0	2	
3.	5.1 POWER BACKUP	Yes : 1 No : 0	1	
4.	5.2 DOES THE COMPANY SELL ITS PRODUCT DIRECTLY	Yes : 1 No : 0	1	
5.	6.1 REGISTERED WITH ANY OF BHEL UNITS	Yes (same item) : 2 Yes (another item) : 1 No : 0	2	
6.	6.2 APPROVAL BY ASME/ NTPC/ NPC/ EIL/ DGS&D/ RAILWAYS/ IBR/ LLOYDS ETC	Yes : 2 No : 0	2	
7.	6.3 ISO 9001 ACCREDITATION	Yes : 3 No : 0	3	
8.	6.4 ISO 14000 ACCREDITATION	Yes : 1 No : 0	1	
9.	6.5 OHSAS - 18000 ACCREDITATION	Yes : 1 No : 0	1	
10.	6.6 TECHNICAL COLLABORATOR : (FOREIGN OR INDIGENOUS)	Yes : 1 No : 0	1	
11.	6.7 R & D SET UP	Yes : 1 No : 0	1	
12.	6.12 PENDING LEGAL ISSUES ON TECHNO – COMMERCIAL ASPECTS WITH CUSTOMER	Yes : -5 No : 0	0	
13.	7.1 & 7.2 MANUFACTURING FACILITIES INCLUDING OUTSOURCING	Adequate : 3 Substantial : 2 Inadequate : 0	3	
14.	7.3 RATIO OF OUTSOURCED COST TO TOTAL PRODUCTION VALUE	Less than 10% : 2 10 to 30 % : 1 More than 30% : 0	2	
15.	8.1 INSPECTION & TESTING FACILITIES	Adequate : 2 Substantial : 1 Inadequate : 0	2	
16.	8.2 OUTSOURCING OF MAJOR TESTING FACILITY (Refer Note)	Yes : 0 No : 1	1	
	TOTAL		25	

1. ORGANISATIONAL SOUNDNESS (for Indian Stockist/ Trader/ Distributor/ Dealer/ Authorised Agent/ Channel partner/ Indian Sales office or Subsidiary of registered foreign principal):

S.N.	PARAMETER	CRITERIA	Maxm. Marks	Marks Awarded
1.	Whether all relevant information like ownership, PAN no., sales tax no., etc. submitted (clause 6.0 of chapter V to be referred in this regard)	Yes: 7 No: 0	7	
2.	3.4 YEAR OF COMMENCEMENT OF BUSINESS	More than 3 years : 2 1-3 years : 1 Less than 1 year : 0	2	
3.	6.1 REGISTERED WITH ANY OF BHEL UNITS	Yes (same item) : 2 Yes (another item) : 1 No : 0	2	
4.	6.2 APPROVAL BY ASME/ NTPC/ NPC/ EIL/ DGS&D/ RAILWAYS/ IBR/ LLOYDS ETC	Yes : 2 No : 0	2	
5.	6.3 ISO 9001 ACCREDITATION	Yes : 2 No : 0	2	
6.	6.12 PENDING LEGAL ISSUES ON TECHNO – COMMERCIAL ASPECTS WITH CUSTOMER	Yes : -5 No : 0	0	

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Part D: SCORE SHEET

2. FINANCIAL INFORMATION (for Manufacturers):

S.N.	PARAMETER	CRITERIA	Maximum Marks	Marks Awarded
1.	9.1 Growth of Net Worth over previous year (%) Average of three years to be worked out	More than 20 % : 5 10 – 20 % : 4 5 – 10 % : 3 > 0 & < 5 % : 2 0 or below : 0	5	
2.	9.3 DEBT EQUITY RATIO <u>Long term Debt (9.2)</u> <u>Net worth (9.1)</u>	1 : 1 : 5 1.1 upto 1.5 : 1 : 4 1.6 upto 2.0 : 1 : 3 2.0 & above : 1 : 2	5	
3.	9.5 QUICK RATIO <u>CA - INVENTORIES {9.5(1)-9.5(1)c}</u> Current liability {9.5 (2)}	1 : 1 : 5 1 : 1 upto 1.5 : 4 1 : 1.5 upto 1.75 : 3 1 : 1.75 upto 2.5 : 2 1 : > 2.5 : 0	5	
4.	9.6 Growth in Sales over previous year (%) Average of three years to be worked out	More than 35% : 5 20 -35 % : 4 10 – 20 % : 3 5 – 10 % : 2 > 0 & < 5 % : 1 0 or negative : 0	5	
5.	9.7 PROFIT BEFORE TAX Growth over previous year (%)	More than 20 % : 5 10 – 20 % : 4 5 – 10 % : 3 > 0 & < 5 % : 2 0 or below : 0	5	
6.	9.8 Whether the supplier has been referred to BIFR / NCLT/ any other similar Govt agency	Yes: -5 No : 0	0	
7.	9.9 Whether the supplier is a potentially sick company	Yes: -3 No : 0	0	
TOTAL			25	

Note: If the supplier is new in business and does not have past data, then the evaluation will be done on the basis of information provided by him and will be decided by MISCC.

2. FINANCIAL INFORMATION (for Indian Stockist/ Trader/ Distributor/ Dealer/ Authorised Agent/ Channel partner/ Indian Sales office or Subsidiary of registered foreign principal):

S.N.	PARAMETER	CRITERIA	Maximum Marks	Marks Awarded
1.	9.6 Growth in Sales over previous year (%) Average of three years to be worked out	More than 35% : 5 20 -35 % : 4 5 - 20 % : 3 >0 - 5 % : 2 0 or negative : 0	5	
2.	9.7 PROFIT BEFORE TAX Growth over previous year (%)	More than 20 % : 5 5 – 20 % : 4 >0 – 5 % : 3 0 or below : 0	5	

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Part D : SCORE SHEET

3. QUALITY SYSTEM :

S.N.	PARAMETER	CRITERIA	Maxm. Marks	Marks Awarded
1.	Incoming Material control System	System availability : Yes: 1 No : 0	1	
		Availability of Organisation chart Yes: 1 No : 0	1	
2.	Process control	Work instruction available: Yes: 1 No : 0	1	
		Record of process Control : Available : 2 Partial record : 1 Not available: 0	2	
3.	Manufacturing / Testing Procedure Qualification	Procedure Qualification Specification : Adequate : 3 In adequate: 1 Not available : 0	3	
4.	Personnel qualification	Record of PQR: Adequate : 3 In adequate: 1 Not available : 0	3	
5.	Calibration system	Adequate : 3 In adequate: 1 Not available : 0	3	
6.	System of Identification & Traceability of materials, tools, jigs, fixtures & processed components, etc.	Procedure available : Adequate : 2 In adequate: 1 Not available : 0	2	
7.	System of Storage/ preservation/ painting & packing	Procedure available : Adequate : 2 In adequate: 1 Not available : 0	2	
8.	System of NCR disposition & corrective preventive action	Two copies of NCR & CAPA Available :2 Not available : 0	2	
9.	Customer complaints handling system	System available : Yes: 1 No : 0	1	
		Complaints registered & resolved : 2 Complaints registered & partially resolved : 1 Complaints not registered or not resolved : 0	2	
10.	Safety measures	System available : Yes: 1 No : 0	1	
		Record available : Yes: 1 No : 0	1	
	TOTAL		25	

BHEL CERTIFIED ASSESSOR

BHARAT HEAVY ELECTRICALS LIMITED SUPPLIER REGISTRATION FORM

FORM NO. SRF(I) 01 (INDIAN SUPPLIER)

ANNEXURE-II
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Part D : SCORE SHEET

4. TECHNICAL COMPETENCE

	Maximum Marks (1)	Marks obtained (2)
A. Common Technical Competence		

And/ or

B. Product Specific Technical Competence

Column no. 1 to 4 to be filled by MISCC before sending to supplier. Column no. 5 to be filled by BHEL certified Assessor after evaluation of supplier response.

Sl. No (1)	Parameter (2)	Scoring criteria (3)	Maximum Marks (4)	Marks obtained (5)
	Sub-Total		15	

TOTAL (A+B): 25 ()

SUMMARY:

Sl. No	Criteria	Maxm Marks	Qualifying marks *	Marks obtained	Recommendation for registration
1.	Organisational Soundness	50	30		Recommended : Permanent code /Development code/ Trial code Not recommended
	Financial Information				
2.	Quality System	25	15		
3.	Technical Competence	25	15		
	TOTAL	100	60		

***Minimum Qualifying Score in Each category shall be 60%.**

REGISTRATION CRITERIA:

Sl. No	Score	Recommendation
1.	More than 90	Supplier is to be registered and given Permanent code, Normally no visit is called for.
2.	>75 <=90	Supplier may be visited if recommended by MISCC or to be registered and given permanent code.
3.	>=60 <=75	Supplier may carry out suggested improvements if advised by MISCC Supplier's visit is mandatory. Trial/ Development code may be given.
4.	Less than 60	Not to be registered

Note: Indian Stockist/ Trader/ Distributor/ Dealer/ Authorised Agent/ Channel partner/ Indian Sales office or Subsidiary of registered foreign principal are to be awarded marks on pro-rata basis and registered accordingly.

Signatures: MISCC and Suppler Evaluation Team (in case of visit)

1)

2)

3)

4)

5)

6)

BHEL CERTIFIED ASSESSOR

ANNEXURE – L

AUTHORIZATION LETTER FOR PARTICIPATING TENDER OPENING
(ON BIDDER'S LETTER HEAD)

Ref: Tender-OS-BAP-BHEL

Dt:.....

We, M/s.....
(name of the Tenderer)

hereby authorize Mr / Ms.....
(Name of the representative)

to participate in the Tender opening at BHEL-Ranipet for **Tender No: 667115E**
dt.10.01.2018.

