



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 7653

Fax : +91 431 252 00 31

Email : skaruna@bheltry.co.in

Web : www.bhel.com

TWO PART BID

Tender to be submitted in two Parts

Enquiry
Number:

2631600073

Enquiry
Date:

23.09.2016

Due date for submission
of quotation:

24.10.2016

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	Portable Tube Insert Scarfing Machine	01 No.

The Technical Specifications for the above items shall be as per the technical specification & commercial conditions enclosed with this cover sheet (to be downloaded from web site www.bhel.com or <http://tenders.gov.in>)

Important points to be taken care during submission of offer:-

1. Supply delivery period required is 4 months from the date of purchase order.
2. E&C period required is 3 weeks from the date of intimation by BHEL to vendor for deputation of their engineers E&C.
3. The EMD amount for this tender shall be Rs.40,000/-
4. The Compliance Form no. TRY/IMP/03 & TRY/IND/03A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
5. 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
MM / Capital Equipment
BHEL / Tiruchirappalli - 620 014.

**TECHNICAL SPECIFICATION FOR
PORTABLE PNEUMATIC TUBE INSERT SCARFING MACHINE
PART - A**

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) shall have atleast FIVE Years of Experience in the Design, Manufacture & Supply of "Special Purpose / Custom Built Pneumatically operated portable machines for metalworking".	
1.2	Only those vendors (OEMs), who have Manufactured, supplied and commissioned at least ONE Pneumatically operated Heavy duty portable tube chamfering machine similar to the machine specified under Part B, in the last Ten years [as on date of this tender opening(first date)] should quote.	
1.3	Vendor has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of Pneumatically operated Heavy duty portable tube chamfering machine specified in clause 1.2 supplied to them and such equipment is working satisfactorily for a minimum period of one year [as on date of this tender opening(first date)]. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
1.4	BHEL reserves the right to verify the information provided by the Vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	

2.0	INFORMATION TO BE PROVIDED BY VENDOR	
2.1	Vendor shall provide contact details (phone no & email id) including the address of his Agents / Service Centres in India.	
2.2	Details of Special Purpose / Custom Built Pneumatically operated portable machines for metalworking supplied to BHEL units, if any. (Year of commissioning, Application, Type)	
2.3	Number of "Special Purpose / Custom Built Pneumatically operated portable machines for metalworking" supplied and commissioned till date (to quote the equipment supplied during the last three years only)	
2.4	The BIDDER/VENDOR to furnish Reference List of Customers (max 10 customers) including Contact details (phone no & email id).	

Suggestive Format of Performance Certificate:

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

PERFORMANCE CERTIFICATE

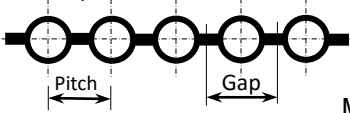
- | | | |
|---|--|---------------------------------|
| 1 | Supplier of the machine | |
| 2 | Make & Model of the M/C | |
| 3 | Month & Year of Commissioning | |
| 4 | Pneumatically Operated | |
| 5 | Application for which M/C is used | |
| 6 | a. Application
b. Machining capability | |
| 7 | Performance of the Machine
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 8 | After sales service
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 9 | Any Other remarks | |

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

Contact details of issuing authority
Name & Designation:
Office No/ Mobile no:
Email ID:

TECHNICAL SPECIFICATION FOR PORTABLE PNEUMATIC TUBE INSERT SCARFING MACHINE PART - B

S.No	Description	BHEL Specification	Vendors Offer
1.0	PURPOSE/ FUNCTION	The equipment is to be heavy duty portable machine used for the edge preparation of rough flame-cut TUBE Ends in between tubular panels/coils of High Pressure Boilers. The flame-cut ends will be of hardened and irregular in nature in the plane of cut.	
2.0	Tube end preparation - requirements		
2.1	Tube OD Chamfering	Outside Beveling on the tubes to get a 37.5° and 45.0° angle for welding. All the above styles shall have a land of 1.0 mm to 2.0 mm in the edge preparation.	
2.2	Facing	End Facing of Tubes, i.e. to get a square cut face with smooth finish.	
2.3	I.D. Boring	Internal straight boring in the I.D. of tubes to a depth of 25mm from the tube end face with a merging taper of 30 deg	
2.4	Accuracy	Face out : +/- 0.1 mm Beveling Angle : +/- 0.5 degree	
3.0	Job Specification		
3.1	Jobs	Tube ends of cut-outs made in Tubular Panels	
3.2	Tube ODx Th Range of Tubes	Tube OD: 38.1 x Th. 3.6 to 12.5 Tube OD: 41.3 x Th. 4.0 to 8.2 Tube OD: 42.4 x Th. 4.0 to 8.6 Tube OD: 44.5 x Th. 4.0 to 8.7 Tube OD :47.63 x Th 4.0 to 10.0 Tube OD: 51.0 x Th. 4.0 to 11.0 Tube OD: 54.0 x Th. 3.6 to 12.5 Tube OD: 57.0 x Th. 7.0 to 11.0 Tube OD: 63.5 x Th. 4.0 to 7.1 Tube OD: 69.85x Th 4.0.to 15.09 Tube OD: 76.1 x Th 4.0 to 8.0	
3.3	Wall Thickness	To be designed for 3.6 mm to 15 mm	
3.4	Tubular Panels	Tube OD 38.1mm,thk-3.6 to 12.5 and Pitch 50.8mm, Tube OD 41.3mm,thk-4 to 8.2,Pitch 54mm in tubular panels.(Pitch: between centre of tubes)  Minimum gap : 61 mm Minimum pitch : 50.8 mm	

