



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 78 30

Fax : +91 431 252 00 31

Email : saranyac@bheltry.co.in

Web : www.bhel.com

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2731700002	14.02.2017	20.03.2017

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	Tube to Tube Sheet Orbital TIG m/c as per the technical specification & commercial conditions enclosed (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	01 No.

Important points to be taken care during submission of offer

1. The rate of EMD for this Tender will be (INR) : 1,50,000/-
2. The Point wise reply to our Technical Specification and Commercial Compliance Form to be filled in and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM/CE/GENL/001-EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under above Enquiry reference.

Tenders should reach us before 14:00 hours on the due date

Tenders will be opened at 14:30 hours on the due date

Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

C. SARANYA
Senior Engineer

Sr. Engineer / Capital Equipment
MM / Capital Equipment
BHEL Tiruchirappalli 620 014

PART A : QUALIFYING CRITERIA FOR TUBE TO TUBESHEET WELDING MACHINE**DESCRIPTION OF ITEM: ORBITAL TUBE TO TUBE SHEET WELDING MACHINE****SECTION – I :**

The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
1	Only those vendors (OEMs), who have supplied and commissioned at least 2 numbers of Orbital Tube to Tube sheet welding machine of specification similar to the requirement specified in PART B of this specification, in the past five years (from the date of opening of Tender) and such machine is presently working satisfactorily for more than one year after commissioning (from the date of opening of Tender) should quote. However, if such machine had already been supplied to BHEL (bidder to give PO details), then that machine should be presently working satisfactorily for more than six months after its commissioning and acceptance (from the date of opening of Tender).	Bidder to
	The vendor should submit following information where similar machine has been supplied for qualification of their offer.	
1.1	Name and postal address of the customer or company where similar machine is installed.	
1.2	Name and designation of the contact person of the customer.	
1.3	Phone, FAX no and email address of the contact person of the customer.	
1.4	Month and Year of commissioning of the machine.	
1.5	Application for which the machine is supplied	
1.6	Along with the Technical offer, the Vendor should submit one Performance certificate from the customer for the satisfactory performance of the machine supplied to them. For obtaining the Performance certificate, a suggestive format is provided in SECTION – IV .	
1.7	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
2.0	DELIVERY - The bidder shall quote the best possible delivery. However the delivery shall not exceed 5 months with an additional grace period of 1 month. The additional grace period will attract a penalty which is explained in the commercial terms of the enquiry. The delivery period shall be reckoned from date of purchase order to despatch from the vendor works.	

PART A : QUALIFYING CRITERIA FOR TUBE TO TUBESHEET WELDING MACHINE**SECTION – I I**

The BIDDER / VENDOR is requested to provide the following information:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
3.0	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where Orbital Tube to Tube sheet welding machine have been supplied in the past.	
4.0	Details of Orbital Tube to Tube sheet welding machine supplied to other BHEL units, if any. (Year of commissioning, Spindle size of machine, Spindle motor power)	
5.0	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centers in South India.	
6.0	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

PART A : QUALIFYING CRITERIA FOR TUBE TO TUBESHEET WELDING MACHINE**SECTION – III**

The BIDDER to note:

S. No.	PARTICULARS	VENDOR'S RESPONSE
7.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] & commercial offer 2. Price Bid.	
8.0	The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder , against each clause. A just 'CONFIRMED' or 'COMPLIED' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement may lead to disqualification of the Technical Offer.	
9.0	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
10.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

PART A : QUALIFYING CRITERIA FOR TUBE TO TUBESHEET WELDING MACHINE**SECTION – IV**

The performance certificate should be produced **on Customer's Letter Head.**

PERFORMANCE CERTIFICATE

1.	Supplier of the machine	
2.	Make & Model of the M/C	
3.	Month & Year of Commissioning	
4.	Application for which M/C is used	
5	a) Tube Sheet Hole Size b) Size of Tube ID c) Material of Tube Sheet & Tube d) With Torch Tilting Arrangement e) With AVC f) With Pulsing g) Sector programming h) Tube Sheet Position	Yes / No Yes / No Yes / No Yes / No Vertical / Horizontal
6. Performance of the Machine		Satisfactory / Good / Average / Not Satisfactory
7. Any Other remarks		
(Strike off whichever is not applicable)		
Date: Signature & Seal of the Authority Issuing the Performance Certificate		

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
1.0.0	PURPOSE & APPLICATION		
1.1.0	Job Nature: a. The proposed welding machine shall be suitable for welding tube to tubesheet joints in Heat Exchangers as shown in Annexure-1 & 1A b. The tube to tubesheet welding shall be done by pulsed TIG welding process - Down hand (1G) position - first fusion pass and second pass with filler wire, by the use of a semi-automatic welding gun. c. Filler Wire Diameter is 0.8 mm.		BIDDER is expected to give technical write up on welding machine design, construction and operational features to bring out the capability of the proposed equipment, to meet the BHEL specification requirements
1.2.0	JOB DETAILS:	ANNEXURE I & 1A	
	Tube OD x 't' (mm)	14.0 x 1.5	Bidder to confirm
	Tolerance on 't'	±10%	
	Tube Material	Titanium	
	Tubesheet material	Titanium	
	Tube Hole Diameter (mm)	14.18 -0/+0.05	
	WELD JOINT DETAILS :		
	a. Style of Edge Preparation	As given in ANNEXURE 1 & 1A	Bidder to confirm
	b. Tube End Condition	Edge prepared by special tool having form profile.	
	c. Production Process	Fusion pass if required and then Automatic single/ multi pass orbital welding. Welding head is to be suitable for both Vertical and Horizontal position during welding.	
	d. Weldment Testing	Radiography / LPI, Helium & Hydro tests.	
	e. Weld Quality Appraisal	As per ASME Section I, V. VIII Division 1 & 2 for Radiography Test and 100 % RT.	
2.0	SCOPE OF SUPPLY: Design, Manufacture, Supply, Installation and Commissioning of the following mentioned items as per the Speciation and details provided in subsequent clauses:		
	Description of Item	Qty	Bidder's offer
2.1.0	Orbital Tube to Tube sheet welding machine Power Source as per the specifications described in the Sub Clauses of <u>3.0.0, 5.0.0 & 6.0.0</u>	1 No.	
2.2.0	Orbital Tube to Tube sheet Welding Head as per the specifications described in the Sub Clauses of <u>4.0.0, 5.0.0 & 6.0.0</u>	1 No.	

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
2.3.0	Trolley with caster wheels with Double bottle Holder to carry the power source with bottles	1 No.	
2.4.0	Suitable Spring Balancer to mount the Welding head in the required position	1 No.	
2.5.0	Tool Kit with essential tools for the above items	1 Set	Bidder to give detailed break up
2.6.0	Additional Accessories as specified below:		
2.6.1	Centering Shaft & centering mandrel suitable for weld joints as given in Annexure 1 & 1A	4 Sets	Bidder to give detailed break up
2.6.2	Extra Gas protection casing	2 No.	
2.7.0	Spares shall be supplied as per Cl. 2.7.1 to 2.7.23: Vendor to confirm that complete list of spares for machine and accessories, along with item part no / specification / type / model, and name & address of the spare supplier shall be furnished along with documentation to be supplied with the machine.		
2.7.1	Water Cooling Pump with Motor	1 No.	
2.7.2	Wire feed Roller	4 No.	
2.7.3	Wire feed roller bearing (all types of bearings)	2 Sets	Bidder to give detailed break up
2.7.4	Weld head rotation drive gear and Pinion	1 Set	Bidder to give detailed break up
2.7.5	Solenoid valves (1 No. in each type)	1 Set	Bidder to give detailed break up
2.7.6	Electrode Holder for varying angles (as applicable)	1 Set	Bidder to give detailed break up
2.7.7	PCBs in Power source (1 No. in each PCB)	1 set	Bidder to give detailed break up
2.7.8	Wire feed Motor	1 No.	
2.7.9	Motor for AVC	1 No.	
2.7.10	Set of interconnecting cables with hose from welding head to Power source	1 No.	
2.7.11	Remote Control Unit	1 No.	
2.7.12	Proximity switch -1 No. in each type (if applicable)	1 Set	Bidder to give detailed break up
2.7.13	Micro limit switch - 1 No. in each type (if applicable)	1 Set	Bidder to give detailed break up
2.7.14	Motor for Weld head Rotation	1 No.	
2.7.15	Control cable for Remote control Unit	1 No.	
2.7.16	Wire Guide Tube	2 No.	
2.7.17	Wire Nozzle Dia 0.8 mm	3 No.	
2.7.18	Paper Roll for Printer (as per MOQ)	1 Set	
2.7.19	Tilted AVC Kit	1 No.	
2.7.20	Chuck for Tungsten Electrode holder	3 No.	
2.7.21	Diffuser / Gas lens for Tungsten Electrode holder	2 No.	
2.7.22	Wire feed Hose	4 Mtr	