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

(Signature of the representative)

-/Signature of the representative is attested/-

(Signature of Authorized Person with Firm Seal)

BHEL
RANIPET

BHARAT HEAVY ELECTRICALS LTD.
BOILER AUXILIARIES PLANT
RANIPET 632 406

PR:QA:500
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QUALITY DEPARTMENT

PROCEDURE FOR

**ALLOWABLE DEVIATIONS FOR
DIMENSIONS WITHOUT SPECI-
FIED TOLERANCES**

EFFECTIVE DATE

16/01/93

	NAME	SIGNATURE	DATE
PREPARED BY	K NITHIANANDAM	<i>K. Nithianandam</i>	16/1/93
REVIEWED BY	S ANIL KUMAR	<i>S. Anil Kumar</i>	16/1/93
APPROVED BY	P H TAMBAKHE	<i>P. H. Tambakhe</i>	16/1/93

ISSUED BY : **QUALITY ASSURANCE**

REVISION : **NIL**

DATE :

DOCUMENT CONTROL NO:

72

File Name :PHT.RSU

QUALITY DEPARTMENT

1. Table 1 given below indicates the permissible variation in Linear Dimension of fabricated and machined components. The coarse grade is to be followed for fabricated components and medium grade for machined components.
2. Table 2 given below indicates the permissible deviations for Radii & Chamfers for machined components.
3. Table 3 given below indicates the permissible deviations for Angular dimensions for machined components.
4. Table 4 given below indicates the conditions under which the deviations given in this standard are not applicable.
5. Special rulings may be stated for linear dimensions of welded structures consisting of several assemblies.
6. If closer tolerances than those given in this procedure are necessary, the same shall be indicated in the relevant drawings.

TABLE - 1

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Deviations in mm for the nominal size range in mm													
Degree of accuracy	0.5 * up to 3	Over 3 upto 6	Over 6 upto 30	Over 30 upto 120	Over 120 upto 400	Over 400 upto 1000	Over 1000 upto 2000	Over 2000 upto 4000	Over 4000 upto 8000	Over 8000 upto 12000	Over 12000 upto 16000	Over 16000 upto 20000	
f (fine)	± 0.05	± 0.05	± 0.1	± 0.15	± 0.2	± 0.3	± 0.5	± 0.8	-	-	-	-	-
m (medium)	± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.0	± 2	± 3	± 4	± 5	± 6	
g (coarse)	± 0.15	± 0.2	± 0.5	± 0.8	± 1.2	± 2	± 3	± 4	± 5	± 6	± 7	± 8	
sg (very coarse)	-	± 0.5	± 1	± 1.5	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 12	

* In the case of nominal sizes below 0.5 mm, the deviations must be specified directly by the side of the nominal size.

TABLE - 2

DEVIATIONS FOR RADII & CHAMFERS

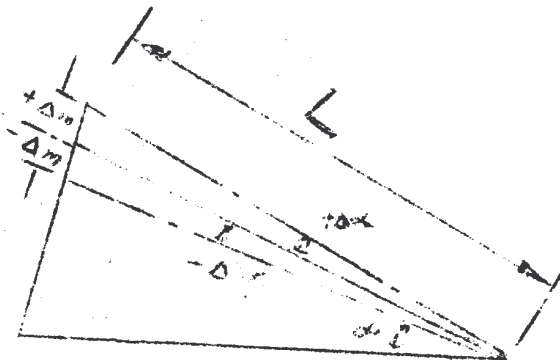
All dimensions are in mm

CLASS OF DEVIATION	RANGE OF NOMINAL DIMENSIONS					
	Above	0.5	3	6	30	120
Fine & Medium	Upto and Including	3	6	30	120	315
		± 0.2	± 0.5	± 1	± 2	± 4

TABLE - 3

DEVIATIONS FOR ANGULAR DIMENSIONS

$\Delta\alpha$ =Angle Tolerance
in angular units
 Δm =Angle Tolerance
in linear units



All Dimensions are in mm

CLASS OF DEVIATIONS	Length (L) of shorter side of angle in mm							
	Above	-	10	50	120	500	800	1250
FINE AND MEDIUM	Upto & including	10	50	120	500	800	1250	2000
	Δm (mm)	± 0.1	± 0.2	± 0.6	± 0.8	± 0.96	± 1.125	± 1.5
	$\Delta\alpha$ (deg or min)	$\pm 1^\circ$	$\pm 30'$	$\pm 20'$	$\pm 10'$	$\pm 4'$	$\pm 3'$	$\pm 2'3''$

TABLE - 4
NON APPLICABILITY OF THE STANDARD

STANDARD SPECIFICATION	CONDITIONS FOR TOLERANCING	DIMENSIONS	PRODUCTION METHOD	SPECIAL AGREEMENTS
where permissible deviations have been specified	where higher values than those specified in Table 1 and 2 may be allowed.	For dimensions required to give a certain class of it	Casting, forging, pressing, rolling, welding, flame cutting	where variations from this standard are agreed upon between the purchaser and the manufacturer
	Where only positive or only negative deviations are desired Where parts are manufactured separately and are required to be assembled together without any further treatment (selective assembly, spare parts etc)	For dimensions resulting after assembly Where concentricity between parts is required For angular dimensions of a circular division (For example, angular positioning of teeth of clutches) For angular dimensions in precision taps and in pipe bends For dimensions of welded assemblies (unless the part is to be machined)		

Procedure for Surface Preparation and Painting

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Procedure for Surface preparation and Painting

Prepared By	V SUNDARAM SEF/QA	<i>V Sundaram</i>
-------------	-------------------	-------------------

Reviewed By	B SRINIVASA RAO DGM/QA	<i>B. Srinivasa Rao</i>
	S RAGHUNATHAN SM/EDC/APH	<i>S Raghunathan</i>
	P JAYAKANTH DGM/EDC/AQCS	<i>P. Jayakanth</i>
	K GOPALASAMY SDGM /EDC/FANS	<i>K. Gopal</i>
	P RAVIKUMAR DGM/ EDC /G&D AND DP	<i>P. Ravi Kumar</i>

Approved By	H ANANTHANARAYANAN AGM/QA&OLI	<i>H Ananth</i>
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Record of revision

Rev No.	Effective Date	Details of revision
00	10 10 02	RP0674199 Rev 05 requirements and PRQA 590 rev 12 requirements were fully reviewed and this document is released as Rev 00 taking care of painting requirements of BAP projects. For project specific painting schemes respective CIS or contract specific painting schemes to be referred.
01	22 05 07	Painting requirement are fully reviewed. Red oxide Zinc chromate for primer application (IS 2074) is corrected as Red oxide Zinc phosphate primer (IS 12744) and also number coats & DFT corrected.

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1.0 SCOPE

- 1.1. This procedure specifies requirements for surface preparation and painting and coating, for APH, Fan, ESP, Gates & Dampers and Chimney. (For WEG and Desalination, please refer PRQA: 518/Latest and PRQA: 526/Latest respectively).
- 1.2. Section I deals with surface preparation schedule and section II deals with painting and coating.
- 1.3. Special contractual requirements, if any, will be indicated through a separate contract specific documents with customer approval, when required. The linkage will be provided in the CQR issued by QA.

2.0 GENERAL

- 2.1 This procedure specifies painting requirements to provide adequate protection up to one year in open yard at site.
- 2.2 No painting shall be applied on the stainless steel, galvanized and any plated surfaces. For estimation of requirements of painting, the approximate area of coverage on non-absorbing surface is as given below: -

SL. No.	Generic nature of paint	Theoretical covering area (Sq.M/litre)	DFT /Coat (Min)	Shade
1	Red oxide zinc phosphate primer to IS 12744	10	30	Red oxide
2	Synthetic enamel paint to IS 2932	10	20	Smoke grey
3	Heat resistant aluminum paint to IS 13183	10	20	Aluminium

- 2.3 For bought out items, the painting scheme shall be as per purchase specification. If this is not specified in purchase specification, the following is the minimum requirement
 - a) Primer: One coat of red oxide zinc Phosphate primer to IS 12744- DFT 30 microns
 - b) Finish: Two coats of synthetic enamel to IS 2932 smoke grey shade No.692 of IS 5. -DFT 20 microns per coat

Section –I

3.0 SURFACE PREPARATION REQUIREMENTS FOR PAINTING AND COATING

- 3.1. The effectiveness and duration of the protection provided by organic, inorganic and metallic coatings for corrosion protection depends among other things decisively on proper surface preparation. This section deals with the methods of surface preparation, their effectiveness and fields of application.
- 3.2. This section largely based on ISO 8501 – 1: 1988 that in turn is based on the Swedish standard SS 05 59 00.

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3.3. SURFACE PREPARATION METHODS

3.3.1. Surface preparation depends on initial condition of uncoated surfaces. The details of rust level, rust removal methods and characteristics surfaces are given in table 1.0.

3.4. DEFINITIONS AND METHODS OF CLEANING

3.5. CLEANLINESS OF SURFACES.

3.5.1. Cleaning requirements and levels of cleanliness, contaminants such as dirt, oil that will interfere with the adhesion or effectiveness of the proposed coating must be removed. Coats of materials related to the metal (scale, rust) and coats of different materials (e.g. existing coating) should be removed until the agreed level of cleanliness is attained.

3.5.2. Contaminants/coats, both of related material and of materials different from the metal may be removed in one operation if the nature, level and thickness permit this. The required level of cleanliness depends on

- The corrosion protection system selected
- The type of corrosion exposure expected
- The initial condition of the surface being prepared
- The possible rust removal method
- Economic considerations

3.5.3. Generally, the standard levels of cleanliness as in table 1.0 should be used as a basis. This does not cover the removal of weld spatter, weld or flame cutting slag or chips, repair grinding of rolling defects (laminations) deburring and similar operations.

3.6. MECHANICAL METHODS OF REMOVING RUST

3.6.1. Manual rust removal:

3.6.1.1. This applies to standard levels of cleanliness St 2, St3 as per table 1.0 manual cleaning uses wire brush, stripping knife, Swedish scraper, rust removing hammer etc., The method must not damage the metal being derusted. Subsequent cleaning by sweeping or brushing off or by blowing off with dry air.

3.6.2. Mechanical rust removal:

3.6.2.1. This applies to standard levels of cleanliness St2, St3 as per table 1.0 cleaning can be done by mechanically driven rust removing tools viz., rotating wire brush, impact piston devices or rotary descalers, sanding discs etc. The surface areas where the power driven tool cannot enter, manual cleaning should be done. The method must not damage the metal being derusted. Subsequent cleaning by sweeping or brushing off or blowing off with dry air.

3.6.3. Blast cleaning

3.6.3.1. This applies to standard levels of cleanliness Sa 1, Sa 2½, Sa 3 as per table- 1.0. Chemically contaminated surfaces must be pre-washed. Surfaces having coarse rust must be pre-cleaned with impact tools prior to blast cleaning.