S.No	Description	BHEL Specification	Vendor's Offer
3.5	Material	i) CARBON STEEL : SA 192, SA 209 Gr. T1, SA 210 Gr.A1/ Gr.C (ASTM) ii) ALLOY STEEL: SA 213 Gr.T2, T11, T12, T22, T91,T92 (ASTM) iii) STAINLESS STEEL: SA 213 304H, 316L, 347H (ASTM)	
3.6	Tube End Condition	The tube ends of tubular panels are flame cut ends that will be of irregular and hardened in nature.	
3.7	Width at clamping area	Equipment shall have uniform width from bottom of the clamping jaw to spindle top. The width shall not exceed 60 mm. The width to be suitable enough to insert within the minimum gap for performing tube end scarfing. Vendor to specify the width in the offered machine.	
4.0	Cutting Tools, Tool Holders& Job Clamp Sizes		
4.1	O D Clamping Sizes (11 sizes)	The machine shall be capable of clamping tubes with OD 38.1mm/41.3mm /42.4mm / 44.5mm / 47.63mm/51.0mm/54.0mm/57 mm /63.5mm/69.85/76.1mm (Total : 11 sizes) Vendor to provide 1 Set for each equipment.	
4.2	Cutting Tool	HSS Tool Bits (HSS3,HSS with COBALT inclusion)Tools should be suitable for machining gas cut ends of alloy steel tubes with maximum wall thickness 15 mm. Cutting speed 18 to 30 m/min	
4.3	Tool Bits configuration	a) 37.5° for O.D bevelling b) I.D straight boring for a depth of min. 25 mm from tube end face with merging taper of 30°	
4.4	Cutting Tool Bits Sample drgs.	The cutting tool bits to be offered as per the drawings given below: a) 30-T-36-30020-2-0 – 37½ deg chamfer –Qty:4 Nos b) 20-T-31-28650-rev 07- Four lipped tool (D=25.3)–Qty:4 Nos	
4.5	Tube Holding clamps	a) 40-T-50-25962-0 – Top Clamp-1 No b) 20-T-50-22846-4 – V Block- 1 set	
4.6	Tool Holders	a) 20-T-48-28787-3-0 for chamfering 37 ½ deg- Qty:1 No b) 20-T-48-27249 for four lipped tool-Qty:1 No	
4.7	Cutting Tools	Tool Holders, Tool Bits for Cutting Operations mentioned under 4.1, 4.4, 4.5, and 4.6 to be offered Item wise	

S.No	Description	BHEL Specification	Vendor's Offer
5.0	Machine Output Ratings:		
5.1	Spindle cutting Speed	Spindle RPM preferably around 75 to 170 rpm for maximum power at an air inlet pressure of 60-70 psi. Vendor to specify	
5.2	Spindle Stroke	Minimum 25 mm. Spindle should be wobble free at maximum stroke position during working.	
5.3	Spindle Torque	Torque shall be sufficient to cut the above materials in gas cutting edges at an air inlet pressure of 60-70 psi. Vendor to specify	
5.4	Noise Level	Suitable silencers and mufflers to be provided to minimize the noise level.	
5.5	Productivity	Equipment to be capable of giving the productivity as per clause 14.3. vendor to confirm	
6.0	Machine Configuration:		
6.1	Machine construction	The equipment shall be of compact and robust construction with high output air-motor, to deliver a high cutting torque for a continuous duty, to meet the specific job application.	
6.2	Machine Operation	Pneumatically Operated	
6.3	Compressed Air Pressure	60 to 70 psi	
6.4	Machine Body	Steel Fabricated body	
6.5	All pneumatic piping& fittings	Metallic Pipes & fittings. Vendor to specify	
6.6	Lifting Hook	A suitably designed Lifting Hook shall be provided at the top of the machine, for handling by EOT Crane and ensure equilibrium of machine geometry.	
6.7	Tool Feed	Manual smooth tool feeding through a Hand Wheel without reverse load/Back force. The operator should be able to give feed effortlessly. Preferred tool advancement is 0.4mm or less per revolution of the feed wheel.	
6.8	Job/Tube Clamping	Clamping of tubes shall be on O.D by pneumatic clamping and has to be actuated with a separate locking Lever. The clamping to be rigid enough to hold the tube without slipping while machining. The air pressure shall be at 60 to 70 psi. Vendor to specify the clamping force.	