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
2.7.23	Other essential spares / consumables (if any) for two years trouble free operation & maintenance	1 Set	Bidder to give detailed break up
2.8.0	Complete set of Documentation as described in the Sub Clauses of 10.0.0	1 Set	
3.0.0	POWER SOURCE SPECIFICATIONS:		
3.1.0	Type	Microprocessor controlled programmable (inverter based) pulsed GTAW Welding Power source-DC straight polarity.	Bidder to specify
3.2.0	Make	Polysoude / ESAB / Lincoln / Miller / ITW/ Magnatech or any other reputed make which shall be acceptable to BHEL.	Bidder to confirm
3.3.0	Output Current Rating	200 Amps. At 100 % duty cycle (Minimum)	Bidder to confirm
3.4.0	Operating Current	3 to 200 Amps with stepless variation	Bidder to confirm
3.5.0	Open Circuit Voltage	60 Volts(Min.)	Bidder to confirm
3.6.0	Switching Frequency		Bidder to specify
3.7.0	Memory	99 Welding Programs (minimum)	Bidder to specify
3.8.0	TIG Arc Ignition	By means of an in-built high frequency unit	Bidder to confirm
3.9.0	Power Input	415 V +/- 10% ,3 Ø 3 wire system, 50 Hz	
3.10.0	Current Accuracy	±1% of setting	Bidder to confirm
3.11.0	Welding Voltage Range	5 to 30 V DC	Bidder to confirm
3.12.0	Gas Pre-flow / Gas Post-flow Time& Feature	0 to 99 sec. Gas pre-flow, post-flow in the chamber shall be controlled by program.	Bidder to confirm
3.13.0	Current Pulse Frequency	0.05 to 50 pulses / sec	Bidder to confirm
3.14.0	Pulse Current Time	0.01 to 10 sec	Bidder to confirm
3.15.0	Background Current Time	0.01 to 10 sec	Bidder to confirm
3.16.0	Current Up-slope / Down-slope Time required during welding	0 to 45 secs	Bidder to confirm
3.17.0	Time setting for each current level required during welding	0 to 45 secs	Bidder to confirm
3.18.0	Rotation Start / Stop Delay required during welding	0 to 45 secs	Bidder to confirm
3.19.0	Wire Feed Start / Stop Delay required during welding	0 to 45 secs	Bidder to confirm
3.20.0	Torch Rotation Speed & variation		Bidder to specify
3.21.0	Filler Wire Feed & Speed		Bidder to specify

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
3.22.0	Filler Wire Feed & Speed variation	$\pm 1\%$ of setting	Bidder to confirm
3.23.0	Torch Oscillation Speed		Bidder to specify
3.24.0	Oscillation Dwell Time at both ends (independently adjustable)		Bidder to specify
3.25.0	AVC Function	$\pm 1\%$ of setting	Bidder to confirm
3.26.0	Programming increments for welding current & time parameters	0.1 amps / 0.1 sec	Bidder to confirm
3.27.0	Ambient Condition	Temperature range 0°C to 45° C	
		Humidity 85% (maximum)	
		Both not occurring simultaneously	
3.28.0	Auto-Tripping	Tripping facility by means of an automatic circuit breaker, in case of electrical short circuit, overloading, over-heating, single phase protection.	Bidder to confirm
3.29.0	POWER SOURCE FEATURES:		
3.29.1	Display Unit	A digital display unit to indicate all the working parameters (viz., voltage, current, pulsing time, wire feed, speed, etc.)	Bidder to confirm
3.29.2	a. Gas Flow Setting	Gas flow meter with gas solenoid operating push button switch for presetting gas flow rate, provided on the Front Panel	Bidder to confirm
	b. Gas hose with end fittings — Gas cylinder to power source	Length to suit long travel on cable festoon	Bidder to confirm
3.29.3	Water Cooling Unit for Torch	Built-in and of suitable capacity for the weld head and torch	Bidder to confirm
3.29.4	Arc Sensing	Means & modes for arc initiation and sensing	Bidder to specify
3.29.5	Arc Voltage Control function	$\pm 1\%$ variation	Bidder to confirm
3.30.0	WELD PROGRAMMING UNIT:		

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
3.30.1	Type	A microprocessor based weld program control unit with digital display unit, key-board, etc., and provided with the option of remote function control through a Remote Operator's Pendant.	
3.30.2	Programming Level	A multi-level programming capability.	Bidder to confirm
3.30.3	Weld Report Generation	Weld Programming Unit to facilitate easy output generation and on-line plotting of wave form through the external Chart Recorder.	Bidder to confirm
3.30.4	Program Processing & Integration	Facility for integrating an external PC (Computer) to the Weld Programming Unit, through an Off-Line Programming-software to facilitate editing and storing of weld programs.	Bidder to confirm
3.30.5	Auto-diagnostic System	Built-in fault check for system status	Bidder to confirm
3.30.6	Weld programming	Parameters like pre-gas / post-flow, start / end current, up and down slope, etc. have to be set individually for each program	
3.30.7	Sectoral Programming	Possibility for setting welding current, voltage, rotation speed, wire speed, pulsing time, etc. for each sector. (one weld cycle has to be split into a minimum of 6 sectors).	Bidder to confirm
3.30.8	Dry Run	Before welding, a test run has to be performed by Using the simulation operation mode	Bidder to confirm
3.30.9	Safety Lock	Key lockable switch-Programming/operation/lock	Bidder to confirm
3.30.10	Data transfer	USB port for Data Transfer & 2 Nos. of 2 GB pen drive.	Bidder to confirm
3.31.0	REMOTE CONTROL UNIT:		

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
3.31.1	Type	Compact, lightweight & hand-held remote function unit connected to the power source / programming unit with 15 m long control cable with protective sheathing & quick-fix end connectors.	
3.31.2	Display Unit	Liquid Crystal Display Screen	
3.31.3	Process / Selection Control	Push-buttons to select/control welding program	Bidder to confirm
		weld cycle start and weld cycle stop	
		emergency stop	
		manual movement control for torch position	
		manual control for wire feeder	
		manual control of start of down slope	
		gas and water flow control	
		real time modification of welding parameters	
3.31.4	Operating Voltage	The remote control unit shall function on a low voltage (less than 110 volts).	Bidder to confirm
4.0.0	TUBE to TUBESHEET WELDING HEAD:		
4.1.0	Type	Tube to Tubesheet Welding Head, with axial (minimum three) & angular adjustment to the wire feed nozzle, Angular / tilted AVC and rotating wire feeder.	Bidder to confirm
4.2.0	Application -Joint Design	The Welding Head design shall be suitable for welding the tube to tubesheet joints with Extended, Flush and Recessed tube ends.	Bidder to confirm
4.3.0	Weld Orientation	All (Vertical & Horizontal Gravity Positions)	Bidder to confirm
4.4.0	Tubesheet Hole Pitch	Pattern : Triangular (refer Annexure 1 & 1A)	Bidder to confirm
4.5.0	Torch/Wire Nozzle Adjustment	Angular & 3 - Axis Adjustment	Bidder to confirm
4.6.0	Wire feed angle & adjustment distances along the three axis.		Bidder to specify
4.7.0	Electrode Angle adjustments		Bidder to specify
4.8.0	Head Rotation speed	0.1 to 10.0 rpm (approx)	Bidder to specify

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
4.9.0	Wire Feed Speed		Bidder to specify
4.10.0	Wire Spool Size		Bidder to specify
4.11.0	Current Rating	200 Amps. Continuous Duty	Bidder to confirm
4.12.0	Tilted / Angular AVC Control	To be provided with Arc Voltage Control	Bidder to confirm
4.13.0	AVC Stroke	10 mm (minimum)	Bidder to confirm
4.14.0	Torch to Work-piece Distance	Provision for adjusting distance between torch and work-piece during welding	Bidder to confirm
4.15.0	Wire Spool & Feeder Location	Wire Spool & Wire Feeder shall be integral with the welding head.	Bidder to specify
4.16.0	Cable Length & Type		Bidder to specify
4.17.0	Tungsten Electrode	Tungsten Electrode 1.6/ 2.0/2.4 mm dia.	
4.18.0	Wire Size	0.8 mm Titanium	Bidder to confirm & give details.
4.19.0	Application	To position the Tube-to-Tubesheet Welding Head, concentric to the tube-to-tubesheet joint to be welded in Vertical/Horizontal position	Bidder to confirm
4.20.0	Locator/Collet Assembly	To form part of the supply and shall be suitable for Tube Size : 14.0 mm (OD) x 1.5 mm (t) with 10% tolerance on wall thickness & weld protrusion as indicated in Annexure drawings.	Bidder to confirm
5.0	ELECTRICAL & ELECTRONICS SYSTEM:		
5.1.0	415V $\pm$ 10%, 50HZ $\pm$ 3 Hz, 3 Phase AC [3 wire system without neutral] power supply will be provided by BHEL at a single point near the machine, as per layout recommended by Vendor.		
5.2.0	Tropicalization: All electrical / electronic equipment shall be tropicalized.		Bidder to confirm
5.3.0	All electrical & electronic control cabinets & panels should be dust and vermin proof		Bidder to confirm
5.4.0	All electrical components in the cabinets should be mounted on DIN Rail		Bidder to confirm
5.5.0	Control circuit voltage shall not exceed 110 V.		Bidder to confirm
5.6.0	All Electric enclosures shall have IP 54 protection		Bidder to confirm
5.7.0	All electrical and electronic panels including operator's panel should be provided with fluorescent lamps for sufficient illumination and power receptacles of 220 V, 5/15 Amp AC. All adapters /receptacles should have compatibility with Indian equivalents.		Bidder to confirm