3.6.3.2. Compressed air blasting is generally recommended for our operations. It is a freely directed air blasting in blasting cubicles, Rooms or sheds with re-circulation of blasting abrasives.

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3.6.4. REMOVAL OF CONTAMINANTS/COATS OF MATERIAL DIFFERENT FROM THE METAL

3.6.4.1. Surface of metal contaminated with cutting fluid (machine coolant) oil or grease shall be wiped with mineral turpentine/tri-chloroethylene prior to applying any methods of mechanical surface preparation.

3.6.4.2. If any old paint film or rust preventive films are present they may be removed with paint removing jelly.

3.6.4.3. As far as possible the cleaning method should be so chosen that all the scale is removed from the metallic surface to be coated. For heavily scaled metallic surfaces either blasting or pickling may be adopted over and above the requirements called for in the table 1.0.

3.6.5. NOTES TO TABLE 1.0

3.6.5.1. Initial condition of uncoated surfaces (rust grade as per SS 05 59 00)

- Steel surface largely covered with adhering mill scale but little, if any rust.
- Steel surface, which has begun to rust, and from which the mill scale has begun to flake.
- Steel surface on which the mill scale has rusted away or from which it can be scrapped, but with slight pitting visible under normal vision.
- Steel surface on which the mill scale has rusted away and on which general pitting is visible under normal vision.

3.6.5.2. Standard level of cleanliness equivalent to steel structures painting council of US (SSPC) also given in brackets in table 1.0.

Table 1.0

Standard level of cleanliness	Rust removal method	Initial condition of steel surfaces (Uncoated ref.4.5)	Essential Characteristics of the prepared steel surface
St 2 (SSPC-SP 2)	Thorough hand and power tool cleaning	B, C, D	When viewed without magnification, the surface shall be free from visible oil, grease and dirt, and from poorly adhering mill scale, rust coatings and foreign matter.
St 3 (SSPC SP 3)	Very Thorough hand and power tool cleaning	B, C, D	As for St 2, but the surface shall be treated much more thoroughly to give a metallic sheen arising from the metallic substrate.
Sa 1 (SSPC SP 7)	Light blast cleaning	B, C, D	When viewed without magnification, the surface shall be free from visible oil, great and dirt, and from poorly adhering mill scale, rust, paint coatings and foreign matter.
Sa 2 (SSPC SP 6)	Thorough blast cleaning	B, C, D	When viewed without magnification, the surface shall be free from visible oil, grease and dirt, and from most of the mill scale, rust, paint coatings and foreign matter. Any residual contamination shall be firmly adhering.

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Standard level of cleanliness	Rust removal method	Initial condition of steel surfaces (Uncoated ef.4.5)	Essential Characteristics of the prepared steel surface
Sa 2 ½ (SSPC SP 10)	Very Through blast cleaning	B, C, D	When viewed without magnification, the surface shall be free from visible oil, grease and dirt, and from the mill scale, rust, paint coatings, and foreign matter. Any remaining traces of contaminations shall show only as slight stains in the form of spots or stripes
Sa 3 (SSPC SP 5)	Blast cleaning to visually clean steel.	A,B, C, D	When viewed without magnification, the surface shall be free from visible oil, grease and dirt, and from mill scale, rust, paint coatings and foreign matter. It shall have a uniform metallic colour.

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Section -II

4.0 SCHEDULE OF PAINTING AND COATING:

Table 2.0

Sl.No.	Component/PGMA	Surface preparation	Primer	DFT in µm (Min)	Finish	DFT in µm (Min)	Total DFT (Min)
1.0	Regenerative Air Pre-Heaters						
1.0.1	Heating element baskets (without elements) 52 010, 024, 025	Power tool cleaning to ST-3 (SSPC SP3)	One coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	30	NIL	--	30
1.0.2	Heating elements (with elements) 52 010, 024, 025	--	(*) Temporary rust preventive oil non dry type (Dipping)	--	NIL	--	--
1.0.3	Rotor post assembly machined items of (52 011), Pin rack assembly (52 012) seals (52 013,054,055), sector plates (52 041,042) and machined components of APH.	--	(**) Temporary rust preventive oil Dry type	20	NIL	--	20
1.0.4	Components in flue gas path and insulated Rotor post assy (52 011), T bars (52 013), Rotor housing assy. (52 030), Hot and cold connecting plate assy. (52 041,042),	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	60	NIL	NIL	60

(*) Specification as per PRQA 522/Rev 00

(**) Specification as per PRQA 523/Rev 00



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Sl.No.	Component/PGMA	Surface preparation	Primer	DFT in μm (Min)	Finish	DFT in μm (Min)	Total DFT (Min)
--------	----------------	---------------------	--------	-------------------------------	--------	-------------------------------	--------------------

1.0.5	Components exposed to Atmosphere Rotor drive assy (52 100), Access door (52 210, Air seal piping (52 211), observation port other than glass part (52 212), Rotor stoppage alarm other than aluminum (52 217), Loose items of Air receiver (52 220), Guide bearing assy (52 261), Support bearing assy (52 262), Oil piping GB, SB (52 271,272) oil circulation unit (52 274), Deluge and wash pipe assy. (52 301,302,401,402) Cleaning device assy (52 325, 326), Cleaning device drive (52 329,429), Thermo couple pipe assy. Other than SS (52 360)	Power tool cleaning to ST-3 (SSPC SP3)	One coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	30	Two coats of synthetic enamel paint to IS 2932 shade 692 of IS 5 unless specified otherwise.	40	70
-------	--	--	--	----	--	----	----

2.0	TUBULAR AIRPREHEATER						
2.1	Side walls (external surfaces and internal surfaces).	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	60	--	--	60
2.2	Machined surfaces, tubes of TAPH, Tube plates and intermediate plates	---	(**) Temporary rust preventive oil Dry type	20	NIL	NIL	20



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Sl.No.	Component/PGMA	Surface preparation	Primer	DFT in μ m (Min)	Finish	DFT in μ m (Min)	Total DFT (Min)
--------	----------------	---------------------	--------	-------------------------	--------	-------------------------	--------------------

3.0	Fans						
3.1	Foundation materials 55 0XX, 56 0XX	Power tool cleaning to ST-3 (SSPC SP3)	Temporary Rust preventive	20	--	--	20
3.2	<u>Components exposed to atmosphere</u> a) Bearing Pedestals, Base frame, Servomotor assy, shaft with Bearing assy, OGV, IGV (55-1XX, 55-2XX 55-3XX). b) Bearing Pedestals, Base frame, Shaft with bearing assy, RVC, IGV, Support for Seal, shaft protecting tube, Spiral casing (if no insulation is applicable), Damper (56-1XX, 56-2XX 56-3XX, 56-4XX) c) Coupling guard (56-8XX, 55-8XX). Tools (56-000, 55-000)	Power tool cleaning to ST-3 (SSPC SP3)	One coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	30	Two coats of synthetic enamel paint to IS 2932 shade 692 of IS 5 unless specified otherwise.	40	70
3.3	<u>Components in AIR/GAS and under insulation</u> a) Suction chamber, diffuser, housing, OGV, impeller (55-1XX, 55-2XX, 55-3XX), b) Spiral casing, damper, IGV, RVC, impeller, shaft (56-1XX, 56-2XX, 56-3XX 56-4XX). c) Silencer (56-9XX, 55-9XX)	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	60	NIL	NIL	60
3.4	Journal area Of shaft (55-1XX, 56-1XX, 55-2XX, 56-2XX, 55-3XX, 56-3XX 56 4XX						
3.5	All machined surfaces shall be applied with rust preventive.						

Refer PRQA 341 / Latest

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Sl.No.	Component/PGMA	Surface preparation	Primer	DFT in μm (Min)	Finish	DFT in μm (Min)	Total DFT (Min)
--------	----------------	---------------------	--------	-------------------------------	--------	-------------------------------	-----------------------

4.0 Electro static precipitator

4.1	GD drive Arrangement (7X X10), Drive arrangement for emitting system (7X X17), Inspection doors (7X X23), Drive arrangement for CE rapping (7X X26), Outer roof (7X X42), ESP pent House (7X X55), ESP test equipment (7X X61) Water washing system (7X X66) Tools and tackles (7X 996), Lifting beam (7X X20), Columns (7X X81) Hopper approach platform (7X X 65), Stringer and Guard plates (7X 610).	Power tool cleaning to ST-3 (SSPC SP3)	One coat of red oxide zinc phosphate primer to IS 12744 (Varnish medium alkyd)	30	Two coats of synthetic enamel paint to IS 2932 shade 692 of IS 5 unless specified otherwise.	40	70
-----	--	--	--	----	--	----	----

4.2	Insulator Housing assy.(7X X06), Gas distribution assy.(7X X08),GD rapping mechanism(7X X09), Gas screening (7X X11), Emitting system suspension (7X X13), Emitting electrode rapping (7X X16), Suspension arrangement for CE (7X X19), Frame of Emitting system Top & Bottom and Middle.(7X X21,X22,X32),Shock bars(7X X24), CE Rapping mechanism (7X X25), Ridges(7X X43), Hopper upper and Lower & Middle part (7X X44, X45),Insulator support panel (7X X46), Roof panel assy. (7X X47), Casing structure (7X X28, X48), Casing shell (7X X49), ESP Funnel (7X X50), Splitter&Guidevane (7X X57)	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of red oxide zinc phosphate primer to IS 12744 (Varnish medium alkyd)	60	NIL	--	60
-----	--	--	---	----	-----	----	----

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Sl.No.	Component/PGMA	Surface preparation	Primer	DFT in µm (Min)	Finish	DFT in µm (Min)	Total DFT (Min)
--------	----------------	---------------------	--------	-----------------	--------	-----------------	-----------------

4.3	Hand rails, post, step treads, Floor grills (89 610,611,7X X65)	Power tool cleaning to ST-3 (SSPC SP3) *	One coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	30	Two coats of synthetic enamel paint to IS 2932 black shade	40	70
4.4	EE (7X X15)EE hook, EE suspension hook (7X X13), CE (7X X20)CE, CE suspension hook (7X X19), Foundation material foe ESP structures& ducts (7X X80).	--	(**) Temporary rust preventive oil Dry type	20	--	--	20