S.No	Description	BHEL Specification	Vendor's Offer
6.9	Tube clamps	Suitable base 'V' clamps for OD clamping for varying tube sizes given under SI.No. 4.1 as per Drg. No. 40-T-50-25962-0 – Top Clamp Drg. No. 20-T-50-22846-4 – V Block	
6.10	Tube Centring	To be ensured by pneumatic clamping system by means of suitably hardened clamp blocks. Hardness level to be mentioned in the offer.	
6.11	Machine Spindle	Hardened and Ground. Must be able to withstand fatigue due to varying and reversal of loads. Vendor to confirm and Specify	
6.12	Location of Parts	Location of Air Motor, Silencer, FRL Unit, etc. shall be such that they do not interfere with the job surface, when the equipment is engaged. The arrangement shall be convenient for the operator.	
6.13	Silencers& Mufflers	The location of mufflers & silencers should be properly routed and positioned so that it does not hinder the operation. Vendor should submit the Line diagram for the same.	
6.14	Internal Construction of the equipment	All gears, Worm wheels, worm, bolts etc shall be made of high tensile strength to withstand the forces during operation. The assembly shall give a smooth performance. Vendor to provide details of the internal parts of the equipment.	
6.15	Weight of single unit	Around 200-250 kg.	
7.0	Air Motor:		
7.1	Air Motor	Geared Multi Vane Air Motor	
7.2	Air Motor Power at Output shaft	Air motor power not less than 4.0 kW at an air inlet pressure of 60-70 psi through a 3/4" air hose at the output shaft. Vendor to confirm.	
7.3	RPM	RPM at max. power of output shaft to be specified by Vendor.	
7.4	Stall Torque	Vendor to specify	
7.5	Power / Torque Characteristics	Air Motor Power / Torque characteristics w.r.t rpm / air pressure to be provided with the offer.	
7.6	Gear Ratio	Reduction Gear Ratio – Vendor to specify	

S.No	Description	BHEL Specification	Vendor's Offer
7.7	Lubrication oil consumption rate for Air motor	Lubrication oil consumption rate of the air motor should be minimum. Vendor to specify drops per minute. Vendor to also specify the lubrication oil specification.	
7.8	Speed Regulation	Air motor shall be provided with an Air regulator to select suitable spindle speed.	
8.0	Pneumatic Circuit:		
8.1	Air Connection	Air connection through 3/4 inch hoses at a pressure of 60-70 psi shall be provided by BHEL. The equipment to be suitably designed.	
8.2	Air control valves	Control valve for air motor shall be separate from Control valve for clamping cylinder. Pneumatic circuit line diagram to be provided.	
8.3	Air Consumption	Air consumption pattern shall be specified.	
8.4	Filter, Regulator & Lubricator (FRL Unit)	A suitable capacity Air Filter, Regulator & Lubricator unit with metallic protective casing shall be mounted on the equipment.	
8.5	Air Couplings	Quick dis-connect couplings (size 3/4 inch) will be provided by BHEL with the equipment, for air hose connection.	
9.0	Makes of components:		
9.1	Geared Multi Vane Air Motor	Ingersoll Rand / San-ei Seiki Seisakushu Co. Ltd / Atlas Copco. Vendor to provide details.	
9.2	Bearings	SKF/INA FAG/IKO/TIMKEN/NTN	
9.3	All pneumatic components	FESTO/SMC	
9.4	F R L Unit	FESTO/SMC	
9.5	Silencer & Mufflers	FESTO/SMC	
9.6	Pneumatic Valves	FESTO/SMC	
9.7	SEALS	SKF/PARKER/MERKEL/HALLITE/SMC/FESTO	
9.8	Pneumatic Hoses	Poly Urethane - FESTO/SMC	
9.9	General	Makes of any other unspecified bought out items shall be specified by Vendor and such makes shall be acceptable to BHEL	

S.No	Description	BHEL Specification	Vendor's Offer
10.0	Painting:		
10.1	Paint	Poly Urethane	
10.2	Colour	Apple Green Colour, RAL 6011	
11.0	Spares:		
11.1	Main Equipment	Complete List of Spares including Air Motor Bearings, Seals, Bushes, Set of gears, Spindle, Air Cylinder, Air Valve for Clamping & Spindle rotation, Tool holders etc. for two years of trouble free maintenance may be listed item wise with quantity.	
12.0	Operation and Maintenance Manuals:		
12.1	O & M Manual Details	Manuals shall contain the following details: a) Blow-up details of assembly / dismantling, part numbers with part description (detailed sub drawings of machine parts) for Maintenance, Safety Instructions while using, b) Operating Sequence for using the equipment. Trouble Shooting Chart. c) Catalogue of all bought out items. d) Lubrication schedule. e) Preventive Maintenance check list. f) Tool holder drawings. g) Tool insert details h) Clamp bases drawings	
12.2	No of Copies of Manuals	One Hard copy and One soft copy in CD/DVD for each machine	
12.3	Language	English	
13.0	Pre-dispatch Inspection:		
13.1	Inspection at Vendor's works	Equipment shall be offered for inspection before dispatch at Supplier's works. The inspection will be carried out by BHEL. The performance of the machine, makes, spares etc will be checked by BHEL during PDI. Tubes will be provided by BHEL for PDI. Supplier needs to arrange the transit for PDI material (tubes & Scrap panels)	
14.0	Commissioning:		
14.1	Commissioning at BHEL works	Supplier's representative shall be deputed for commissioning and performance prove-out of the equipment at BHEL works.	