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
5.8.0	Drive motors		Bidder to specify& provide details.
5.9.0	All the cable drag chain / cable trays required for laying of cables should be included in the offer.		Bidder to confirm
5.10.0	Vendor should ensure the proper earthing for the machine and its peripherals.		Bidder to confirm
5.11.0	Fault diagnostics and remedies.		Bidder to confirm
5.12.0	All solenoid valves should have light indicating solenoids.		Bidder to confirm
6.0	IN-BUILT SAFETY ARRANGEMENTS:		
6.1.0	Following safety features in addition to other standard safety features should be provided on the machine:		Bidder to confirm
6.2.0	A detailed list of all alarms / indications provided on machine should be submitted by the Vendor.		Bidder to confirm
6.3.0	All the pipes, cables etc. on the machine should be well supported and protected. These should not create any hindrance to machine operator's movement for effective use of machine.		Bidder to confirm
6.4.0	Machine should have adequate and reliable safety interlocks / devices to avoid damage to the machine, work piece and the operator due to the malfunctioning or mistakes.		Bidder to confirm
6.5.0	Emergency Switches at suitable locations as per International Norms should be provided.		Bidder to confirm
7.0.0	MACHINE LEVELLING & ANCHORING SYSTEM: Complete anchoring system including foundation bolts, anchoring materials, fixators, levelling shoes etc, if any, should be supplied.		Bidder to confirm
8.0.0	TOOLS FOR ERECTION, OPERATION & MAINTENANCE: The Vendor shall bring special tools and equipment required for erection of the machine. Necessary tools like Spanners, Keys etc. for operation and maintenance of the machine should be supplied. List of such tools should be submitted with offer		Bidder to confirm
9.0.0	MACHINE SPARES: All types of spares for total machine and accessories shall be available for at least ten years after supply of the machine. If machine or control is likely to become obsolete in this period, the vendor should inform BHEL sufficiently in advance and provide drawings of parts / details of spares & suppliers to enable BHEL to procure these in advance, if required		Bidder to confirm
10.0.0	PRE-DESPATCH INSPECTION OF MACHINE:		
10.1.0	The machine along with spares, accessories and necessary documents are to be offered for Inspection by BHEL at Suppliers work. Necessary demonstrations for the functions of the machine and weld trials (minimum of 10 joints) shall be organised at the supplier's works. All materials and consumables required shall be		Bidder to provide details

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
	arranged by the supplier. Bidder has to clearly provide the details of demonstrations, materials, trials and tests being planned to be performed.		
10.2.0	Airfare, boarding & lodging for the BHEL Officials shall be borne by BHEL.		Bidder to Note.
11.0.0	MACHINE DOCUMENTATION:		
11.1.0	O&M Manuals: a. THREE Copies of the Operation & Maintenance Manual (in English Language) to be given in Hard Bound Paper Copies with ONE copy in pen drive. b. One Hard Copy of O & M Manual as per clause 12.2.0 shall be submitted at the time of INSPECTION of the Orbital Welding Machine by BHEL Officials, at the Supplier's Works. to check the sufficiency of documents provided. If any additional details are required, it should be submitted.		Vendor to confirm
11.2.0	Documents and Technical Details		Vendor to confirm
	a. Write-up on the Operation and maintenance of the machine.		
	b. Complete specification of the machine.		
	c. Preventive maintenance Check list		
	d. GA Drawing of the tube to tubesheet welding machine.		
	e. GA Drawing of Individual Sub-Systems and Mechanisms with major dimensions and weights.		
	f. Sub-Assembly Drawings with cross sectional details and major/critical dimensions for all sub systems maintenance purpose.		
	g. Component drawings with complete dimension & material specification for all wearing components. List of wearing components to be submitted during drawing approval.		
	h. Electrical Wiring Drawings — Power & Control Circuits with BOM		
	i. Complete Printed Circuit Board Schematics indicating check points (Test Points) for Electronic Controls in CD.		
	j. Alarm Log, Error Code, Error Messages & Remedies to be provided.		
	k. Specifications/Ratings and catalogues of All Bought-Out Items.		
	l. Warranty / Guarantee Card for all Bought-Out Items.		
	m. Machine related PC Details — Machine Operating Softwares, Parameters Selection Software, File Handling, and Display Recording. CD Read and Write unit, Serial and USB Ports to be ensured.		
	n. Total weight of the Machine & Sub-Systems.		
12.0.0	TRAINING:		Bidder to confirm

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

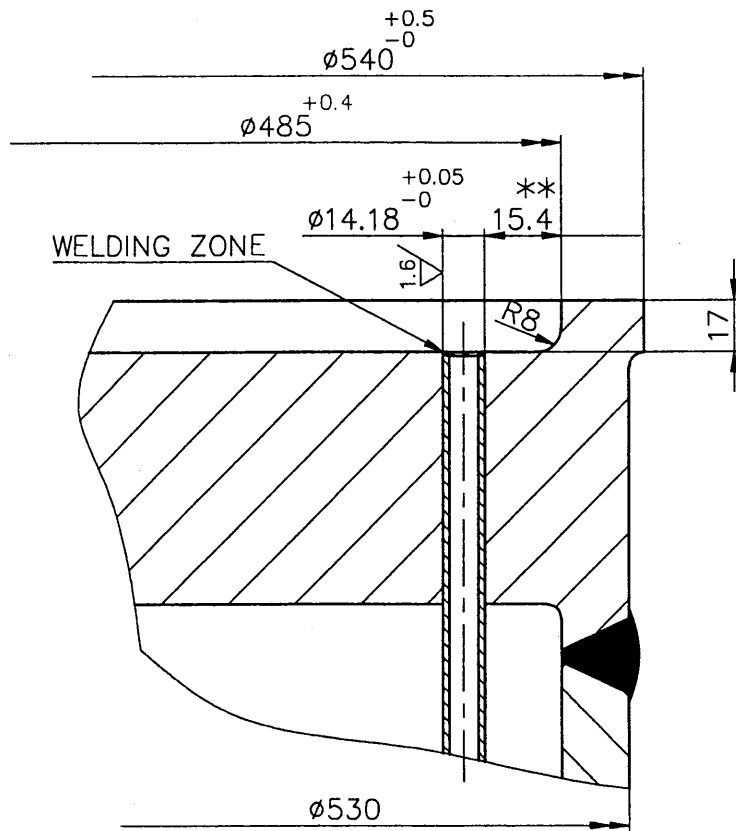
S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
12.1.0	The Vendor shall provide free training to maximum of four BHEL's Engineers in Operation and, Maintenance (Mechanical, Electrical/ Electronics and PLC System) of the Machine at Vendor's works.		
12.2.0	Airfare, boarding & lodging for the BHEL Trainees shall be borne by BHEL.		
12.3.0	The Vendor shall impart training to BHEL's Machine Operators and Maintenance crew in Maintenance after the commissioning of the Machine at BHEL works for not less than 4 working days		
12.4.0	Competent, English speaking experts shall be arranged by the vendor during training for satisfactory & effective training of BHEL personnel		
13.0.0	MACHINE ERECTION & COMMISSIONING :		Bidder to confirm
13.1.0	Vendor to take full responsibility for supervision of the erection, start up, test the machine, its control & all types of other supplied equipment, carrying out welding of test pieces etc. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by Vendor in their layout drawings. Other requirements like crane and helping personnel shall also be provided by BHEL		
13.2.0	Successful proving of BHEL requirements by the Vendor shall be considered as part of commissioning.		
13.3.0	Tools, Tackles, Test Mandrels, instruments and other necessary equipment required to carry out all above activities should be brought by the Vendor.		
13.4.0	Commissioning spares, required for commissioning of the machine within stipulated time, shall be brought by the vendor on returnable basis.		
13.5.0	Portion, if any, of the machine, accessories and other supplied items where paint has rubbed off or peeled during transit or erection should be repainted and merged with the original surrounding paint by the vendor. For this purpose, the Vendor shall supply sufficient quantity of touch-up paint of various colours of paint used.		
13.6.0	Charges, terms & conditions for E&C shall be given (in detail) separately by Vendor along with offer.		
14.0.0	AMBIENT CONDITIONS & THERMAL STABILITY:		
	The Welding Machine with all sub-systems shall be suitable for operation in an ambient temperature of 25 to 50°C and with a Relative Humidity of 90% (both higher values do not occur simultaneously).		

PART B : TECHNICAL SPECIFICATIONS FOR TUBE TO TUBESHEET WELDING MACHINE

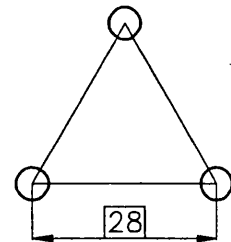
S No	FEATURES	BHEL SPECIFICATION	BIDDER'S OFFER
	Weather conditions are tropical, Atmosphere may be dust laden. Machine shall be kept in the normal shop floor condition. The ENTIRE EQUIPMENT shall be TROPICALISED in Design and CONSTRUCTION. [The offered machine shall be suitable for the above and details of provisions on the machine for the same are to be furnished by Bidder)		
15.0.0	MACHINE PERFORMANCE PROVE-OUT:		
	Prove-out trials of the welding operation on tubes as specified in Clause 1.2.0 to be done at BHEL as mutually agreed. BHEL will provide necessary materials.		Bidder to confirm
16.0.0	MACHINE PACKING:		
	Sea worthy & rigid packing for all items of complete machine, control system, all accessories and other supplied items to avoid any damage/loss in transit. When machine is despatched in containers, all small loose items shall be suitably packed in boxes.		Bidder to confirm
17.0.0	GUARANTEE TERMS:		
	Performance Guarantee for a minimum period of 12 months (for the machine in total and subsystems or bought-out items in particular) from the date of acceptance of the machine at BHEL works.		Bidder to confirm
18.0.0	GENERAL POINTS :		
	Machine Model Number and other related details		Bidder to specify
	Total Connected Load (in kVA)		
	Floor area required (Length, Width, Height) for complete machine & accessories		
	Painting of Machine/Electrical Panels: Apple green I5-5/1994 (shade: ISC No. 281)		
	Total Weight of the Machine & Accessories		Bidder to confirm
	Bidder shall submit General Arrangement drawing with major/critical dimensions for getting BHEL's concurrence before manufacture.		