5.0	Gates and Dampers						
5.1	Gates and dampers temperature ≤ 95°C (57 XXX)	Power tool cleaning to ST-3 (SSPC SP3)	One coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	30	Two coats of synthetic enamel paint to IS 2932 shade 692 of IS 5 unless specified otherwise.	40	70
5.2	Gates and dampers temperature > 95°C (57 XXX)	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	60	NIL	--	60
5.3	Gate blades, Machined components of G&D	---	(**) Temporary rust preventive oil Dry type	20	NIL	NIL	20

6.0	Chimney						
6.1	Foundation bolt (87 010)	Power tool cleaning to ST-3 (SSPC SP3)	(**) Temporary Rust preventive	20	--	--	20
6.2	Shells-Inside and Un insulated side, base plate (87 100),	Blast Cleaning to Sa 2 ½ (Near white metal with Surface profile 35 – 50 µm)	Two coats of Heat resistant aluminum paint as per IS 13183 (GR I -Up to 600°C,GR II 200°C to 400°C,GR III Up to 200°C)	40	NIL	--	40
6.3	Ducts un insulated, Strakes, (87 150), Painter trolley (87 200)	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of Heat resistant aluminum paint as per IS 13183 (GR I -Up to 600°C,GR II 200°C to 400°C,GR III Up to 200°C)	40	NIL	--	40

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Sl.No.	Component/PGMA	Surface preparation	Primer	DFT in μm (Min)	Finish	DFT in μm (Min)	Total DFT (Min)
6.4	Shells –out side insulated (87 100), Ducts- Insulated (87 150)	Power tool cleaning to ST-3 (SSPC SP3)	Two coats of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl).	60	--	--	60
6.5	Ladders, Hand rails, floor grills, platforms (87 300)	Power tool cleaning to ST-3 (SSPC SP3)	One coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyl)	30	Two coats of synthetic enamel paint to IS 2932 black shade	40	70

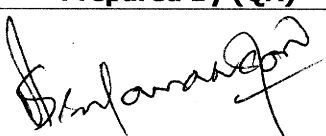
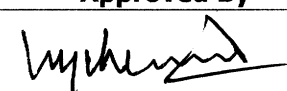
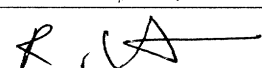
7.0	Products meant for overseas application						
7.1	Internal and External parts of APH, ESP, Fan and Gates and Damper	Blast Cleaning to Sa 2 ½ (Near white metal with Surface profile 35 – 50 μm)	Epoxy red oxide Zinc phosphate primer to IS 13238	30	Epoxy polyamide cured paint to IS 14209	30	60

Note: All components covered under different PGMA are to be painted .In case any component is left out, the same shall be deemed to be included under relevant section.

Issued by: Quality Assurance Dept BHEL Ranipet.

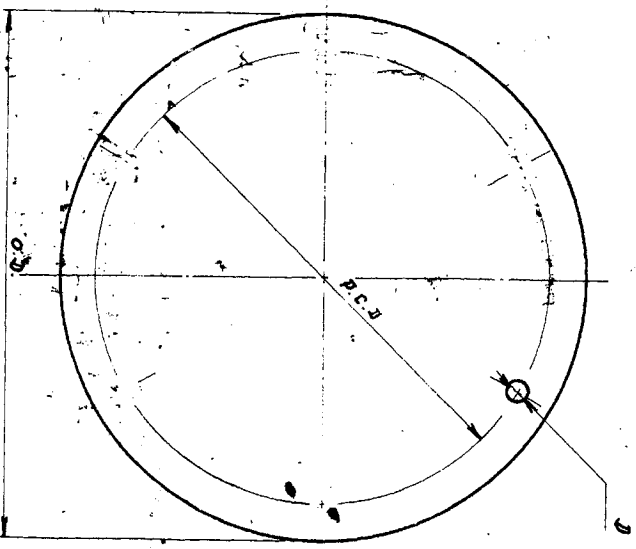
QUALITY ASSURANCE	
QWI NO: PR:QA:590 Rev.01 Dtd.02.02.2008	
Amendment to Quality Work Instruction (QWI)	
Amendment No: A1	Date:11.10.2013
Title: <i>Procedure for Surface Preparation and Painting</i>	

Details of Amendment		
Clause No	Amended As	Basis for Amendment
Refer Clause no 4.0 – Table 2 and further clause no. 3.2 a) and 3.3 a) of Table.	AP Fan components like Servo Motor Assy, Shaft with Bearing Assy (refer clause 3.2 a) and impeller (refer clause 3.3 a) of table 2.0 Presently Existing Painting Scheme: 1. Primer: one coat of red oxide zinc phosphate primer to IS 12744 (varnish medium alkyd) DFT = 30 µm. 2. Two coats of synthetic enamel paint to IS 2932 shade 692 of IS 5 Unless specified otherwise Finish= 40 µm(Primer+Finish: total DFT- 30+40=70 µm) The above painting scheme has been modified as below - only for AP fan components like Servo Motor Assy, Shaft with Bearing Assy (refer clause 3.2 a) and impeller (refer clause 3.3 a) of table 2.0 • Epoxy based Zinc Phosphate Primer (Two Pack system) as per IS:13238 – Two coats and each coat min. 30µm and total DFT will be 60 µm • Finish Paint : Not Applicable	Feedback from RCA Sub-Committee Meeting. Dt- 14.05.2013 (For quick drying of paint)

Prepared By (QA)	Reviewed By	Approved By
	QC-Shop 197 	
	QA 	

3-79-006-00213

ON DRAWING



NOTES

1. PROJECTIONS & CUTTING NOT PERMITTED.
2. PLANENESS OF PLATE TO BE MAINTAINED.
3. HOLES AT EQUAL SPACE.
4. HOLES ARE NOT REQUIRED FOR VAR-02
5. HOLES ARE TO BE MATCHED AS PER DRG. NOS. 3-79-006-00208 & 3-79-006-00209.

VAR. NO	P.C.D	D	O.D	NO. OF HOLES	REF. NO.
01	760	14	795	6	57-006
02	REF. NOTE NO. 4	840			
03	552	15	580	8	
04	760	26		6	

W.F: PROA: 590 FOR PAINTING
REF: PROA: 500 FOR UNTOL. DIMS

VARIANT	ITEM NO.	DESCRIPTION	D.T.D	DRAWING NO.	ITEM NO.	MATL. CODE	MATL. SPEC.
04		SH. 4, DIA. 840.					
03		SH. 4, DIA. 580.					
02		SH. 2, DIA. 840.					
01		SH. 2, DIA. 795.					

DATE: 11-7-89
CHKD: [Signature]
VAR-04 ADDED.

REV 01
DATE 11-7-89
CHECKED [Signature]
DIM. IS CHANGED AS 14
REV 02
CORRECTION IN VAR-02

FLANGE COVER.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd.
BOILER AUXILIARIES PROJECT
RAIPET 532 408

DEPT. C/M/F
SCALE
WEIGHT (kg)
REF. TO ASSY. DRG.

CARD CODE U 01
DRAWING NO. 3-79-006-00213

DRAWING NO.

[illegible]

08	TU-Ø21.3x2-15								IS 1239				0.014
07	HANDLE			4-79-006-00301									4
06	SLAG WOOL MATTRESS 50mm THICK - 0.61m ²												2
05	FLANGE COVER			3-79-006-00213									1
04	ANGLE			4-79-006-00306			02	IS 1079					1
03	SUPPORT FLANGE							IS 2082					2
02	SHELL - I			4-79-006-00307				96 150 188					1
01	COVER - I			4-79-006-00305									1
				4-79-006-00298									1
ITEM No.	DESCRIPTION	STD	DRAWING No.	ITEM No. VAR	MATL. CODE	MATL. SPEC	UNIT	UNIT WT.	QUANTITY	SS	ZONE		

BPS CODE : 94285117

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.



UNIT: BOILER AUXILIARIES PLANT.

NAME	SIGN	DATE	NO. OF VAR.
EOL		08.11.06	
C.GANSEH		08.11.06	
C.GANSEH		08.11.06	

REF. TO ASSY/OLD DRG.

3-79-006-00214

ITEM NO.	NO. OF ITEMS

DOOR COVER

6172-0096

Size A3

FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

ARULVEL S. OSP SOURCI, 19/12/17, PRINT REQUEST

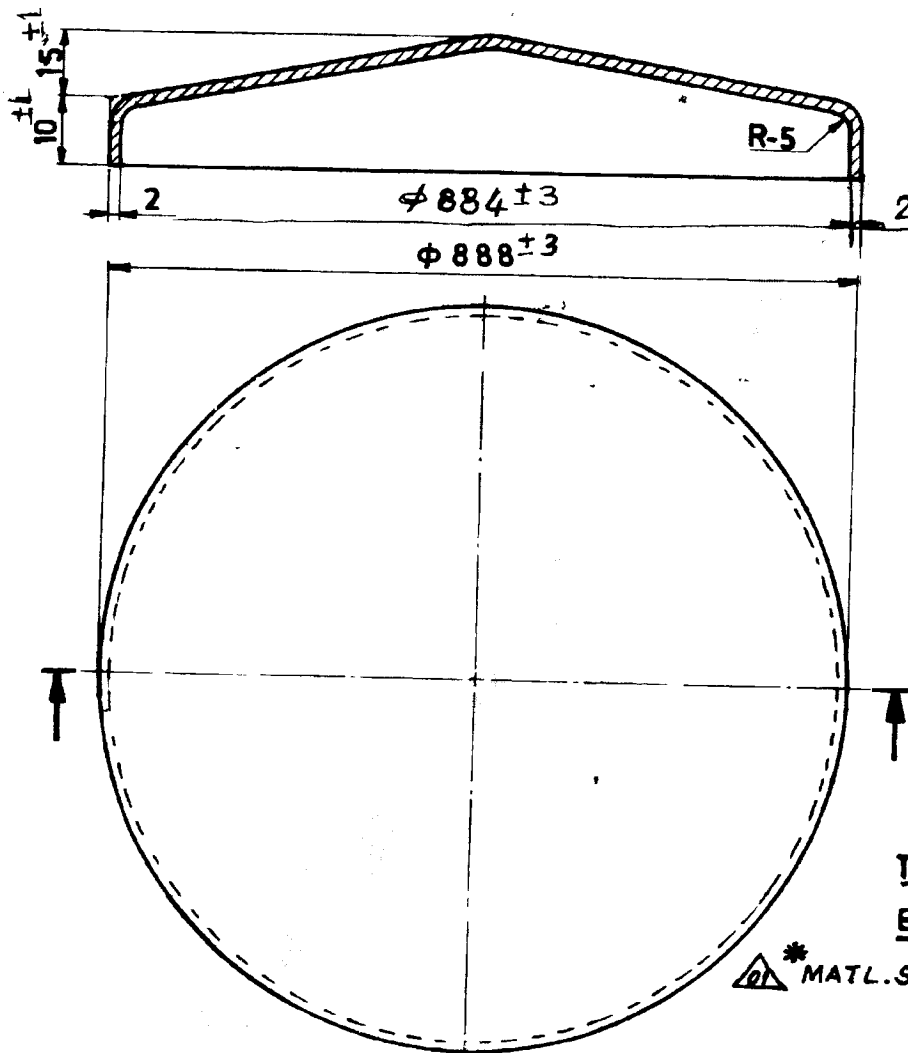
08-249/C

REV	DATE	ALTERED	BY	REV	DATE	ALTERED	BY
01	6.3.87	A. P. JOSHI		02	22/09/77		
		CHECKED	K. Pad			CHECKED	

MATL SPEC. ADDED.