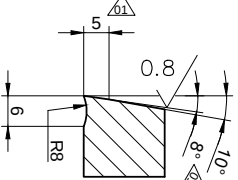
S.No	Description	BHEL Specification	Vendor's Offer
14.2	Prove out Trials	Capability: Tube OD: 51mm x Th. 11mm – Alloy steel (T22) with gas cut edges – OD chamfer.	
14.3	Prove out Trials	Productivity Prove out: Tube Size: OD 38.1mm x 8 mm thickness Tube Material: T11 or T22 Tube edges : Smooth Gas cut edges OD chamfering/ bevelling style: 37.5 deg Stock to be removed: 8mm No.of tubes to be proved in 60 minutes: 25 tubes	
15.0	Training:		
15.1	Training	Training on Operation and Maintenance of the equipment shall be provided	
16.0	Guarantee:		
16.1	Guarantee	The equipment shall be guaranteed for a minimum period of 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier	
17.0	General:		
17.1	Technical Details	All technical details of the bought out items, circuit diagrams, general arrangement drawings to be provided with the offer.	
17.2	Drawing approval	GA Drawings to be submitted by supplier for approval prior to manufacturing with in 30 days from the date of ordering and BHEL will provide approval with in 15 days from the date of submission, in case of on order.	

Enclosures:

1. 30-T-36-30020-2-0 – 37½ deg chamfer tool
2. 20-T-31-28650-rev 07- Four lipped tool
3. 40-T-50-25962-0 – Top Clamp
4. 20-T-50-22846-4 – V Block
5. 20-T-48-28787-3-0 Tool holder for chamfering 37 ½ deg
6. 20-T-48-27249 Tool holder for four lipped tool

CUTTING EDGE SHALL BE PROVIDED ON REAR END ALSO AFTER ESTABLISHING THIS TOOL IN REGULAR PRODUCTION

TOLERANCE FOR UNTOLERANCED DIMENSIONS	
UPTO 6 MM	= ±0.1 MM
> 6 UPTO 120 MM	= ±0.2 MM
MORE THAN 120 MM	= ±0.5 MM
ANGULAR TOLERANCE	= ±0.5 Deg
CHAMFER	= ±0.5 Deg



	16X16X65	IS 1570	T75 W18	0.15		
NO. OF PIECES	DESCRIPTION	SIM. PRO./SEC. NO.	INT. MAT./SEC. NO.	FINAL MATERIAL	SCRAP SORT	NET WT(KG)
COMP.DRG.NO	Ø44.5-Ø63.5					GROSS WT(KG)
COMP. DES.	TUBES PANELS					DRAWING NO
GROUP	11	W.C- 4395	TOOL NO:-36-65812-00 ANGLE : 37.5° USE WITH : 48.14156.00 & 48.14157.00			

BHARAT HEAVY ELECTRICALS LTD.,			
BOILER PLANT UNIT, TIRUCHIRAPALLI-14			

FIRST ANGLE.	SCALE	DRAWN	K.V	TOTAL NET WT.KG
		CHECKED	N.E	
	1:1	APPROVED	G.S	
		DATE	06/02/2013	NEW/OLD DRG NO.

ALL DIMENSIONS IN MILLIMETRES.	
TITLE.	

CAUTION	
THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD BOILER PLANT UNIT,TIRUCHI-14 AND SHALL NOT BE USED WITHOUT THEIR PERMISSION. NO LIABILITY FOR ANY LOSS OR DAMAGE FROM OR PART THEREOF FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SENT TO YOU.	