ANNEXURE-1

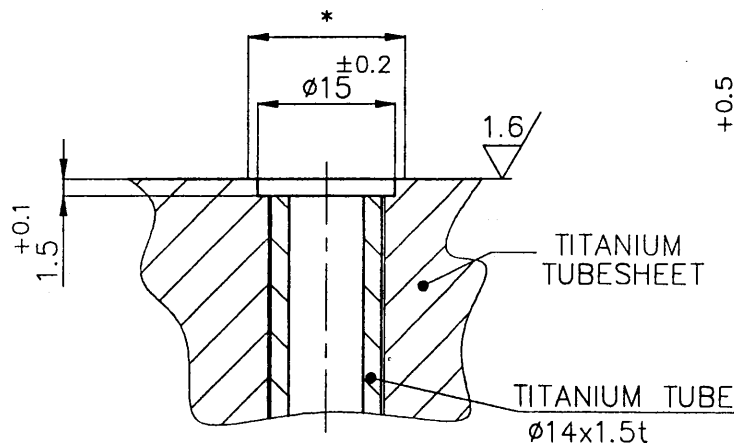
TUBE SHEET



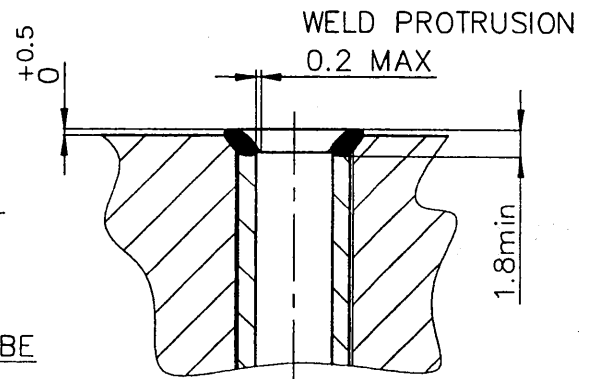
PITCH PATTERN



EP DETAIL



WELD DETAIL



NO.OF HOLES 198

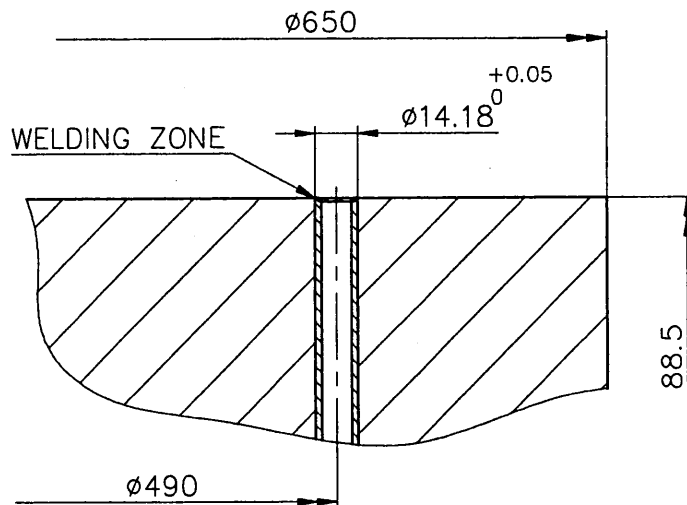
*SPOT FACING DEPTH<0.1MM AND DIA20mm

** MINIMUM DISTANCE TO WALL IS SHOWN,ALTHOUGH A NUMBER OF PERIPHERAL HOLES HAVE VALUES IN THE RANGE OF 20mm.VENDOR TO CONFIRM/MENTION SPACE REQUIREMENT FOR ACCOMODATING THE WELDING HEAD & SHIELDING ARRANGEMENT.

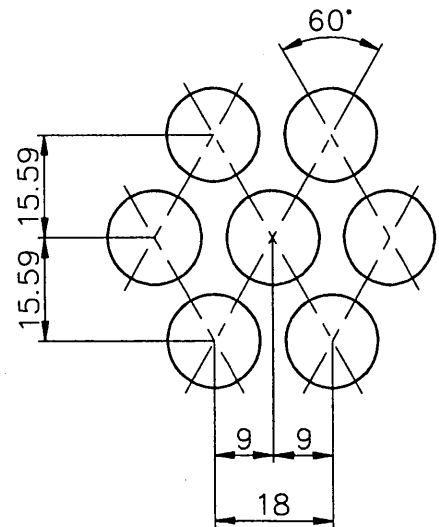
REVISION: 01

ANNEXURE-1A

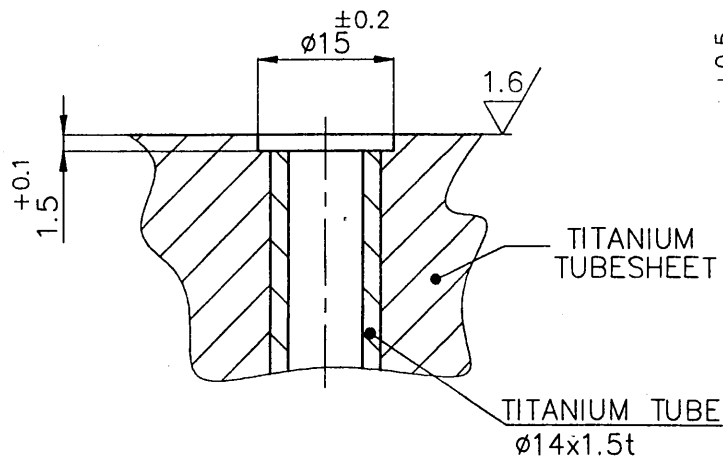
TUBE SHEET



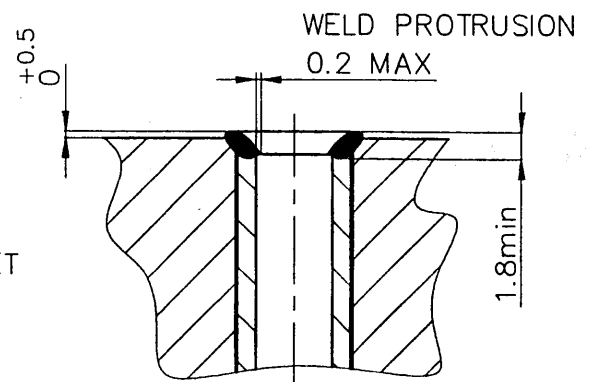
PITCH PATTERN



EP DETAIL



WELD DETAIL



NO.OF HOLES 600



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT

MM/CE / GENL/001-EMD

GENERAL GUIDELINES & INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER

Vendors are requested to read the following points / guidelines / instructions and ensure that the offer is prepared and submitted strictly as per the requirements. Offers with insufficient details would not be considered for evaluation. The following points / guidelines / instructions are part and parcel of the tender and non-compliance will result in rejection of offer.

NOTE: MSE VENDORS MAY PLEASE REFER SL.NO.6 OF THIS DOCUMENT FOR THE SPECIAL PROVISIONS APPLICABLE TO THEM AS PER GOVERNMENT DIRECTIVES

1.0	QUOTATIONS
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Considering the nature of procurement which requires a good amount of technical details, brochures, catalogues etc., to be submitted along with the offer as well as the confidentiality required to be maintained during the offer evaluation process, bidders are requested to submit their offers only through sealed bids. As the part II (the price bid) would not be opened before the technical evaluation is completed, bidders are requested not to submit their bids through email / fax etc.

Bidders shall submit the offer in **TWO PARTS** as indicated below which shall be sealed in one outer envelope.

Part I consists of Two inner envelopes and put in a sealed cover and super scribed as PART I - TECHNICAL AND UN-PRICED COMMERCIAL BID WITH EMD ENVELOPE INSIDE

Envelope I

This sealed envelope should be clearly marked as **Part I - EMD Amount , Tender Number** and must contain the required EMD amount as indicated in the attached Check List EMD shall be payable as per the instructions, otherwise the offer will not be considered. Pay Order / Demand Draft/ Swift Copy should be accompanied by a covering letter containing the details of Enquiry No. and DD/Pay order / Swift Copy particulars. DD shall be in favour of "Bharat Heavy Electricals Limited, Tiruchirappalli".

Envelope II

This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked **"Part I - Technical and Un-priced commercial bid"**, indicating Enquiry No., Due Date, Address & Reference of the Bidder.

Part II

This sealed envelope should contain **price details**. This envelope should be clearly marked **"Part II - Price bid"**, indicating Enquiry No., Due Date, Address & Reference of the Bidder

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, superscribing as **PART I AND PART II** indicating Enquiry No., Due Date, Address & Reference of the Bidder.

The above tender (envelope containing Part I & II) should reach this office on or before the due date by **14.00 Hrs (IST)**. Tenders received after 14.00 Hrs (IST) will not be considered for evaluation.

Tender should not be addressed to any Individual's name but only by designation to:

DGM / CAPITAL EQUIPMENT/ MM
1st Floor – IC Building,
BHARAT HEAVY ELECTRICALS LIMITED
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI – 620 014
TAMIL NADU, INDIA

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Tenders should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the tenders will not be considered for evaluation.

Tenders will have to be submitted by the Original Equipment Manufacturer only. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/supplier in the same tender. Offers, if submitted by authorised agents/dealers of OEM/ Supplier should be accompanied by a VALID AUTHORISATION LETTER ISSUED BY THE OEM. Moreover, either the agent could bid on behalf of the manufacturer /supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both the manufacturer/supplier and the agent, bid received from the agent shall be ignored.

If the past performance of a vendor in any of the previous Purchase orders/contracts/in any projects, of BHEL Units, and NON-BHEL, is not satisfactory BHEL then reserves the full right to reject such offers of those vendors straightaway irrespective of their suitability and will not be considered for further processing of the tender.

2.0	PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)
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2.1	Technical
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This part shall include / indicate the following:

2.1.1	Tenders should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
2.1.2	Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations, the same should be clearly specified. Tenders received without confirmation to our specification will be rejected.
2.1.3	List of customers to whom same or similar equipment have been supplied along with performance certificates are to be enclosed.
2.1.4	Relevant catalogues to be attached

2.1.5	List of spares parts (with part numbers) for two years operation and maintenance should be attached.
2.1.6	Information on shipping weight and cubage (length, width & height) to be provided.
2.2	Un-Priced Commercial

This part shall include / indicate the following:

2.2.1	Acceptance of commercial terms and conditions by the bidders (in the check-list enclosed)
2.2.2	Port of shipment / Station of despatch
2.2.3	Terms of payment
2.2.4	CFR price (for foreign bidders) / F.O.R.BHEL works as required in the check list (attached with this Tender)
2.2.5	Taxes, Service tax & duties including cess applicable.
2.2.6	Delivery Schedule from the date of Purchase Order
2.2.7	Offer validity
2.2.8	Country of origin
2.2.9	Currency in which the price has been indicated.
2.2.10	Percentage of agency commission if any along with a copy of Agency agreement. The CFR prices quoted shall include the agency commission.
2.2.11	A copy of the Price Bid without the price details to be enclosed. (UNPRICED BID)

3.0	OPENING OF TENDERS
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PART I

a) EMD envelope would be opened on the tender opening date and if EMD is not submitted, the offer is liable to be rejected.

b) Technical & Un-priced commercial bid would be opened on the Tender opening date.