TOL. ADDED FOR DIMNS.
884, 15 & 10

REF: PRQA: 590 FOR PAINTING
REF: PRQA: 500 FOR UNTOL. DIMNS



	SH. 2- ϕ 906	96-150-197	10.122
		*	1
VARIANT No.	DESCRIPTION	MATL CODE	UNIT
		MATL SPEC	QTY



Bharat Heavy Electricals Ltd.,
BOILER PLANT UNIT
TIRUCHIRAPALLI-620 014

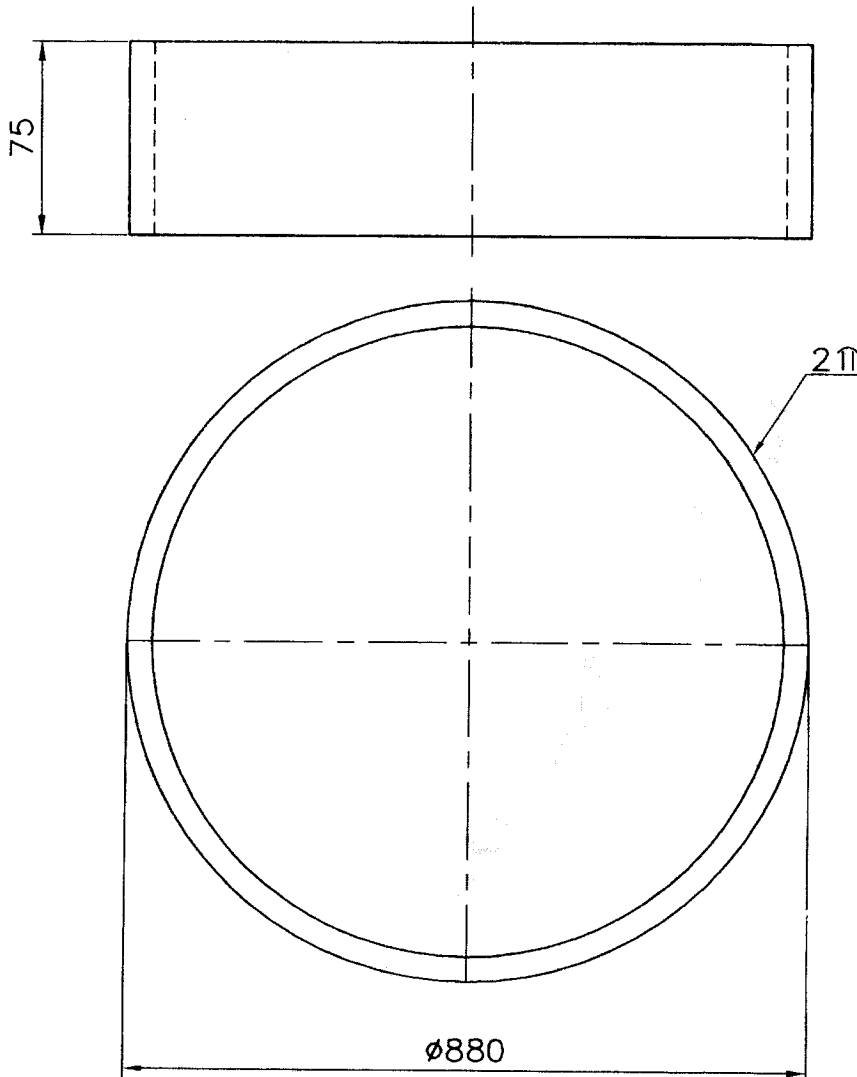
DRN	NAME	SIGN	DATE
	S.A		18.10.83
CND			
	S.M.N		18.10.83
APPD			
	L.P.		7.5.84.

DEPT.	GRADE OF	SCALE	WEIGHT (kg)	REF TO ARMY / OLD DRS	ITEM NO.
AQCS	UNTOL DIM C/M/F	/	10.122		
CODE					
250					
TITLE	CARD CODE	DRAWING NO.	REV		
COVER-I	U 01	4-79-006-00298	02		

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV 01	DATE 171203	ALTERED A.PARASU
		CHECKED C.GANESH

MATL. SPECIFICATION
CORRECTED.



01	SH 2X75X2768	15 011 104		3.259
		IS 1079		
VAR NO	DESCRIPTION	MATL. CODE	A	UNIT WT.
		MATL. SPECN.	C	QTY



BHARAT HEAVY ELECTRICALS LTD.,
UNIT: BOILER AUXILIARIES PLANT.
RANIPET - 632 406.

DRN	NAME	SIGN	DATE	NO. OF VAR
CHD	C.GANSEH			-
APPD	C.GANSEH	<i>ef</i>	07-05-84	

DEPT AQCS	GRADE OF UNTOL.DIM	SCALE	WEIGHT (KG).	REF. TO ASSY./OLD DRG.	ITEM NO.
CODE 862	PR:QA:500	N.T.S	3.259		01
TITLE	CARD CODE	DRAWING NO.	REV		
SHELL-I	U 01	4-79-006-00305	01		

ALL DIMENSIONS ARE IN MILLIMETRES

FLANGE CUTTING PLAN & NOTES
ALTERED.

BCM CORRECTED BASED ON FEEDBACK
FROM OS ON SECTION ROLLING.



1. TO BE EDGE PREPARED BEFORE WELDING.
2. PLANENESS OF FLANGE TO BE MAINTAINED.
- ~~3. CUTTING PLAN SHOWN FOR ONE FLANGE (FOUR SEGMENTS).~~
- ~~4. ADD 240mm WITH BREADTH OF 340mm FOR EACH ONE ADDITIONAL FLANGE (4-SEGMENTS).~~
- ~~5. FOR EXAMPLE PLATE REQUIREMENT IS : PL 5x640x[340+(GMS QTY.-1)x240].~~

05



BHARAT HEAVY ELECTRICALS LTD.,
UNIT: BOILER AUXILIARIES PLANT.
RANIPET - 632 406.

DRN	NAME J.S.SHERIFF	SIGN —SD—	DATE 23.04.1984	NO.OF VAR —
CHD	S.M.NAIR	—SD—	24.04.1984	
APPD	L.P.NABHAN	—SD—	24.04.1984	

DEPT AQCS	GRADE OF UNTOL.DIM		SCALE	WEIGHT (KG).	REF. TO ASSY./OLD DRG.	ITEM NO.	NO. OF ITEMS
CODE 862	PR: QA: 500		N.T.S	 4.138 4.142	COMPUTER		

TITLE

SUPPORT FLANGE

CARD
CODE
U 01

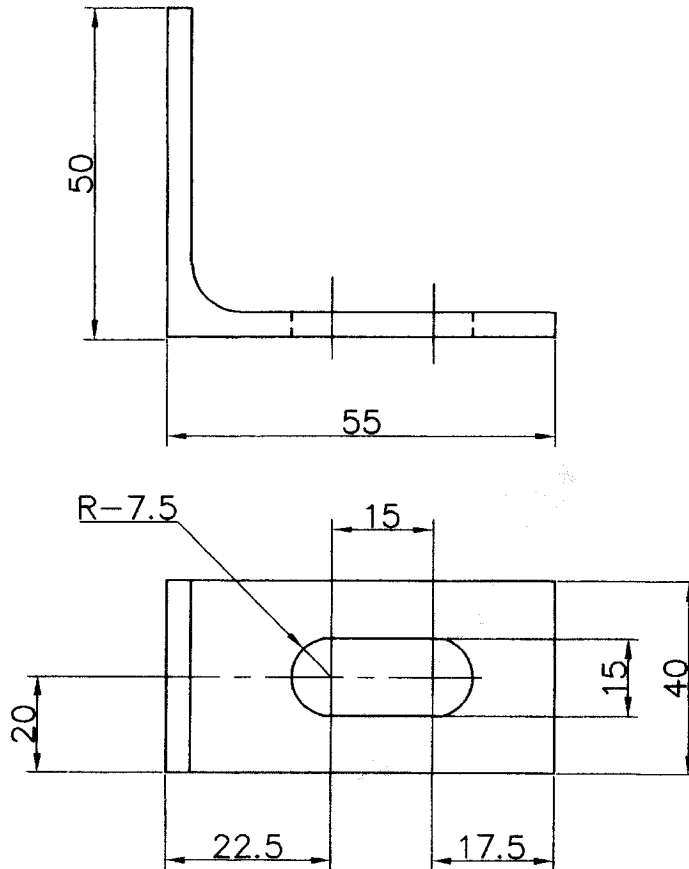
DRAWING NO.