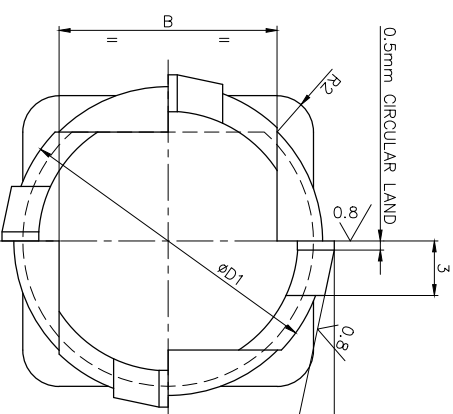
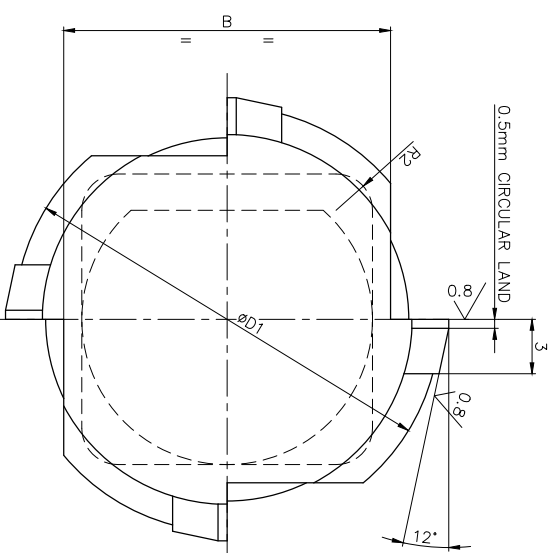
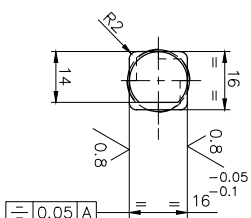
EDGE PREPARATION TOOL 37°30'(INSERT SCARFING)	
DRAWING NO.	REVISION
30-T-36-30020 02	

DRAWING NO.

CHAMFER SHARP EDGES TO 1 x 45°

TOLERANCE FOR UNTOLERANCED DIMENSIONS	
UPTO 6 MM	= ± 0.1 MM
> 6 UPTO 120 MM	= ± 0.2 MM
MORE THAN 120 MM	= ± 0.5 MM
ANGULAR TOLERANCE	= ± 0.5 DEGR
CHAMFER	= ± 0.5 DEGR

1696	-0.006
	-0.017



(SCALE 10:1)

FOR DIMNS 'B' > 16

[illegible]

CAUTION

FILE

DRAWING NO.	REVISION
4 LIPPED TOOL FOR END & INSERT SCARPING	

THE INFORMATION CONTAINED IN THIS
DRAWING IS THE PROPERTY OF
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BOILER PLANT UNIT, THIRUCHY-1

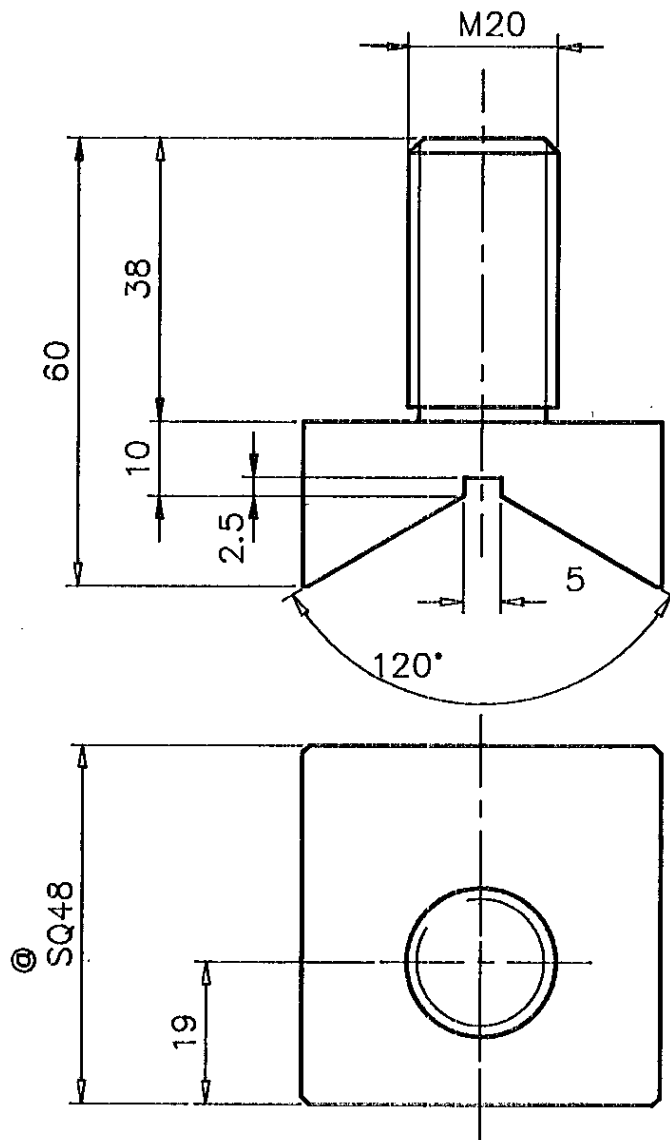
293-090

20-

20

HARDEN & TEMPER TO 28HRc
CHAMFER SHARP EDGES.