PART II – The Technical Bid received (under Part I) would be evaluated and bidders qualifying alone will be considered for further processing. BHEL would proceed with Reverse Auction route or Price Bid opening route for finalizing the tender, which would be intimated to the qualified bidders after completion of the techno-commercial evaluation.

BHEL reserves the right to go for a Reverse Auction (RA) instead of Opening the Price Bid submitted, which will be decided after the techno-commercial evaluation. Information and general terms and conditions governing RA are given below.

TERMS & CONDITIONS OF REVERSE AUCTION

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ONLINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed Reverse Auction, Technically and Commercially acceptable bidders only shall be eligible to participate.

2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit “online sealed bid” in the Reverse Auction.

Non-submission of “online sealed bid” by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.

4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.

5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.

6. Bidders have to fax the Reverse Auction Process Compliance Form provided before RA along with Business Rules by the Service Provider. This Compliance Form shall be sent to the Service Provider well before the Reverse Auction in order to get the Log in ID and Password for participating in the RA. Without the submission of Reverse Auction Process Compliance Form, the bidder will not be eligible to participate in the event.

7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g. EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for noncompliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.

8. Reverse auction will be conducted on scheduled date & time.

9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, as provided on case-to-case basis to Service provider within two working days of Auction without fail.

11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL’s standard practice.

12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before Reverse Auction event. Bidders should acquaint themselves of the “Business Rules of Reverse Auction”, which will be communicated before the Reverse Auction.

13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

15. In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

4.0	DEFINITIONS & OTHER TERMS
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Fixed price: Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non-responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price written in words shall be valid and binding.

Bid currency: Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit the bid in their home currency, which should be clearly indicated in the un-priced commercial bid as well as in the price bid.

Taxes and Duties: All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which BHEL will not be liable for payment of such Taxes and Duties. Our TIN No. , CST No. BHEL ECC No. IE Code and Assessment circle for the particular BHEL Unit will be notified at the time of ordering.

In case taxes and duties are indicated as inclusive in the quoted prices, it will be reimbursed only upon furnishing the documentary evidence for having paid such taxes and duties. Any difference in taxes (on account of reduction in the levies) between what has been paid by BHEL to the vendor (based on what has been indicated in the Purchase Order) and actually paid by vendor should be passed on to BHEL.

For services rendered by the foreign vendor in India (like Erection & Commissioning supervision etc.) Income Tax (IT) shall become payable by the Foreign vendor. Hence, Foreign bidders are requested to take care of the IT payment during submission of tender.

If the foreign vendor possesses Indian PAN CARD (Permanent Account Number) Registration, the details of the same shall be furnished along with the Un-priced Bid cover (Part-II) with documentary evidences (PANCARD copy) for Income Tax purposes (concessions).

Cenvat & VAT credit: (applicable for Indian Bidders only) the quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case Excise Duty is applicable. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to BHEL.

Packing: The Supplier shall arrange for packing suitably in all respects considering the peculiarity of the material involved for normal safe transport by sea / air / rail / road and suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports.

Salient points of HSE (Health Safety & Environment) that are to be considered while submission of offer are:

- Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuel/chemicals)
- Competency requirements for operation, maintenance and calibration, if any, shall be communicated
- If any hazardous chemicals as per MSIHC (Manufacturing, Storage and import of such Hazardous Chemicals) Rules 1989/94/2000 are used, the MSDS shall be provided along with On site & Off site emergency plan (as applicable)
- The noise level at operator level shall be within 80 dBA

- OH&S (Occupational Health and Safety) control measures for safe working of machine as applicable shall be specified.
- The machine / equipment shall be fitted with guard for rolling and moving parts and shall comply with applicable OH&S legislations and Factories Act 1948
- The supplier shall submit the layout drawing of operating controls, displays etc. Along with operating instructions to enable ergonomics evaluation and approval.
- The recommended list of PPE (Personal Protective Equipment) for the equipment shall be furnished.
- Alarm system (both visual and audible) and Automatic switch off of the equipment shall be provided for any intrusion, overloading, short circuiting or any malfunctioning of the equipment.
- Details of all hazardous / harmful substances discharged as by-products / wastes during operations of the machine / equipment, such as fumes, gases, dust particles, aerosols UV/IR (Ultra violet / infra red) radiations etc., shall be furnished along with their concentrations and their TLV, (Threshold Limit Value).
- Appropriate pollution control measures shall be proposed to keep the emissions from the machinery / processes within the prescribed limit as stated in Environment Protection Rules 1986.
- All furnaces, process units, DG sets, paint booths, shot blasting chambers, etc. shall be provided with stack(s) of sufficient height as per guidelines laid down in the Environment Protection Rules 1986.
- Wherever industry specific standards are not available for control of pollutants, general emission standards shall be used.
- Chemicals banned due to their negative impact on the environment shall not be used in the process.
- Fuels with sulphur content less than 0.05% shall be proposed.
- Details regarding nature of waste generated and appropriate disposal practices available shall be provided, along with the operation procedure of the plant / process. Hazardous chemicals and flammable substances shall be transported only through authorized transporters and all safety practices as laid down in applicable legislative requirements such as Central Motor Vehicle Rules, Manufacture, Storage and Import of Hazardous Chemical 1989, etc. shall be followed
- Primary materials used in the equipment shall be specified and they shall be eco-friendly

Force Majeure clause:

If at any time during the continuance of the contract the performance in whole or in part by either party of any obligations under the contract is prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) and notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof then neither party shall by reason of such events be entitled to terminate the contract. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of occurrence of such events, then claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser the particulars of the events, if required with 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 deliveries.

Agency agreement from foreign suppliers for their Indian agents:

Based on Ministry of Finance vide circular dated 31/01/1989 the following are compulsory:

- Registration of Indian agents of a foreign supplier.
- Precise relationship between foreign suppliers and their Indian agents and their mutual interest in the business, should be clearly spelt out.
- Any payment, which the agent receives in India or abroad, from the foreign supplier, whether as a commission or as a general retainer fee, also needs to be brought on record and made explicit so as to ensure compliance to tax laws and to prevent leakage of foreign exchange.
- All services to be rendered by the agent, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier and the Indian agent.
- The amount of agency commission agreed to between the foreign principal and the Indian agent should be specifically disclosed and the agency commission will be paid in Indian Rupees only.
- A copy of the Agency Agreement with the above details shall be provided.

Short shipment / Warrantee replacement:

In case of any short-shipment during initially supply, subsequently dispatched by the supplier or any warrantee replacement dispatched during the warrantee period shall be dispatched on “DDP – Delivered Duty Paid BHEL Stores” basis for foreign suppliers and “FOR BHEL Stores” basis for Indian suppliers.

Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL Stores. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch. However, final inspection and acceptance of the machine will be carried after installation of the machine BHEL.

5.0	GENERAL
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Tenders will have to be submitted by the Original Equipment Manufacturers only and the offered equipment shall be “New”. Offers for Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for evaluation. Evaluation of offers shall be on “Net Cash Outflow to BHEL basis”.

BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / Units.

BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.

The correspondence exchanged against the tender between the bidder and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction / communication pertaining to the tender carried out by the bidder and BHEL round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LoI) is issued through email, the computer generated time and date of mail shall be construed as the official time and date of release of LoI. In as much as this date is within the last date of validity given by the bidder the LoI is said to have been issued within the validity period and shall be binding on both the parties to the business.

SUSPENSION OF BUSINESS DEALINGS WITH DEFAULTERS:-

BHEL shall take action against suppliers by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc. Such action under Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier or a bidder or an applicant for registration as a registered supplier. The detailed guidelines is available at our www.bhel.com.

Also, bidders participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing enquiries even if participated till the hold is officially lifted and confirmed in writing.

6.0	<u>SPECIAL PROVISIONS APPLICABLE FOR MSE VENDORS</u>
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In line with the Gazette Notification issued by Ministry of Micro, Small and Medium Enterprises on MSE suppliers 20% of the tendered quantity is earmarked for MSE suppliers. Out of the 20% tendered quantity earmarked for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs.

In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either

1. EM II certificate having deemed validity (two years from the date of issue of acknowledgement in EM II) or
2. Valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status (MICRO or SMALL) where the deemed validity of EM II is over.

Date to be reckoned for determining the deemed validity will be the last date of technical bid submission (Part 1 in case of two part bid.)

Non submission of such documents will lead to consideration of their bid at par with other bidders and MSE status of such suppliers shall be shifted to NON MSE suppliers till the supplier submit this documents. Documents should be notarized or attested by a Gazetted officer.

Definitions of MSEs owned by SC / ST is under:

- In case of proprietorship firm, proprietor must be SC/ST.
- In case of partnership firm, the SC / ST partners must be holding at least 51% shares in the unit.
- In case of private limited companies, at least 51% share must be held by SC/ST promoters.

Authorized Offices to issue SC/ST certificate.

The caste / Tribe / Community certificate issued by the following authorities in the prescribed form for SCs / STs can be considered.

- District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st Class stipendary magistrate / Sub Divisional Magistrate / Taulka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
- Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- Revenue Officer not below the rank of thasildar.
- Sub-Divisional officer of the area where the individual and / or his family normally resides.