4-79-006-00307

REV
05

REV 01	DATE 171203	ALTERED A.PARASU CHECKED C.GANESH
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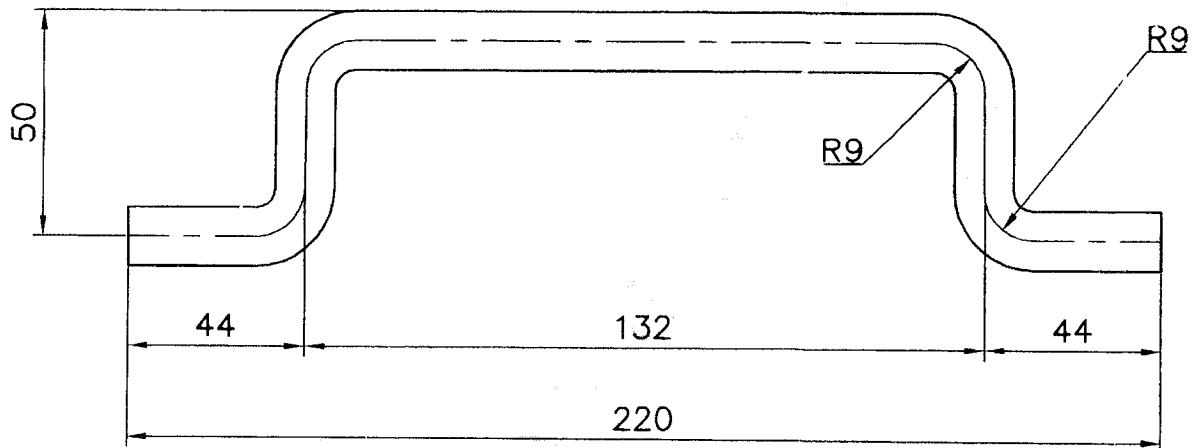
MATL. SPECIFICATION
CORRECTED.



01	ISA:65X65X6-40	15 013 059	0.166
		IS 2062	1
VAR NO	DESCRIPTION	MATL. CODE	UNIT WT.
		MATL. SPECN.	QTY

		DRN	NAME EOL	SIGN	DATE	19.10.83	NO.OF VAR
BHARAT HEAVY ELECTRICALS LTD., UNIT: BOILER AUXILIARIES PLANT. RANIPET - 632 406.		CHD	C.GANSEH		<i>efr</i>	27.04.84	-
		APPD	C.GANSEH			07.05.84	-
DEPT AQCS CODE 862	GRADE OF UNTOL.DIM <i>Z/M/P</i>		SCALE N.T.S	WEIGHT (KG). 0.166	REF. TO ASSY./OLD DRG.	ITEM NO. -	NO. OF ITEMS 01
TITLE ANGLE				CARD CODE U 01	DRAWING NO. 4-79-006-00306		REV 01

REV 01	DATE	ALTERED S.KUMER	REV 02	DATE 171203	ALTERED A.PARASU
		CHECKED			CHECKED C.GANESH
DIM.200 CHANGED AS 220			MATL. SPECIFICATION CORRECTED.		



01	ROUND ϕ 12-305	15 004 030			0.275
		IS 2062 Gr.A			1
VAR NO	DESCRIPTION	MATL. CODE	A	UNIT	UNIT WT.
		MATL. SPECN.	C	DI	QTY

 BHARAT HEAVY ELECTRICALS LTD., UNIT: BOILER AUXILIARIES PLANT. RANIPET - 632 406.		DRN	NAME EOL	SIGN	DATE 08-09-92	NO.OF VAR
DEPT AQCS	GRADE OF UNTOL.DIM	CHD	C.GANSEH		09-09-92	
CODE 862	ϕ /M/F	APPD	C.GANSEH		10-09-92	
SCALE N.T.S.		WEIGHT (KG). 0.275		REF. TO ASSY./OLD DRG.		ITEM NO. -
TITLE HANDLE		CARD CODE U 01	DRAWING NO. 4-79-006-00301			REV 02

ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

	APPROVED SOURCES		
Vendor No	VENDOR NAME	Agent/ Manufacturer	Specification
	STRUCTURALS, BEAMS, CHANNELS		
10922	ABHISHEK STEEL LTD.	Manufacturer	IS2062
20258	CORUS UK LIMITED	Manufacturer	IS2062
7347Z	CG ISPAT PVT. LTD.	Manufacturer	IS2062
20261	DAEWOO CORPORATION	Manufacturer	IS2062
20269	DILLING-GTS VENTES	Trader	IS2062
20289	FERROMET	Manufacturer	IS2062
11919	HARIYANA METALS LTD	Manufacturer	IS2062
20326	HYUNDAI CORPORATION	Manufacturer	IS2062
11934	ISPHAT PROFILES INDIA LTD.	Manufacturer	IS2062
12439	JINDAL STEEL & POWER LIMITED	Manufacturer	IS2062
11939	JINDAL STEEL & POWER LIMITED	Manufacturer	IS2062
14771	KANISHK STEEL INDUSTRIES Ltd.,	Manufacturer	IS2062
20357	KRUPP HOESCH STAHLEXPORT GMBH	Manufacturer	IS2062
20387	METAL ONE CORPORATION	Trader	IS2062
7272Z	MAHAMAYA STEEL INDUSTRIES	Manufacturer	IS2062
20388	METALEXPORTIMPORT S.A.	Trader	IS2062
20395	MOBAR ENGINEERING GMBH	Manufacturer	IS2062
11502	PRABHU STEEL INDUSTRIES LTD	Manufacturer	IS2062
12000	PRAKASH INDUSTRIES LTD	Manufacturer	IS2062
91051	R.S.JHAVERI & CO.	Agent	IS2062
11540	RASHTRIYA ISPAT NIGAM LIMITED	Sales Office	IS2062
17147	RASHTRIYA ISPAT NIGAM LIMITED,	Sales Office	IS2062
20449	SALZGITTER MANNESMANN	Manufacturer	IS2062
11609	SHAH BROTHERS & CO	Trader	IS2062
10259	STEEL AUTHORITY OF INDIA LTD	Sales Office	IS2062
91064	STEEL COMMODITIES CORPORATION	Agent	IS2062
14103	SUJANA METAL PRODUCTS LIMITED	Manufacturer	IS2062
20059	SUMITOMO CORPORATION	Trader	IS2062
10267	SUMITOMO CORPORATION INDIA PVT	Agent	IS2062
15928	THE INDIAN IRON & STEEL CO. LTD.,	Manufacturer	IS2062
11929	THE INDIAN IRON & STEEL CO.LTD	Manufacturer	IS2062
11928	THE INDIAN IRON & STEEL CO.LTD	Sales Office	IS2062
12030	THE TATA IRON & STEEL CO.LTD.	Sales Office	IS2062
20060	THYSSEN KRUPP STAHLUNION GMBH	Trader	IS2062
20501	TRADE ARBED EXPORT S.A.	Manufacturer	IS2062
14770	UNITED METAL INDUSTRIES,	Manufacturer	IS2062
10289	V.D.SWAMI AND COMPANY LIMITED	Agent	IS2062
10126	KALPANA STEEL CENTRE	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
10259	STEEL AUTHORITY OF INDIA LTD	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
10262	STEELMET INDUSTRIES	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502

1246E	JSW STEEL LTD	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
1489E	TATA STEEL LTD	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
11047	CHAMPAK STEEL & ENGINEERING CO	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
11682	STEEL AUTHORITY OF INDIA LTD	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
11912	STEEL AUTHORITY OF INDIA LTD	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
11958	LLOYDS STEEL INDUSTRIES LTD	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
11959	LLOYD STEEL INDUSTRIES LTD.,	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
12952	STEEL AUTHORITY OF INDIA LTD	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
13335	STEEL AUTHORITY OF INDIA LIMITED	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
13336	STEEL AUTHORITY OF INDIA LIMITED	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
14307	STEEL AUTHORITY OF INDIA LTD	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
14308	STEEL AUTHORITY OF INDIA LTD	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
14790	STEEL AUTHORITY OF INDIA LIMITED,	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
14857	STEEL AUTHORITY OF INDIA LIMITED	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
15064	ESSAR STEEL LIMITED,	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
15305	STEEL AUTHORITY OF INDIA LIMITED	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
15871	STEEL AUTHORITY OF INDIA	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
15928	THE INDIAN IRON & STEEL CO. LTD.,	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
16754	STEEL AUTHORITY OF INDIA LIMITED,	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
17400	STEEL AUTHORITY OF INDIA LIMITED,	Sales Office	IS277, 513, 1079, 2002, 2062, 3502
20060	THYSSEN KRUPP STAHLUNION GMBH	Trader	IS277, 513, 1079, 2002, 2062, 3502
20211	ALLEGHENY TECHNOLOGIES TAIWAN IN	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
20220	BAOSTEEL TRADING EUROPE GMBH	Trader	IS277, 513, 1079, 2002, 2062, 3502
20258	CORUS UK LIMITED	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
20269	DILLING-GTS VENTES	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
20290	STEEL FORCE SOUTH ASIA N.V	Trader	IS277, 513, 1079, 2002, 2062, 3502
20387	METAL ONE CORPORATION	Trader	IS277, 513, 1079, 2002, 2062, 3502
20449	SALZGITTER MANNESMANN	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502, ASTM A36
20501	TRADE ARBED EXPORT S.A.	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
20810	SAMSUNG CORPORATION	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
21133	PT GUNUNG RAJA PAKSI	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
21660	MEGASTEEL SDN BHD,	Manufacturer	IS277, 513, 1079, 2002, 2062, 3502
91047	INDUSTEEL PLATES INDIA DELHI PVT. L	Agent	IS277, 513, 1079, 2002, 2062, 3502
91051	R.S.JHAVERI & CO.	Agent	IS277, 513, 1079, 2002, 2062, 3502
91064	STEEL COMMODITIES CORPORATION	Agent	IS277, 513, 1079, 2002, 2062, 3502
91235	JBB INTERNATIONAL,	Agent	IS277, 513, 1079, 2002, 2062, 3502
91355	INTER TRADE,	Agent	IS277, 513, 1079, 2002, 2062, 3502

ANNEXURE "C"		APPROVED LIST OF VENDORS FOR PAINTS		
Mat Group	Material Grade	Vendor No	VENDOR NAME	Agent/ Manufacturer
PGPH1	HR.AI.Paint	10323	STAR PAINT & OIL INDUSTRIES	Manufacturer
		10242	SHALIMAR PAINTS LTD.	Manufacturer
PGPH1	HR.AI.Paint	10031	BERGER PAINTS INDIA LTD.,	Manufacturer
PGPH2	H.R.ALUMIN	10442	ASIAN PAINTS LTD	Manufacturer
		10323	STAR PAINT & OIL INDUSTRIES	Manufacturer
		10242	SHALIMAR PAINTS LTD.	Manufacturer
		10095	KANSAI NEROLAC PAINTS LIMITED,	Manufacturer
PGPH2		10031	BERGER PAINTS INDIA LTD.,	Manufacturer
PGPH3		10442	ASIAN PAINTS LTD	Manufacturer
		10324	BOMBAY PAINTS LTD	Manufacturer
		10323	STAR PAINT & OIL INDUSTRIES	Manufacturer
		10242	SHALIMAR PAINTS LTD.	Manufacturer
		10095	KANSAI NEROLAC PAINTS LIMITED,	Manufacturer
PGPH3	H.R.ALUMIN	10031	BERGER PAINTS INDIA LTD.,	Manufacturer
PGPTC	:PAINTS& T	10635	PASU MEENA PAINTS INDUSTRIES	Manufacturer
		10442	ASIAN PAINTS LTD	Sales Office
		10325	SRI MEENAAKSHI PAINT INDUSTRIES	Manufacturer
		10324	BOMBAY PAINTS LTD	Sales Office
		10308	WESTERN INDIA PAINTS COLOUR CO. (P)	Manufacturer
		10268	SUNDARAM PAINTS PVT LTD	Manufacturer
		10242	SHALIMAR PAINTS LTD.	Manufacturer
		10174	NOVAA PAINTS	Manufacturer
		10095	KANSAI NEROLAC PAINTS LIMITED,	Manufacturer
PGPTC	:PAINTS& T	10031	BERGER PAINTS INDIA LTD.,	Sales Office
PGPTE	EPOXY BAS	10865	SIGMAKALON INDIA PVT.LTD.,	Manufacturer
		10442	ASIAN PAINTS LTD	Sales Office
		10324	BOMBAY PAINTS LTD	Sales Office
		10242	SHALIMAR PAINTS LTD.	Manufacturer
		10031	BERGER PAINTS INDIA LTD.,	Sales Office
PGPTE	EPOXY BAS	10007	AKZO NOBEL COATINGS INDIA PVT. LTD	Manufacturer
PGPTF	EPOXY FIN	10865	SIGMAKALON INDIA PVT.LTD.,	Manufacturer
		10442	ASIAN PAINTS LTD	Sales Office
		10324	BOMBAY PAINTS LTD	Sales Office
		10242	SHALIMAR PAINTS LTD.	Manufacturer
		10056	CHEMGUARD COATINGS LIMITED,	Manufacturer
		10031	BERGER PAINTS INDIA LTD.,	Sales Office
PGPTF	EPOXY FIN	10007	AKZO NOBEL COATINGS INDIA PVT. LTD	Manufacturer
PGPTP	SPECIAL PR	10865	SIGMAKALON INDIA PVT.LTD.,	Manufacturer
		10442	ASIAN PAINTS LTD	Sales Office
		10324	BOMBAY PAINTS LTD	Sales Office
		10242	SHALIMAR PAINTS LTD.	Manufacturer
		10031	BERGER PAINTS INDIA LTD.,	Sales Office
PGPTP	SPECIAL PR	10007	AKZO NOBEL COATINGS INDIA PVT. LTD	Manufacturer
PGRPF	PSS:RUSTP	10835	INDIAN OIL CORPORATION LIMITED	Manufacturer
		10308	WESTERN INDIA PAINTS COLOUR CO. (P)	Manufacturer
		10268	SUNDARAM PAINTS PVT LTD	Manufacturer
PGRPF	RUST PREV	10192	PLASTIPEEL CHEMICALS & PLASTIC	Manufacturer

Industrial paints, primers, intermediate and finish paints shall be procured (and used) from the same supplier to accord

	ANNEXURE"R"	APPROVED LIST OF ELCTRODES AND VENDORS		
	SPECIFICATION	VENDOR NO	MANUFACTURING COMPANY	BRAND NAME
MIGW7	ER70S-6 CO2 WIRE	10785	ADOR WELDING LIMITED	AUTOMIG – 1
MIGW7	ER70S-6 CO2 WIRE	14791	ANAND ARC ELECTRODES PVT. LTD.,CHENNAI.	ANAND MIG 1
MIGW7	ER70S-6 CO2 WIRE	10081	ESAB INDIA LTD.,CHENNAI	ESAB MW1
MIGW7	ER70S-6 CO2 WIRE	16166	EVERSHINE WIRES	SHINE ARC-1
MIGW7	ER70S-6 CO2 WIRE	16661	KLINWELD WIRES PVT. LTD..MUMBAI.	KLINWELD.
MIGW7	ER70S-6 CO2 WIRE	15100	MANTEK WIRESS	MANTEK MIG
MIGW7	ER70S-6 CO2 WIRE	13906	MARUTI WELD LTD.	ER 70S-6
MIGW7	ER70S-6 CO2 WIRE	14340	NALLI ARC INDUSTRIE	NALLI ARC
MIGW7	ER70S-6 CO2 WIRE	16662	NATIONAL ENGINEERING ENTERPRISES, JAMSHEDPUR	CARBOMIG S6
MIGW7	ER70S-6 CO2 WIRE	15810	NOUVEAX INDUSTRIES (P) LTD,KANGAYAM	NOUVARC
MIGW7	ER70S-6 CO2 WIRE	13693	RASI ELECT.,CHENNAI	RASI CO2
MIGW7	ER70S-6 CO2 WIRE	14428	SHAKUNT ENTERPRISES PVT LTD,LUDHIANA.	SANWALKA.
MIGW7	ER70S-6 CO2 WIRE	16575	STANDARD WIRE PRODUCTS.	STAR
MIGW7	ER70S-6 CO2 WIRE	15085	VOLTARC ELECTRODE PVT. LTD.JIRUPATHI	AUTOFIL-6
MIGW7	ER70S-6 CO2 WIRE	14455	WIRE & WIRE PRODUCTS, CHENNAI	ESSARC
STRFL	SAW FLUX FOR STRUCTUR.	10785	ADOR WELDING LIMITED	AUTOMIG Gr. II
STRFL	-Do -	12184	LAKSHMI CHEMICALS INDS., TRICHY	LAXMI FLUX
STRFL	-Do -	13691	MANTEK WELDED FLUX CO	MANTEK- 22
STRFL	-Do -	14593	RMH CHEMICAL,TRICHY-15	RMH Autoweld Gr.I
STRFL	-Do -	14309	S.CHEM&ALLIED PRODUCTS PRIVATE. LTD	SURE FLUX GP
STRFL	-Do -	11701	SUPER ELEC INDS, TRICHY	SUPER S41
STRFL	-Do -	11701	SUPERWELD PRODUCTS, PULIVALAM	SWP40T
STRFL	-Do -	15099	THERMIT ALLOYS LTD., SHIMOGA	CONWELD - RM
STRFL	-Do -	15810	NOUVARC INDUSTRIES (P) LTD. KANGAYAM	NOUVOFLUX
STRFL	-Do -	13211	D&H WELDING ELECTRODES (INDIA) LTD.	SUPERMELT II
WCC01	E6013	10785	ADOR WELDING LIMITED	METALBOND
WCC01	E6013	14429	ALPHA FLUX AND ELECTRODES,THURAIYUR.	WELDER-G

WCC01	E6013	13763	CLASSIC ELECTRODES (I) PVT LTD. KOLKATTA	CLASSIC 6013 PLUS
WCC01	E6013	10774	D&H SECHERON ELECTRODES PVT LTD.	NORMA
WCC01	E6013	13211	D&H WELDING ELECTRODES (INDIA) LTD.	STANDARD
WCC01	E6013	15084	DWEKAM ELECTRODES LTD.	DK13
WCC01	E6013	10081	ESAB INDIA LTD	ESAB FERRO SPEED PLUS
WCC01	E6013	11881	FUSION ENGG. PRODUCT LTD.	ELECTRA-6
WCC01	E6013	13690	GEE LTD.,THANE	GEECON PINK
WCC01	E6013	11227	HONAVAR ELECTRODES, CHENNAI	REGULAR-S
WCC01	E6013	11378	MAI LAM INDIA LTD	MAILARC-13R
WCC01	E6013	11380	MALU ELECTRODES PVT.LIMITED	MANGALAM E6013
WCC01	E6013	14040	MANTEK ELECTRODES PRIVATE LTD.	MANTEK GP-13
WCC01	E6013	15083	MARUTHI ELECTRODES (P) LTD	MARUTHI 6013 X

	ANNEXURE"R"	APPROVED LIST OF ELCTRODES AND VENDORS		
	SPECIFICATION	VENDOR NO	MANUFACTURING COMPANY	BRAND NAME
WCC01	E6013	13906	MARUTI WELD LIMITED. NEW DELHI	MARUTI 44
WCC01	E6013	11420	MODI ARC ELECTRODES CO.	STEELON STD
WCC01	E6013	15088	NIVETHA ELECTRODES. TIRUCHY-7	MADAL ARC
WCC01	E6013	13693	RASI ELECT.,CHENNAI	RASIE6013
WCC01	E6013	13911	ROYAL ARC ELECTRODES PVT. LTD	ROYAL S
WCC01	E6013	15086	SRI RENGHA ELECTRODES (P) LTD	SUNSHINE E-6013
WCC01	E6013	15080	SUNCRAFT ELECTRODES PVT.LTD. TRICHY	SUNCRAFT E6013
WCC01	E6013	15081	TRICHY SRI JEEVA ELECTRODES	SUNLINE-27
WCC01	E6013	15087	V.N.C. ELECTRODES . KARUR	BEST ARC MS11
WCC01	E6013	15085	VOLTARC ELECTRODE/TIRUPATHI	SPEED ARC
WCC01	E6013	15082	ORION ELECTRODES MANUFACTURING CO.	JACKSON 5
WCC01	E6013	14575	WELD ALLOY PRODUCTS,UP	WA-6013-S
WCC05	E6013	16548	WELD EXCEL INDIA LTD	EXCEL-13S.
WCC05	E6013	15090	RAJ KESARI ELECTRODES PRIVATE LTD	RAJCORD-13S
WCC05	E6013	15102	SOLARC WELD RODS	VATSARC19 PLUS
WCC02	E6013 (ATTEST)	10774	D&H SECHERON ELECTRODES PVT LTD.	MEDIO
WCC02	E6013 (ATTEST)	10785	ADOR WELDING LIMITED	SUPABASE
WCC02	E6013 (ATTEST)	10081	ESAB INDIA LTD	ESAB VORDIAN
WCC02	E6013 (ATTEST)	11227	HONAVAR ELECTRODES LTD	REGULAR-SS
WCC02	E6013 (ATTEST)	11420	MODI ARC ELECTRODES CO.	STEELON ULTRA
WCC04	E7016	10774	D&H SECHERON ELECTRODES PVT LTD.	INDOTHERME
WCC04	E7016	10081	ESAB INDIA LTD	ESAB-56
WCC05	E7018	10785	ADOR WELDING LIMITED	SUPABASE 7018
WCC05	E7018	14791	ANAND ARC ELECTRODES PVT LTD., THANE	ANAND THERME
WCC05	E7018	10036	BHARAT HEAVY ELECTRICALS LTD	BHEL-7018