3.2/
✓



TOLERANCE FOR UNTOLERANCED DIMENSIONS	
UPTO 6 MM	= ±0.1 MM
> 6 UPTO 120 MM	= ±0.2 MM
MORE THAN 120 MM	= ±0.5 MM
ANGULAR TOLERANCE	= ±0.5 DEG
CHAMFER	= 10:1 (MIN)

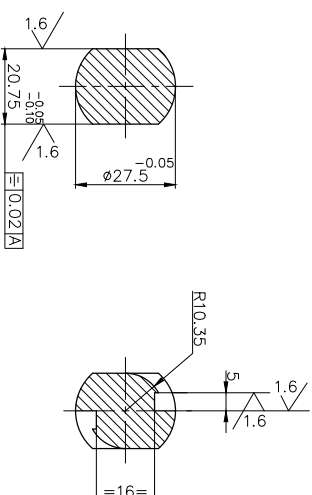
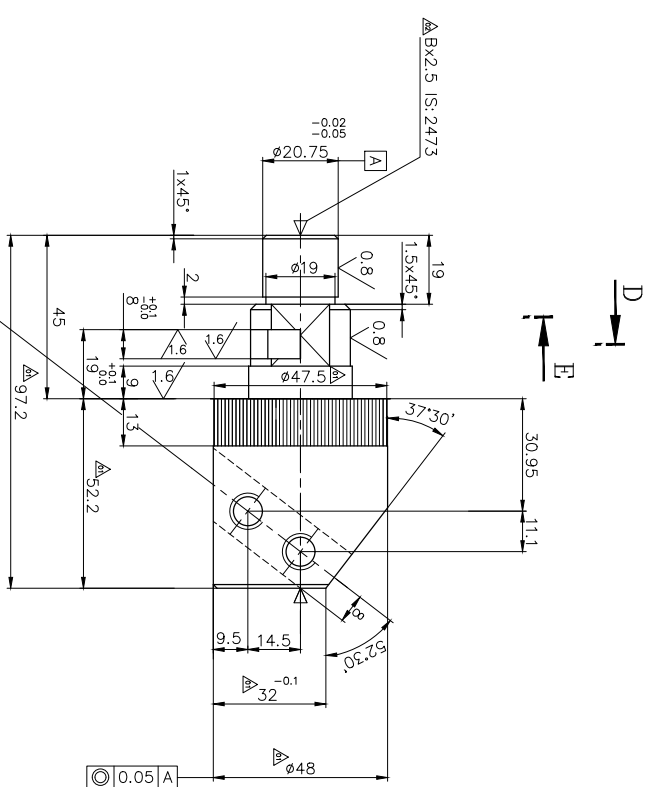
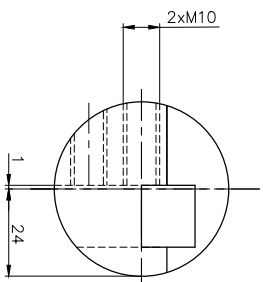
COMP.DRG.NO		T00L N0- 50-10330-00	
COMP. DES.		PIPES	
TYPE&GROUP		80 W.C- 4393	
48x48x60		IS 1875 CL 4	
0.5			
NO. OF PIECES	NAME-DIMENSIONS	SEMI-PRODUCT	FINAL MATERIAL
INITIAL MATERIAL	SCRAP SORT	NET WT (KG)	GROSS WT (KG)
DRAWING NO.		ITEM NO.	
REMARKS		TOTAL NET WT(KG)	
SCALE	DRAWN	GSM	ALTERATIONS
1:1	CHECKED	KSB	DATE
	APPROVED	VC	SIGNATURE
	STDS. OFFICER		ALTERATION INDEX
	DATE	100393	
TRANS. COPY NO.			
TYPE		GROUP	
TITLE		OLD DRG.	
CLAMP		NEW DRG.	
DRAWING No.		40-T-50-25962	



33-116

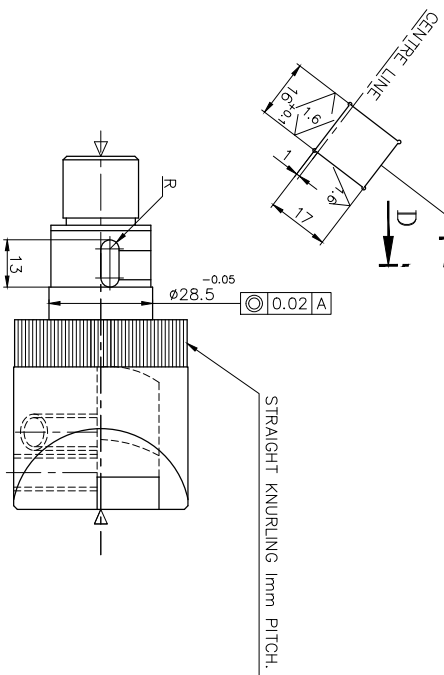
△ HARDEN AND TEMPER TO 45-48 HRC

TOLERANCE FOR UNTOLERANCED DIMENSIONS	
UP TO 6 MM	= ± 0.1 MM
> 6 UP TO 120 MM	= ± 0.2 MM
MORE THAN 120 MM	= ± 0.5 MM
ANGULAR TOLERANCE	= ± 0.5 Deg
CHAMFER	= ± 0.5 Deg



SECTION-EE

SECTION-DD

[illegible]

BHARAT HEAVY ELECTRICALS LTD.,
BOILER PLANT UNIT, TIRUCHIRAPALLI-14

	SCALE	1:1
FIRST ANGLE	DRAWN	R.R.KUMAR
	CHECKED	N.EELINGOVAN
	APPROVED	G.SUBRAMANIAN
	DATE	16.10.2012
ALL DIMENSIONS IN MILLIMETRES.	NEW/DWG NO.	

CAUTION

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DRAWING IS THE PROPERTY OF



BHARAT HEAVY ELECTRICALS LTD
BOILER PLANT UNIT, TIRUCHY-14
 AND SHALL NOT BE USED WITHOUT THEIR
 EXPRESS WRITTEN PERMISSION IN ANY
 FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL,
 INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION
 STORAGE AND RETRIEVAL SYSTEM.

DRAWING NO.	REVISION
20-T-48-28787	03

HARDEN AND TEMPER TO 28^{±1} HRC.

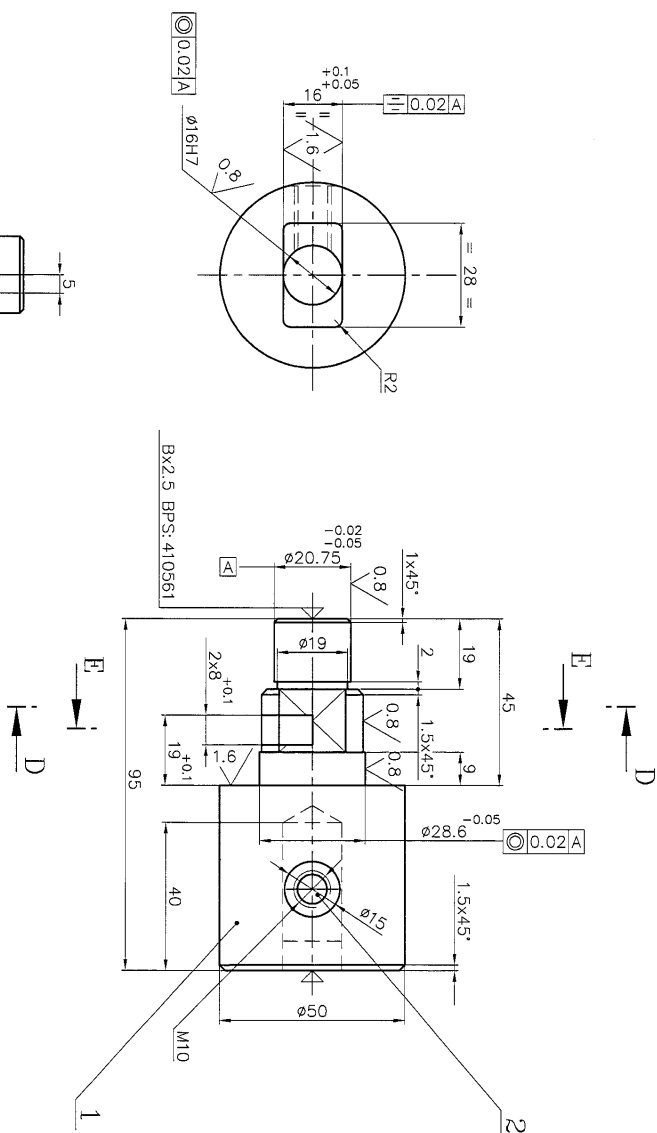
CHAMFER SHARP EDGES TO 1x45°

3.2/1.6/0.8

16H7
+0.018
0.0

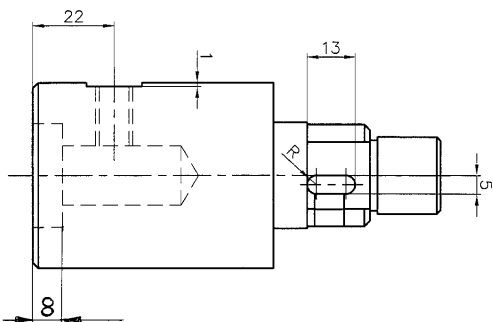
TOLERANCE FOR
UNTOLERANCED DIMENSIONS

UP TO 6 MM	±0.1 MM
> 6 UP TO 120 MM	±0.2 MM
MORE THAN 120 MM	±0.5 MM
ANGULAR TOLERANCE	±0.5 Deg
CHAMFER	±0.5 Deg



SECTION-DD

SECTION-EE



1	HEX SOC SET SCR M10x20	IS6094-A-45H							2
1	Ø50xØ5	IS 1875 C4	1.0						1
COMP. DRG. NO.	2-06-644-08658								
COMP. DESC.	LOWER INTER REAR CORNER WNN PANEL								
GROUP:	06	WC:	5991						

BHARAT HEAVY ELECTRICALS LTD.,
BOILER PLANT UNIT,
TIRUCHIRAPPALLI-14

FIRST ANGLE	SCALE	DRAWN	TOTAL NET WT/KG	1.0
1:1		M. Elangovan		
ALL DIMENSIONS IN MILLIMETRES.		CHECKED		
		APPROVED		
		DATE		
		31.12.2002.		
		KM/OLD DRG NO.		
		TITLE		

CAUTION

BE EXTREMELY CAREFUL IN THIS
DRAWING IS THE PROPERTY OF
BHARAT HEAVY ELECTRICALS LTD
BOILER PLANT UNIT, TIRUCHIR-14
DO NOT REPRODUCE OR COPY
THIS DRAWING WITHOUT PERMISSION IN WRITING
FROM THE PROJECT ENGINEER IN CHARGE
PUNJAB TO THE PROJECT ENGINEER IN CHARGE
TO THE PROJECT ENGINEER IN CHARGE

TOOL/HOLD
DRAWING NO. 20-T-48-27249

REVISION



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.

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 at 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



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.

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.

CHECK LIST NO: TRY/IMP/03	
BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI	
CAPITAL EQUIPMENT /MATERIALS MANAGEMENT	
<u>CHECK LIST 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 check list 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 and PBG)	
Description of the Equipment: Portable Pneumatic Tube Insert Scarfing Machine (01 No.)	
BHEL Tender No. & Date: 2631600073 dt.23.09.2016	
PART I of Tender: EMD/SWIFT message Copy + Technical Bid + Unpriced Bid + this check list	
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
EMD is to be submitted in cash (as permissible under Income Tax Act), Pay Order or Demand Draft only. In case of foreign bidders EMD amount shall be submitted through their Indian agent or through e-payment (as per the details given below).	
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 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 Order Acknowledgement. EMD shall not carry any interest.	Accepted
4.2 The EMD amount for this Tender will be (INR) :	40,000
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:	

CHECK LIST NO: TRY/IMP/03		
	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: 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 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.	Accepted
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 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.	
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. 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%) payable 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)	

CHECK LIST NO: TRY/IMP/03		
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.	
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 drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	4 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.	3 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	PERFORMANCE BANK GUARANTEE (PBG):	

CHECK LIST NO: TRY/IMP/03		
	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
	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 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 PBG are liable for rejection.	
12.0	LIQUIDATED DAMAGES (LD):	Accepted
	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.	
	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 .	
13.0	SHORT SUPPLY / WARRANTY REPLACEMENT:	Accepted
	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 .	
14.0	RISK PURCHASE:	Accepted
	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.	
15.0	GUARANTEE:	Accepted
	Vendors shall provide a guarantee for 12 months from the date of commissioning of the equipment or 18 months from the date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	
16.0	REVERSE AUCTION (RA):	

CHECK LIST NO: TRY/IMP/03		
	BHEL reserves their right to conduct on-line internet Reverse Auction for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA have been given in the 'General guidelines & instructions to bidders' enclosed as a part of NIT / Enquiry. Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
17.0	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) :	
18.0	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:	
	Free Period for Container shipments:	
	Vendors should indicate the mode of shipment Viz. break-bulk basis or container basis. 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 in case shipments are made using containers.	Accepted
	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 / Enquiry and confirm that our offer has been made in line with the same and the confirmations given in the above checklist 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****CHECK LIST FOR ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY
INDIGENOUS VENDORS**

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list 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 and PBG)

Description of the Equipment: Portable Pneumatic Tube Insert Scarfing Machine (01 No.)

BHEL Tender No. & Date: 2631600073 dt.23.09.2016

PART I of Tender: EMD/SWIFT message Copy + Technical Bid + Unpriced Bid + this check list

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.

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).

Accepted

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.

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

Accepted

EMD can also be submitted in cash (as permissible under Income Tax Act), Pay Order or Demand Draft. 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 Order Acknowledgement.

EMD shall not carry any interest.

Accepted

3.2 The EMD amount for this Tender will be (INR) :

40,000

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, Tiruchy basis only	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 drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	4 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.	3 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
9.0	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
	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 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 PBG are liable for rejection.	
10.0	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.	
11.0	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
12.0	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
13.0	GUARANTEE:	
	Vendors shall provide a guarantee for 12 months from the date of commissioning of the equipment or 18 months from the date of supply, whichever is earlier. The date of LWB shall be taken as the date of supply. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	Accepted
14.0	REVERSE AUCTION (RA):	
	BHEL reserves their right to conduct on-line internet Reverse Auction for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA have been given in the 'General guidelines & instructions to bidders' enclosed as a part of NIT / Enquiry. Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
15.0	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 / Enquiry and confirm that our offer has been made in line with the same and the confirmations given in the above checklist 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)	