To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.

7.0	<u>FRAUD PREVENTION POLICY:</u>
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The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice”

8.0	<u>ARBITRATION:</u>
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All disputes between the parties to the Contract, arising out-of or relating to the Contract, other than those for which the decision of the BHEL, Trichy, or Accepting Officer or any other person is by the Contract expressed to be final and conclusive shall after written notice by either party to the Contract to the other party be referred to the sole Arbitration of Executive Director or other Officers of BHEL appointed as Arbitrator, by the Executive Director of BHEL in his sole discretion. Unless the parties otherwise agree, such reference shall not take place until after the completion, alleged completion or abandonment of the work of the determination of the Contract. The venue of Arbitration shall be such a place or places as may be fixed by the Arbitrator in his sole discretion. The award of the Arbitrator shall be final, conclusive and binding on both parties to the Contract.

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

Compliance Form NO: ATP/IND/02A	
BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI	
CAPITAL EQUIPMENT /MATERIALS MANAGEMENT	
<u>COMPLIANCE FORM FOR ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY INDIGENOUS VENDORS</u>	
(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this Compliance Form is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, the offer is liable for rejection)	
(TENDER REQUIRING EMD, CEBG and PBG)	
Description of the Equipment: Tube to Tube Sheet Orbital TIG welding Machine (01 No.)	
BHEL Tender No. & Date: 2731700002 dt.14.02.2017	
PART I of Tender: EMD/SWIFT message Copy + Technical Bid + Unpriced Bid + this Compliance Form	
PART II of Tender: Price Bid	
ENQUIRY TERMS & CONDITIONS	
Vendor's Confirmation	
1.0 PRICE BID:	
Price Bid should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Techno-commercial bid alone without the Price Bid will be rejected. The prices contracted shall be firm till the execution of the contract in full and in all respects.	Accepted
The bidder has to quote charges for 'Supply' and 'Erection & Commissioning' separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL).	
2.0 VALIDITY:	
Validity of the offer should be 120 days from the date of tender opening. BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.	Accepted
3.0 EARNEST MONEY DEPOSIT (EMD):	
In Order to ensure that the successful bidder / vendor does not refuse to execute the Order, after award of the same on him, each bidder / vendor will be required to furnish Earnest Money Deposit (EMD) along with their tender. EMD by the Tenderer will be forfeited as per Tender Documents if, after opening the tender, the Tenderer on his own makes variation in his earlier quoted rates or revokes/change any other condition of his tender within the validity period.	Accepted
MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed as per Annexure - I) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.	
Bidders can remit their EMD amount through SWIFT to BHEL Bank Account and the copy of the SWIFT CONFIRMATION MESSAGE shall be submitted in Part – I sealed envelope. BHEL Bank Details: BENEFICIARY: BHEL ACCOUNT NO: 10891588977 SWIFT: SBININBB190 IFSC CODE: SBIN0001363 BANK: STATE BANK OF INDIA BRANCH: HE / KAILASAPURAM PLACE: TRICHIRAPPALLI, INDIA	
EMD shall be submitted in cash (as permissible under Income Tax Act), Pay Order or Demand Draft also. DD shall be in favour of "Bharat Heavy Electricals Limited, Tiruchirapalli".	
3.1 RETURNING OF EMD:	
EMD given by all unsuccessful Tenderer shall be refunded on award of LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned after submission of CEBG/ PBG. EMD shall not carry any interest.	Accepted
3.2 The EMD amount for this Tender will be (INR) :	1,50,000
Purchase Orders will be released separately for supply and service portion on the successful vendor.	Accepted
4.0 RELEASE OF PURCHASE ORDER:	
Purchase Orders will be released separately for supply and service portion on the successful vendor.	Accepted
5.0 PAYMENT TERMS:	

	For SUPPLY P.O.: 80% payment of Supply P.O. value shall be made within 45 days from the date of receipt of material at BHEL. For BALANCE OF SUPPLY P.O. & SERVICE P.O. Balance 20% of Supply value plus 100% of the E&C portion of PO value will be paid against Final Minutes of Meeting for E&C, jointly signed by BHEL and Supplier and submission of Performance Bank Guarantee (PBG)	Accepted
5.1	Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:	
	If any Bidder requires a payment exceeding 80% of the PO value, such bidder have to submit Advance Bank Guarantee (ABG) in the prescribed Format for the amount over and above 80% but restricted to 90% of the PO value, along with the invoice / despatch documents. This ABG shall be valid up to the date of Final Minutes of Meeting for E&C for the equipment. Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, the following loading pattern shall be followed: Base rate of SBI as applicable on the scheduled date of tender opening + 6%, for the amount & period of relaxation sought by bidder.	Accepted
6.0	Value for Erection & Commissioning at BHEL:	
	Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, training to operators, supervising foundation work etc. (to be together called as E&C). E&C is in the scope of supplier , and hence the E&C value should be quoted separately.	Accepted
	E&C value should be quoted separately by Bidders. Only in case where quoted value is less than the minimum value indicated below or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated below and accordingly supply value will be adjusted from that quoted value and the balance will be released as E&C payment. The bidder, however, can choose to quote the E&C value higher than the below mentioned minimum E&C value (%) and suitably apportion the supply value.	Accepted
	COST OF ERECTION & COMMISSIONING PORTION QUOTED BY VENDOR (%) - (Should be equal to or more than 3%)	
	In case of non-acceptance to split the cost of the equipment into supply portion and E&C portion, then the Payment of 80% against supply will be reduced to 77% (80% - 3%)	
	In such cases, the balance amount (23%) payable after commissioning	
7.0	Taxes & Duties:	
	All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which BHEL will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Assessment circle Tiruverambur In case taxes and duties are indicated as inclusive in the quoted prices, it will be reimbursed only upon furnishing the documentary evidence for having paid such taxes and duties. Any difference in taxes (on account of reduction in the levies) between what has been paid by BHEL to the vendor (based on what has been indicated in the Purchase Order) and actually paid by vendor should be passed on to BHEL..	Accepted
8.0	Delivery terms, Delivery period required and evaluation process:	
8.1	Delivery terms: F.O.R BHEL, Trichy-14.	Accepted
	Basis of Delivery Terms :	
	Price break-up details like Basic price, P&F, Taxes & Duties, Freight and Insurance etc., should be indicated in the offer.	Accepted
8.2	Delivery period: The equipment enquired forms a part of an expansion program (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period.	
	Bidder should quote time period separately for 'Supply' and 'E&C' of equipment.	
	(a) Supply period :- For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (LWB date) from the date of Purchase Order in the "Vendor's confirmation" below. Order acceptance, submission of CEBG, drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	5 Months
	DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)	
	(b) E&C period :- Duration shall be counted from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.	
	E & C PERIOD (in weeks) REQUIRED BY BHEL (E & C PORTION)	2 Weeks
	E & C PERIOD (in weeks) OFFERED BY VENDOR (E & C PORTION)	
	However, while evaluating the offers, those offers which are not conforming the requested delivery period and E&C period, COMMERCIAL LOADING @ ½% of the purchase order value per week will be done for the EXTRA PERIOD requested. For evaluation purpose 4 weeks will be considered as one month. Commercial loading on the offered price will be done during evaluation of the offers	Accepted

	BHEL reserves the right to accept an offer not meeting the NIT delivery. However based on the scheme requirement, the Technically Suitable offerers would be requested to reduce their offered delivery schedule and in case if it is not meeting BHEL requirement or maximum limit considered by the Technical Committee, the offer may become liable for rejection.	Accepted
9.0	CONTRACT EXECUTION BANK GUARANTEE (CEBG):	
	The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO but before L/C opening. If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period.	Accepted
	CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&C issued by BHEL	
	Validity of CEBG = Delivery period + Transit time of 1 month + Commissioning period + 1 month (for arranging PBG) + 2 months for claim period	
10.0	PERFORMANCE BANK GUARANTEE (PBG):	
	The vendor shall submit a Performance Bank Guarantee (PBG) for 10% of the Purchase Order value in the format enclosed covering the agreed Guarantee period (with additional 2 months as claim period).	Accepted
	The Bank Guarantees (CEBG & PBG) shall be issued exactly as per the BHEL Format attached with this Tender (without any deviation) by any one of the Consortium Banks of BHEL (List Enclosed) or from a reputed Bank and confirmed by any Consortium Bank of BHEL.	Accepted
	All bank charges incurred on account of issuance of CEBG and PBG will have to be borne by the vendor.	
	1) It should be typed in the INR 100 value of stamp paper.	
	(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.	
	(3) It should be submitted with bank covering letter with sign and seal of the bank official.	
	Offers from vendors not accepting to submit CEBG and PBG are liable for rejection.	
11.0	LIQUIDATED DAMAGES (LD):	
	a) LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C). The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).	Accepted
	Maximum LD for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).	
	In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value (Supply + E&C) for each individual machine.	
	b) For the purpose of LD for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site. c) Loading on account of non-acceptance of LD for delayed Supply and/or E&C shall be as under: In case any bidder is not accepting the above LD for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.	
	d) Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.	
	For the purpose of levying LD, the date of shipment (LWB date) will be considered.	
	Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&C: In case any bidder is not accepting the above LD clause for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder .	
12.0	SHORT SUPPLY / WARRANTY REPLACEMENT:	
	In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on FOR BHEL Works basis.	Accepted
13.0	RISK PURCHASE:	

	BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have necessarily submit 'online sealed bid' in the Reverse Auction. Non- submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid. Wherever, the evaluation is done for individual line item, separate envelope sealed price bid for each line item shall be taken. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
14.0	GUARANTEE:	
	Vendors shall provide a guarantee for 12 months from the date of acceptance of the machine at BHEL. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	Accepted
15.0	REVERSE AUCTION (RA):	
	BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have necessarily submit 'online sealed bid' in the Reverse Auction. Non- submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
16.0	CONTACTS:	
	Details of contact person's name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned	
	Name:	
	Designation:	
	Email ID:	
	Phone No.:	
	Mobile No.	
	Fax No.:	
	Address:	
	Weight & Cubage of package:	
	Approximate Net weight of the total consignment:	
	Approximate Gross weight of the total consignment:	
	Approximate volume of the total consignment:	
	The vendor to provide Audited Balance Sheet & Annual Report signed by the Auditors (or) Bank Credit Statement signed by the Bankers for past consecutive four years from the date of tender opening.	
	We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the NIT and confirm that our offer has been made in line with the same and the confirmations given in the above compliance form supercede any other standard information provided in our quotation.	
	Signature with date: (AFFIX OFFICIAL SEAL HERE)	
	Name:	
	(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)	

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI	
CAPITAL EQUIPMENT /MATERIALS MANAGEMENT	
<u>COMPLIANCE FORM FOR ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY FOREIGN VENDORS</u>	
(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this Compliance Form is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, the offer is liable for rejection)	
(TENDER REQUIRING EMD, CEBG and PBG)	
Description of the Equipment: Tube to Tube Sheet Orbital TIG welding Machine (01 No.)	
BHEL Tender No. & Date: 2731700002 dt.14.02.2017	
PART I of Tender: EMD/SWIFT message Copy + Technical Bid + Unpriced Bid + this compliance form	
PART II of Tender: Price Bid	
	ENQUIRY TERMS & CONDITIONS
	Vendor's Confirmation
1.0 PRICE BID:	
Price Bid should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Techno-commercial bid alone without the Price Bid will be rejected. The prices contracted shall be firm till the execution of the contract in full and in all respects.	Accepted
The bidder has to quote charges for 'Supply' and 'Erection & Commissioning' separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL). For evaluation, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part - I in case of Two Part Bid) shall be considered.	
2.0 CURRENCY OF PAYMENT:	
Foreign vendors to indicate the currency like Euro (€) / US\$ / GBP / JY etc. in the confirmation column. In case the foreign vendor sources some components from India for direct supply to BHEL, the payment for those components shall only be in Indian Rupees	
3.0 VALIDITY:	
Validity of the offer should be 120 days from the date of tender opening. BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.	Accepted
4.0 EARNEST MONEY DEPOSIT (EMD):	
In Order to ensure that the successful bidder / vendor does not refuse to execute the Order, after award of the same on him, each bidder / vendor will be required to furnish Earnest Money Deposit (EMD) along with their tender. EMD by the Tenderer will be forfeited as per Tender Documents if, after opening the tender, the Tenderer on his own makes variation in his earlier quoted rates or revokes/change any other condition of his tender within the validity period.	Accepted
Foreign Bidders can remit their EMD amount through SWIFT to BHEL Bank Account and the copy of the SWIFT CONFIRMATION MESSAGE shall be submitted in Part – I sealed envelope. BHEL Bank Details: BENEFICIARY: BHEL ACCOUNT NO: 10891588977 SWIFT: SBININBB190 IFSC CODE: SBIN0001363 BANK: STATE BANK OF INDIA BRANCH: HE / KAILASAPURAM PLACE: TRICHIRAPPALLI, INDIA	
4.1 RETURNING OF EMD:	
EMD given by all unsuccessful Tenderer shall be refunded on award of LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned after submission of CEBG/ PBG. EMD shall not carry any interest.	Accepted
4.2 The EMD amount for this Tender will be (INR) :	1,50,000
5.0 RELEASE OF PURCHASE ORDER:	

	Purchase Orders will be released separately for supply and service portion on the successful vendor.	Accepted
6.0	PAYMENT TERMS:	
	For SUPPLY P.O. Where the payments are through L/C (LC opening charges will be loaded while comparing the offers), Payment of Supply value shall be 80% on dispatch and 20% on issue of E&C Certificate. Payment of E&C value shall be made against Final Minutes of Meeting for E&C issued by BHEL. Final Minutes of Meeting for E&C shall be issued on satisfactory completion of erection, commissioning, job proving, performance tests, training to operators etc as envisaged in PO. The L/C shall be opened as per following:	Accepted
	An Irrevocable Unconfirmed L/C will be opened for 80% of the payment towards supply, due for shipment, only if the following conditions are met with:	
	i. Not earlier than 60 days before the shipment date, ii. <u>Only after BHEL receiving the Pre-dispatch Inspection call / intimation of readiness of the ordered items, from the supplier,</u>	
	The above L/C can be negotiated after shipment against submission of B/L or AWB and other documents as mentioned in the Purchase Order. The above L/C will be valid for a maximum period extending 21 days beyond the shipment date for negotiation of documents based on the transit time required.	
	For BALANCE OF SUPPLY P.O. & SERVICE P.O. 15 days prior to the scheduled & confirmed arrival of the technicians (foreign) of Supplier with their names, an irrevocable unconfirmed L/C will be opened for a value equal to 20% of the Supply value of PO and another LC for 100% of the E&C value of PO . The validity of L/C would be sufficient to cover the period required for the completion of E&C.	
	This L/C can be negotiated after completion of E&C of the equipment in BHEL and A) Submission of Final Minutes of Meeting for E&C, jointly signed by BHEL and Supplier and (b) Submission of Performance Bank Guarantee (PBG) by Supplier.	
6.1	Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:	
	If any Bidder requires a payment exceeding 80% of the PO value, such bidder have to submit Advance Bank Guarantee (ABG) in the prescribed Format for the amount over and above 80% but restricted to 90% of the PO value, along with the invoice / despatch documents. This ABG shall be valid up to the date of Final Minutes of Meeting for E&C for the equipment. Additionally, for any deviation sought as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, the following loading pattern shall be followed: Base rate of SBI as applicable on the scheduled date of tender opening + 6%, for the amount & period of relaxation sought by bidder.	Accepted
7.0	Value for Erection & Commissioning at BHEL:	
	Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, training to operators, supervising foundation work etc. (to be together called as E&C). E&C is in the scope of supplier, and hence the E&C value should be quoted separately.	Accepted
	E&C value should be quoted separately by Bidders. Only in case where quoted value is less than the minimum value indicated below or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated below and accordingly supply value will be adjusted from that quoted value and the balance will be released as E&C payment. The bidder, however, can choose to quote the E&C value higher than the below mentioned minimum E&C value (%) and suitably apportion the supply value.	
	COST OF ERECTION & COMMISSIONING PORTION QUOTED BY VENDOR (%) - (Should be equal to or more than 3%)	
	In case of non-acceptance to split the cost of the equipment into supply portion and E&C portion, then the Payment of 80% against supply will be reduced to 77% (80% - 3%)	
	In such cases, the balance amount (23%) will be paid after commissioning.	
8.0	Taxes & Duties:	

	All Taxes, Duties etc. as required to be paid in the country of export shall be included in the price quoted by the foreign vendor. All duties (like customs duty etc.) payable in India will be paid by BHEL (however, the same would be loaded to the offer during the evaluation process). For the supplies made from India taxes & duties payable shall be clearly mentioned in the offer, failing which such taxes and duties shall have to be borne by the vendor.	Accepted
9.0	Income Tax applicable.	
	Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. The TDS certificate will be issued after 3 months from the date of E&C payment.	Accepted
9.1	Details of valid Indian PERMANENT ACCOUNT NUMBER (PAN) of the company, if registered may be provided in the space given below: (in addition a copy of the PAN CARD shall be attached along with Part I Techno Commercial bid)	
10.0	Delivery terms, delivery period required and evaluation process:	
10.1	Delivery terms: CFR Chennai Seaport - Incoterms 2010 with place of delivery - INTVT6- CONCOR ICD/ Chennai Air port Incoterms 2010	Accepted
	Basis of Delivery Terms :	
	Price break-up details like FOB price, ocean freight/air freight etc., should be indicated in the offer. The transfer of title of the goods supplied by the vendor takes place in line with INCOTERMS 2010.	Accepted
	i) Bidders should submit their offer for CFR / Chennai Port basis with freight break up details and Place of delivery – INTVT6 – CONCOR ICD. ii) PORT OF LOADING SHOULD BE INDICATED WITHOUT FAIL. iii) PORT OF DISCHARGE should be CHENNAI and PLACE OF DELIVERY - INTVT6 – CONCOR ICD	
	Vendors should indicate the mode of shipment Viz. break-bulk basis or container basis. The following points should taken note of for CFR Shipments and the vendors are required to submit their offer accordingly : CONTAINERIZED CARGO: (i) For CFR terms, moved through CONTAINERS (Suppliers should clearly specify this in their offer) it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis including extra charges, if any, like Container Imbalance Charges, Trade Imbalance charges or any other charges payable to the Liner. No other charges other than the quoted Freight rate will be paid by BHEL excepting applicable Terminal Handling Charges, Container cleaning Charges, DO charges to Shipping Liner at Discharge Port. 14 FREE DAYS FOR Container detention shall be provided. If any deviation is taken by Tenderer, a loading of 22% on the freight rate per MT shall be considered by BHEL for arriving at the Total landed Cost. (ii) In case of shipment through Containers on CFR basis, the BL should bear the endorsement that “14 free days for Container Detention is applicable”. Vendors should ensure that shipping lines carrying their cargo will allow a minimum free period of 14 days from the date of berthing of the vessel for clearing the consignment at the discharge port (iii) Place of delivery – INTVT6 – CONCOR ICD should be clearly specified in the Bill of Lading.	
	BREAKBULK CARGO: (i) For CFR terms, moved through BREAK BULK BASIS (Suppliers should clearly specify this in their offer) it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis. (ii) Place of delivery – INTVT6 – CONCOR ICD should be clearly specified in the Bill of Lading.	
	AIR CARGO: With respect to air consignments, offers may be obtained only on FOB/(name of Loading) airport basis only. In case of any deviation from this term, the same can be got clarified with vendors before opening of price bids.	
	(b) E&C period :- Duration shall be counted from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.	
10.2	Delivery period: The equipment enquired forms a part of an expansion program (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period.	
	Bidder should quote time period separately for ‘Supply’ and ‘E&C’ of equipment.	