WCC05	E7018	10774	D&H SECHERON ELECTRODES PVT LTD.	SUPRA THERME
WCC05	E7018	13211	D&H WELDING ELECTRODES(I) LTD.INDORE	Super-LH
WCC05	E7018	15084	DWEKAM,CHENNAI	DK-18
WCC05	E7018	10081	ESAB INDIA LTD	ESAB-36H
WCC05	E7018	13690	GEE LIMITED	GRICON GREEN
WCC05	E7018	11227	HONAVAR ELECTRODES LTD	ULTIMATE-18
WCC05	E7018	15091	MAGNA ENGG PROD. P LTD,VIJAYAWADA	MAGNA-8
WCC05	E7018	11378	MAILAM INDIA, PONDICHERRY	MAIL ARC-18
WCC05	E7018	14040	MANTEK ELECTRODS PVT. LTD., TRICHY	MANTEK LH-18.
WCC05	E7018	15083	MARUTHI ELECTRODES (P) LTD	MARUTHI-7018
WCC05	E7018	13906	MARUTI WELD LIMITED	ULTRA-7018
WCC05	E7018	11420	MODI ARC ELECTRODES CO.	MODI-7018
WCC05	E7018	15090	RAJ KESARI ELECTRODES PRIVATE LTD	SUPERLET-18

	ANNEXURE"R"	APPROVED LIST OF ELCTRODES AND VENDORS		
	SPECIFICATION	VENDOR NO	MANUFACTURING COMPANY	BRAND NAME
WCC05	E7018	13693	RASI ELECT.,CHENNAI	RASI E7018 LH
WCC05	E7018	13911	ROYAL ARC ELECTRODES PVT LTD., THANE	ROYAL THERME
WCC05	E7018	15102	SOLARC WELD RODS	SUPRADYNE
WCC05	E7018	15833	THIRUMALA ELECTRODES Co., TRICHY.	SEVEN ARC-18
WCC05	E7018	15085	VOLTARC ELECTRODE,TIRUPATHI	SUPERARC
WCC05	E7018	14575	WELD ALLOY PRODUCTS,UP	WA7018
WCC05	E7018	16548	WELD EXCEL INDIA LTD	EXCEL-18.
WCC05	E7018	15089	WELDCRAFT PRIVATE LIMITED	MAXIDURE-7018
WCC05	E7018	15089	WELDCRAFT PRIVATE LIMITED	
WCC06	E7018-1	10785	ADOR WELDING LIMITED	TENALLOY
WCC06	E7018-1	10774	D&H SECHERON ELECTRODES PVT LTD.	SUPRA THERME (SPL)
WCC06	E7018-1	11227	HONAVAR ELECTRODES LTD	ULTIMATE-18 SPL

	Bharat Heavy Electricals Limited (A Government of India Undertaking)	☎: 04172-284030 04172-284158
	Boiler Auxiliaries Plant, Ranipet – 632 406	
AN ISO 9000 COMPANY	OUTSOURCING Department	Email: dhinakhar@bhel.in ssvasan@bhel.in

ANNEXURE-T

GENERAL CONDITIONS OF CONTRACT

DEFINITIONS

Throughout these conditions and in the specifications "THE CONTRACTEE" means the Bharat Heavy Electricals Limited, acting through the Addl. General Manager/MSA, Ranipet – 632 406, unless the context otherwise provides "THE CONTRACTOR" means the person, firm or company with whom the order for Structural work is placed and shall be deemed to include the Contractor's successors (approved by the Contractee) representatives, heirs, executors and administrators as the case may be unless excluded by the terms of the Contract. "DRAWINGS" means the drawings exhibited or provided for the guidance of the Contractor.

II EXECUTION

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

III FORCE MAJEURE

If any time during the continuance of this Contract the performance in whole or part by either part of any obligation under this contract shall be prevented or delayed by reasons of war, hostilities, acts of public enemy, civil, commotions, sabotage, fires, floods, explosions, epidemic quarantine restrictions or acts of God (herein referred to as events), then provided the notice of the happenings of any such events is given by either party to other party within 21 (Twenty one) days from the date of occurrence thereof, either party shall by reason of such event not be entitled to terminate this contract, nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and delivery under the contract shall be resumed as soon as

Practicable after such event has come to an end or ceased to exist and the decision of the Contractee as to whether the deliveries have been so resumed or not shall be final and conclusive. 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 shall be granted for periods considered reasonable by the Contractee subject to prompt notification by the Contractor to the Contractee of the particulars of the events and supply to the Contractee if required of any supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining work schedules.

IV TERMINATION OF CONTRACT

If as a result of difficulty in procurement of materials or due to force majeure reasons or any other reasons whatsoever the contractor is unable to keep the delivery schedule of the Contractee, the Contractee to the extent considered necessary may grant extension of time. Should there be delay in work, beyond the extended date of delivery, it shall be open to the Contractee to terminate the contract in part or full and make other arrangements for executing work at the cost and risk of the Contractor.

V INTERPRETATION

The Contractee shall decide any dispute or difference of opinion in respect of the interpretation, effect or application of this particular condition of the Contract or the amount recoverable hereunder from the contractor and the decision shall be final and conclusive.

	Bharat Heavy Electricals Limited (A Government of India Undertaking)	☎: 04172-284030 04172-284158
	Boiler Auxiliaries Plant, Ranipet – 632 406	
AN ISO 9000 COMPANY	OUTSOURCING Department	Email: dhinakhar@bhel.in ssvasan@bhel.in

VI BOOK EXAMINATION CLAUSE:

The Contractor shall whenever required produce or cause to be produced for examination by any Officer of the Contractee authorized in that behalf, any cost or other account book or account voucher, receipt letter, memorandum, paper or writing or any copy extract from any such document and also furnish information and returns verified in such a manner as may be required in any way relating to the execution of this contract or relevant for verifying or ascertaining the cost of execution of this contract (the decision of such officer of the Contractee on this question or relevancy of any documents, information or return being final and binding on the Parties). The obligation imposed by this clause is without prejudice to the obligation of the contract / purchase order or under any status rules or orders binding the contractor. The contractor shall if the authorized officer or the Contractee so required (whether before or after the prices have been finally fixed), afford facilities to the officer of the Contractee concerned to visit the contractors works for the purpose of examining the process of manufacture and estimate or ascertaining the cost for production of the articles, if any portion of the work be carried out by a sub contractor of any subsidiary of an allied firm or company, the authorized officer of the Contractee shall have power to secure the books of such sub contractor, or any subsidiary or allied firm or company shall be open to his inspection.

VII SET-OFF CLAUSES

Payment shall be subject to the deduction of any amount for which the Contractor is liable under this Contract, or any contract in respect of which Bharat Heavy Electricals Limited is the Contractee.

VIII LAWS GOVERNING THE CONTRACT

The Laws of Government of India in force shall govern the Contract. Irrespective of the place of the execution of the Contract place, of payment under the contract, the contract shall be deemed to have been made at the place at which the acceptance of the tender has been issued.

IX JURISDICTION OF THE COURT

The Courts of the place from where the acceptance of the tender is issued shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

X THE GLOBAL COMPACT Global Compact is a signature initiative of United Nations Secretary General Kofi Annan and Four United Nation Agencies:

- Office of the High Commissioner for Human Rights
- International Labour Organisation
- United Nations Environment Programme
- United Nations Development Programme

This is a broad based initiative and engages:

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

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

- Support and respect Human Rights within our spheres of influence.
- Make sure you are not complicit in Human Rights abuses.
- Make sure you are not employing Forced or compulsory labour.
- Refrain from employing Child Labour
- Eliminate discrimination in your hiring and firing policies.
- Support a precautionary approach to Environmental challenges.
- Undertake initiatives to promote greater environmental responsibility.
- Encourage development and diffusion of environmentally friendly Technologies

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

ANNEUXRE - S

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT AND THE EXPIRY DATE OF BG MUST BE AFTER 60 DAYS FROM THE DATE OF COMPLETION OF WARRANTY PERIOD)

PERFORMANCE BANK GUARANTEE

In accordance of M/s. Bharat Heavy Electricals Limited (A Government of India undertaking, a company incorporated under the Companies Act 1956 having its Registered Office at "BHEL House", SIRI Fort, New Delhi 110 049) through its High Pressure Boiler Plant Division located at Tiruverumbur, Tiruchirapalli- 620 014 (hereinafter called 'the Company') having entered into a contract withhereinafter called 'the said contractor' which term includes 'suppliers' for the purpose of this Bond and under the terms and conditions of the contract No..... Dt Between BHEL, Ranipet and as per the contract, the contractor / supplier is to furnish a performance Bank guarantee for Rs. for the due performance of the equipment to be supplied under the above referred contract and for the fulfillment of all the terms and conditions of the contract, We(indicate the name of the bank) (herein after referred to as the bank) at the request of (Contractor(s)) do here by undertake to pay the company an amount not exceeding Rs.....against any loss or damage caused to or suffered or would be caused to or suffered by the company by reason of any breach by the said contractor (s) of any of the terms and conditions contained in the said agreement.

2. We(indicate the name of the bank with full address), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by the reason of the contractor(s) 'failure to perform' the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____.

3. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We.....(indicate the name of Bank), further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till_____Office / Department/ Division of the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. (I) Unless a demand or claim under this guarantee is made on us in writing on or before the _____ we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.

(ii) For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.

6. We(indicate the name of Bank), further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would, but for this provision, have effect of not so relieving us.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

7. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.

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

9. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authority granted to him/them by the guarantor

10. We(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

In witness whereof we....., (indicate the name of Bank) have hereunto setout Bank Seal the _____ day _____ month 20

LIST OF CONSORTIUM BANKS

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