	(a) Supply period :- For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (B/L or AWB date) from the date of Purchase Order in the "Vendor's confirmation" below. Order acceptance, submission of CEBG, drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	5 Months
	DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)	
	E & C PERIOD (in Weeks) REQUIRED BY BHEL.	2 Weeks
	E & C PERIOD (in Weeks) OFFERED BY VENDOR (E & C PORTION)	
	However, while evaluating the offers, those offers which are not conforming the requested delivery and E & C period, COMMERCIAL LOADING @ ½% of the purchase order value per week will be done for the EXTRA PERIOD requested. For evaluation purpose 4 weeks will be considered as one month. Commercial loading on the offered price will be done during evaluation of the offers	Accepted
	BHEL reserves the right to accept an offer not meeting the NIT / Enquiry delivery. However based on the scheme requirement, the Technically Suitable offerers would be requested to reduce their offered delivery schedule and in case if it is not meeting BHEL requirement or maximum limit considered by the Technical Committee, the offer may become liable for rejection.	Accepted
11.0	CONTRACT EXECUTION BANK GUARANTEE (CEBG):	
	The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO but before L/C opening. If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period.	Accepted
	CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&C issued by BHEL	
	Validity of CEBG = Delivery period + Transit time of 2 months + Commissioning period + 1 month (for arranging PBG) + 2 months for claim period	
12.0	PERFORMANCE BANK GUARANTEE (PBG):	
	The vendor shall submit a Performance Bank Guarantee (PBG) for 10% of the Purchase Order value in the format enclosed covering the agreed Guarantee period (with additional 2 months as claim period).	Accepted
	The Bank Guarantees (CEBG & PBG) shall be issued exactly as per the BHEL Format attached with this Tender (without any deviation) by any one of the Consortium Banks of BHEL (List Enclosed) or from a reputed Bank and confirmed by any Consortium Bank of BHEL.	Accepted
	All bank charges incurred in India and outside India on account of issuance of CEBG and PBG will have to be borne by the foreign vendor.	
	1) It should be typed in the INR 100 value of stamp paper.	
	(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.	
	(3) It should be submitted with bank covering letter with sign and seal of the bank official.	
	Offers from vendors not accepting to submit CEBG and PBG are liable for rejection.	
13.0	LIQUIDATED DAMAGES (LD):	
	a) LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C). The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).	
	Maximum LD for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).	
	In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value (Supply + E&C) for each individual machine.	

	b) For the purpose of LD for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site. c) Loading on account of non-acceptance of LD for delayed Supply and/or E&C shall be as under: In case any bidder is not accepting the above LD for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.	Accepted
	d) Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.	
	For the purpose of levying LD, the date of shipment (BL /AWB date) will be considered.	
	Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&C: In case any bidder is not accepting the above LD clause for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder .	
14.0	SHORT SUPPLY / WARRANTY REPLACEMENT:	
	In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on DDP - Incoterms 2010 basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on DDP - Incoterms 2010 basis .	Accepted
15.0	RISK PURCHASE:	
	If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order. BHEL reserves the right not to consider offers from vendors not accepting the above Risk Purchase terms.	Accepted
16.0	GUARANTEE:	
	Vendors shall provide a guarantee for 12 months from the date of acceptance of the machine at BHEL. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	Accepted
17.0	REVERSE AUCTION (RA):	
	BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have necessarily submit 'online sealed bid' in the Reverse Auction. Non- submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
18.0	AGENCY COMMISSION	
	Vendors to specify the percentage agency commission payable to their Indian Agent in the vendor confirmation space given below. If agency commission is not applicable, vendor shall state that clearly in the space given below.	
	AGENCY COMMISSION : APPLICABLE (____ %) / NOT APPLICABLE	
	Particulars of Indian Agent (a copy of Agency agreement shall be enclosed. The CFR prices quoted shall include the agency commission) :	
19.0	CONTACTS:	

	Details of contact person's name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned	
	Name:	
	Designation:	
	Email ID:	
	Phone No.:	
	Mobile No.	
	Fax No.:	
	Address:	
	Country of origin:	
	Port of loading:	
	Weight & Cubage of package:	
	Approximate Net weight of the total consignment:	
	Approximate Gross weight of the total consignment:	
	Approximate volume of the total consignment:	
	The vendor to provide Business Information Report (BIR) incorporating the rating of the company by international credit rating agencies, viz., DUNS number of M/s DUN & Bradstreet (D&B) etc. for past consecutive four years from the date of tender opening.	
	We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the NIT and confirm that our offer has been made in line with the same and the confirmations given in the above compliance form supercede any other standard information provided in our quotation.	
	Signature with date: (AFFIX OFFICIAL SEAL HERE)	
	Name:	
	(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)	



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT/MODERNISATION

ANNEXURE – G

CONTRACT EXECUTION BANK GUARANTEE BOND

This deed of guarantee made this day of 200. by the..... Bank Ltd, (hereinafter referred to as “the Bank”) in favour of Bharat Heavy Electricals Limited, Tiruchirappalli having its registered Office at New Delhi with its Unit Office at Tiruchirappalli where as M/s..... having its registered office at (hereafter called the “the Contractor”) have entered in to contract with Bharat Heavy Electricals Limited, Tiruchirappalli for the supply of vide Purchase Order No dated

1. We Bank Ltd, do hereby undertake to pay to Bharat Heavy Electricals Limited, Tiruchirappalli an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be caused to or suffered by Bharat Heavy Electricals Limited, Tiruchirappalli by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order.

2. We, Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from Bharat Heavy Electricals Limited, Tiruchirappalli stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by Bharat Heavy Electricals Limited, Tiruchirappalli by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor's failure to perform the said Purchase Order. 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, Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of Bharat Heavy Electricals Limited, Tiruchirappalli under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Bharat Heavy Electricals Limited, Tiruchirappalli certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all 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 **and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith)** notwithstanding the fact that the said enforcement is effected after the said date

For the purpose of this clause, any letter making demand on the Bank by Bharat Heavy Electricals Limited, Tiruchirappalli dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank (**any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) 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.

4. We,.....Bank Ltd, further agree with Bharat Heavy Electricals Limited, Tiruchirappalli that Bharat Heavy Electricals Limited, Tiruchirappalli 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 Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by Bharat Heavy Electricals Limited, Tiruchirappalli against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor or for any forbearance, act or omission on the part of Bharat Heavy Electricals Limited, Tiruchirappalli or any indulgence by Bharat Heavy Electricals Limited, Tiruchirappalli to the said Contractor or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

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

We, Bank Ltd, lastly undertake not to revoke this guarantee during its currency except with the previous consent of Bharat Heavy Electricals Limited, Tiruchirappalli in writing.

In witness whereof we..... (indicate the name of Bank) have hereunto set out Bank Seal the..... day month 200

The contact details of the Issuing Bank such as Email ID, Phone No. and Fax No. should be indicated in the CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

Please note that issuance of the CEBG without meeting the above requirement will render the document invalid.

The Bank Guarantee bonds (BG) are to be submitted on non-judicial stamp paper of Rs. 100/- and should be only from any one of the below mentioned Banks in India.

LIST OF CONSORTIUM BANKS IN INDIA

(as on 15.12.2011)

List of Consortium Bank			
	Nationalised Bank		Nationalised Bank
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign bank
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private bank
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC
15	State Bank of Travancore	30	Kotak Mahindra Bank
16	UCO Bank	31	ICICI
17	Union Bank of India	32	Indusind Bank
18	United Bank of India	33	Yes Bank

(1) It should be typed in the **Rs. 100 value of stamp paper.**

(2) It should be **signed by TWO bank officials** with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT/MODERNISATION

ANNEXURE – E

PERFORMANCE BANK GUARANTEE BOND

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, Tiruchirappalli- 620014 (hereinafter called 'the Company') having entered into a contract withhereinafter called 'the said Supplier and under the terms and conditions of the Purchase Order No..... Dt Between BHEL, Tiruchy and as per the Purchase Order, the Supplier is to furnish a performance Bank guarantee for Rs. for the due performance of the equipment to be supplied under the above referred Purchase Order and for the fulfilment of all the terms and conditions of the Purchase Order, We(indicate the name of the bank) (herein after referred to as the bank) at the request of (Supplier) 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 Supplier of any of the terms and conditions contained in the said Purchase Order.

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 Supplier of any of the terms and conditions contained in the said Purchase Order or by the reason of the Supplier's 'failure to perform' the said Purchase Order. 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 Supplier 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 Supplier 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 Purchase Order and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Office / Department / Division of the Company certify that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Supplier and accordingly discharge 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 **and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith** 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 BHEL dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank(**any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) 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 Purchase Order or to extend time of performance by the said Supplier 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 Supplier and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Supplier or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Supplier 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.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Supplier.

8. It shall not be necessary for the Company to proceed against the Supplier 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 Supplier shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.

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

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

11. 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 200

The contact details of the Issuing Bank such as Email ID, Phone No. And Fax No. Should be indicated in the PBG Also please note that the PBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

Please note that issuance of the PBG without meeting the above requirement will render the document invalid.

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8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
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12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC
15	State Bank of Travancore	30	Kotak Mahindra Bank
16	UCO Bank	31	ICICI
17	Union Bank of India	32	Indusind Bank
18	United Bank of India	33	Yes Bank

(1) It should be typed in the **Rs. 100 value of stamp paper.**

(2) It should be **signed by TWO bank officials** with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

Annexure - I

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 on
date 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

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.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant