



An ISO 9001  
Company

## Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

<b>ENQUIRY</b>	Phone: +91 431 257 7653 Fax : +91 431 252 0031 Email : <a href="mailto:skaruna@bheltry.co.in">skaruna@bheltry.co.in</a> Web : <a href="http://www.bhel.com">www.bhel.com</a>
<b>NOTICE INVITING TENDER</b>	

<b>TWO PART BID</b>	<b>Enquiry Number:</b>	<b>Enquiry Date:</b>	<b>Due date for submission of quotation:</b>
Tender to be submitted in two parts.	<b>2631500043</b>	<b>21.12.2015</b>	<b>18.01.2016</b>

You are requested to quote the Enquiry number, date and due date in all your correspondences. 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	Delivery
10	Fume Exhaust Fan & Fresh Air Fan with ducting as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	11 Nos.	28.06.2016

### Important points to be taken care during submission of offer

1. Compliance Form to be duly filled and enclosed along with your offer, failing which the offer will not be considered for evaluation.
2. 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 including bank guarantee formats and list of consortium banks, commercial compliance form 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 Enquiry reference "2631500043".

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

*Kb Singh*

**KUMAR GAUTAM SINGH**  
Senior Engineer  
MM / Capital Equipment  
BHEL, TRICHY - 620 014.

**PART-A****QUALIFYING CRITERIA FOR  
FUME EXTRACTION SYSTEM AND FRESH AIR SYSTEM**

<b>S No</b>	<b>DESCRIPTION</b>	<b>VENDOR TO SPECIFY DETAILS</b>
<b>1.0</b>	<b>QUALIFYING CRITERIA</b>	
<b>1.1</b>	The BIDDER / VENDOR shall have a minimum of TEN Years of Continuous Experience in the Design, Manufacture & Supply of fume extraction system / fresh air systems with ducting for industrial use. Vendor may indicate the actual no. of years of experience in the field	
<b>1.2</b>	Only those vendors who have supplied and commissioned <b>at least two numbers</b> of fume extraction system / fresh air systems with ducting for industrial use having blower capacity of 15000 cmh or more should quote.	
<b>1.3</b>	Vendor has to submit at least ONE Performance Certificate from their customers (w.r.t Clause 1.2), for satisfactory performance of fume extraction system / fresh air system systems with ducting for industrial use having blower capacity of 15000 cmh or more, for a minimum period of one year (as on original date of opening tender). For obtaining the Performance certificate, a suggestive format is provided.	
<b>1.4</b>	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected	

<b>2.0</b>	<b>INFORMATION TO BE PROVIDED BY VENDOR</b>	<b>VENDOR TO SPECIFY DETAILS</b>
<b>2.1</b>	Number of similar equipment supplied and commissioned till date by the vendor.	
<b>2.2</b>	The BIDDER/VENDOR to furnish Reference List of Customers with contact details	
<b>2.3</b>	Contact details(phone no & email id) including the Address of Agents / Service Centres in India to be provided	

Suggestive Format of Performance Certificate:

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

**PERFORMANCE CERTIFICATE**

- 1 Supplier of the fume extraction system / fresh air systems with ducting:
- 2 Make & Model of the fume extraction system/ fresh air systems:
- 3 Month & Year of Commissioning:
4. Blower capacity of Fume Extraction system/Fresh Air system:
- 5 Performance of the fume extraction system / fresh air systems Satisfactory / Not Satisfactory  
(Strike off whichever is not applicable)
- 6 After sales service Satisfactory / Not Satisfactory  
(Strike off whichever is not applicable)
- 7 Any Other remarks

Signature & Seal of the Authority  
Issuing the Performance Certificate

Date:

Name:

Designation:

Email:

Cell no:

**PART-B****SPECIFICATION FOR FUME EXHAUST SYSTEM AND FRESH AIR SYSTEM****TOTAL QTY-11 SETS**

**Purpose:** The purpose of the system is to exhaust out the fumes generated out of the welding and other manufacturing process in the shop floor and ensure supply of fresh air circulation by fresh air system inside the shop floor through separate ducting systems to create a good ventilated conductive working atmosphere in the shop floor.

<b>A.FUME EXHAUST SYSTEM : 11 nos.</b>		
Fume Exhaust System for roof height in High Bays-22.4 metres : 5 Sets (Blower capacity around 15000 cmh)		
Fume Exhaust System for roof height in Low Bays- 15.6 metres : 6 Sets (Blower capacity around 10000 cmh)		
Details of the locations attached as Annexure - I		
SL NO	DESCRIPTION	VENDOR'S OFFER (With technical details)
<b>1.0</b>	<b>PURPOSE &amp; MEDIUM</b>	
1.1	<b>Purpose:</b> The purpose of the system is to exhaust out the fumes generated out of the welding and other manufacturing process in the shop floor. Vendor to Confirm	
1.2	MEDIUM to be exhausted: All types of Welding fumes, Flying dust, Machine coolant odour, and all types of unwanted gaseous odours. Vendor to Confirm	
<b>2.0</b>	<b>CONSTRUCTION</b>	
2.1.0	<b>Each of the industrial exhaust fan assembly shall consist of the following items in assembled condition.</b>	
2.1.1	<ul style="list-style-type: none"> <li>a. Exhaust Fan and casing with impellor</li> <li>b. Motor and starter</li> <li>c. Direct driven type</li> <li>d. Suction duct with multiple vents</li> <li>e. Exhaust duct up to roof height</li> <li>f. Base frame with lifting handles</li> </ul> Vendor to confirm that the above items will be available in each Fume exhaust system.	
<b>3.0</b>	<b>FUME EXHAUST FAN</b>	
3.1	Type of Fan: Centrifugal. Vendor to Confirm	
3.2	Application: Induced Draught. Vendor to Confirm	
3.3	Impeller pattern : backward curved/ forward curved Vendor to confirm and specify the pattern type	
3.4	For High Bays (22.4m) as indicated in Annexure-I (5 nos.) Volume/ flow rate: (Around 15,000 cmh). Vendor to provide design details and calculations	

SL NO	DESCRIPTION	VENDOR'S OFFER (With technical details)
3.5	For Low Bays (15.6m) as indicated in Annexure-I (6 nos.) Volume/ flow rate: (Around 10,000 cmh). Vendor to provide design details and calculations	
3.6	Pressure: (According to the ducting plan). Vendor to specify	
3.7	Impeller material construction - Mild Steel. Vendor to Confirm	
3.8	Casing material - Mild steel. Vendor to Confirm	
3.9	Casing thickness - 14 Gauge minimum. Vendor to Confirm and specify the exact thickness	
3.10	Direct driven type. Vendor to Confirm	
3.11	Make: Almonard, Crompton greaves, C-Doctor, Patel and Flakt India or any other makes acceptable to BHEL. Vendor to Confirm and specify the make.	
4.0	<b>FAN MOTOR</b>	
4.1	Motor power Rating (for 10,000 cmh) in KW. Vendor to specify and provide calculations	
4.2	Motor RPM (for 10,000 cmh). Vendor to specify.	
4.3	Motor power Rating(for 15,000 cmh) in KW Vendor to specify and provide calculations	
4.4	Motor RPM (for 15,000 cmh). Vendor to specify.	
4.5	Supply Voltage 415V +/- 10%, 50HZ, 3 Phase AC (3 wire system without neutral). Vendor to confirm	
4.6	Motor insulation Class - F. Vendor to Confirm	
4.7	All Motors should be of EFF -1 as per IEC standard. Vendor to Confirm	
4.8	Make: Siemens, Crompton greaves, kirloskar, ABB, L&T, Mitshubishi, Toshiba, Baldor or any other makes acceptable to BHEL. Vendor to confirm and specify the make.	
4.9	Starter : DOL /Star delta starter. Vendor to confirm	
4.10	Motor starter – Siemens / L&T / Schneider/ABB/BCH or any other makes acceptable to BHEL. Vendor to confirm and specify the make.	
4.11	<b>All the Fans should comply with the following construction / performance parameters:</b>	
4.11.1	Full welding of impeller blades with the rotating base plate. Vendor to confirm	
4.11.2	Availability of sufficient strengthening stiffeners in the body / support structure of the blower. Vendor to confirm	
4.11.3	Noise level: Max. 85 ± 3 dBA @ 1.5 meter distance. Vendor to confirm	
4.11.4	Vibration level: As per ISO-14694. Up to 4.8 mm/sec (RMS). Vendor to confirm	
4.11.5	Dynamic balancing of impeller at rated speed. Vendor to confirm	
5.0	<b>Exhaust and Suction Duct for Exhaust Systems</b>	
5.1	All ducting materials are vendor's scope. All ducting fabrications to be done at vendor's works as per the approved drawings.	

<b>B.FRESH AIR SYSTEM : 11 nos.</b>		
Fresh Air System for roof height in High Bays-22.4 metres : 4 Sets (Blower capacity around 15000 cmh)		
Fresh Air System for height of -10m : 1 Set (Blower capacity around 15000 cmh)		
Fresh Air System for roof height in Low Bays- 15.6 metres : 6 Sets (Blower capacity around 10000 cmh)		
Details of the locations attached as Annexure - I		
<b>SL NO</b>	<b>DESCRIPTION</b>	<b>VENDOR'S OFFER</b> (With technical details)
6.0	<b>PURPOSE &amp; MEDIUM</b>	
6.1	<b>Purpose:</b> The purpose of the system is to supply fresh air from outside atmosphere to inside of the shop floor through separate duct and ensure conducive and ventilated working environment. Vendor to confirm	
6.2	Medium: Air. Vendor to confirm	
7.0	<b>CONSTRUCTION</b>	
7.1.0	<b>Each of the fresh air supply system shall be supplied with the following components in assembled condition.</b>	
7.1.1	<ul style="list-style-type: none"> <li>a) Blower fan and casing with impeller</li> <li>b) Motor and starter</li> <li>c) Discharge hood (duct with multi vent)</li> <li>d) Direct driven type</li> <li>e) Suction duct up to roof height</li> <li>f) Base frame with lifting handles</li> </ul> Vendor to confirm that the above items will be available in each Industrial Fresh Air fan assembly.	
8.0	<b>FRESH AIR FANS</b>	
8.1	For areas from Sl. No.1 to 5 in Annexure-1 (5 nos.) Volume/ flow rate: (Around 15,000 cmh). Vendor to specify with design details	
8.2	For areas from Sl. No.6 to 11 in Annexure-1 (6 nos.) Volume/ flow rate: (Around 10,000 cmh). Vendor to specify with design details	
8.3	Pressure :( According to the Ducting plan). Vendor to specify.	
8.4	Type: Centrifugal. Vendor to confirm	
8.5	Impeller pattern : backward curved/ forward curved Vendor to confirm and specify the pattern type	
8.6	Impellor material construction - Mild Steel. Vendor to confirm	
8.7	Casing material thickness - 14 G min. Vendor to Confirm and specify the exact thickness	
8.8	Casing material - Mild steel. Vendor to confirm	
8.9	Make: Almonard, Crompton greaves, C-Doctor, Patel and Flakt India or any other makes acceptable to BHEL. Vendor to Confirm and specify the make.	
9.0	<b>FRESH AIR FAN MOTOR</b>	
9.1	Motor power Rating(for 15,000 cmh) in KW Vendor to specify and provide calculations	
9.2	Motor RPM (for 15,000 cmh). Vendor to specify.	
9.3	Motor power Rating (for 10,000 cmh) in KW Vendor to specify and provide calculations	

SL NO	DESCRIPTION	VENDOR'S OFFER (With technical details)
9.4	Motor RPM (for 10,000 cmh) . Vendor to specify.	
9.5	Supply Voltage 415V +/- 10%, 50HZ +/-3 Hz, 3 Phase AC (3 wire system without neutral). Vendor to confirm	
9.6	Motor Insulation Class F. Vendor to confirm	
9.7	All Motors should be of EFF -1 as per IEC standard. Vendor to confirm	
9.8	Make: Siemens, Crompton Greaves, kirloskar, L&T, ABB, Mitshubishi, toshiba, Baldor or any other makes acceptable to BHEL. Vendor to confirm and specify the make.	
9.9	Starter : DOL /Star delta starter. Vendor to confirm	
9.10	Motor starter – Siemens / L&T / Schneider/ABB/BCH or any other makes acceptable to BHEL. Vendor to confirm and specify the make.	
9.11	<b>All the Fans should comply with the following construction / performance parameters:</b>	
9.11.1	Full welding of impeller blades with the rotating base plate. Vendor to confirm	
9.11.2	Availability of sufficient strengthening stiffeners in the body / support structure of the blower. Vendor to confirm	
9.11.3	Noise level: Max. 85 ± 3 dBA @ 1.5 meter distance. Vendor to confirm	
9.11.4	Vibration level: As per ISO-14694. Up to 4.8 mm/sec (RMS). Vendor to confirm	
9.11.5	Dynamic balancing of impeller at rated speed. Vendor to confirm	
<b>10.0</b>	<b>AIR GRILLS</b>	
10.1	Supply air Grills with double deflection arrangement. Vendor to confirm	
10.2	Material of construction: powder coated aluminium louvers. Vendor to confirm	
11.0	<b>Ducting for Fresh air Systems</b>	
11.1	All ducting materials are vendor's scope. All ducting fabrications to be done at vendor's works as per the approved drawings.	
<b>Common points to both Exhaust &amp; Fresh air systems :</b>		
<b>12.0</b>	<b>Manufacturing drawings approval</b>	
12.1	After placement of Purchase order, vendor has to submit all manufacturing drawings to BHEL within 30 days for approval before manufacture.BHEL will approve the same in 15 days. Vendor to confirm	
13.0	<b>PRE DISPATCH INSPECTION</b>	
13.1	Exhaust systems and fresh Air systems and its accessories to be offered for Inspection by BHEL for checking the outlook and performance before despatch at vendor's works. If required it shall be offered at blower supplier's works. Vendor to confirm	
14.0	<b>ERECTION AND COMMISSIONING</b>	
14.1	The Exhaust systems and fresh Air system has to be positioned on the identified shop floor columns at approximately 3 mtrs height from the floor level as per the instructions of the BHEL executive in-charge. Vendor to confirm	
14.2	All the manpower required for the above erection activities (Both mechanical and electrical cabling) are under the scope of the vendor. Vendor to confirm	
<b>SL NO</b>	<b>DESCRIPTION</b>	<b>VENDOR'S OFFER</b>

		(With technical details)
14.3	Design ,Manufacture ,supply and erection of a) Exhaust fans with complete ducting from 22G GI material required from the roof of the building to the delivery frame of the exhaust fans b) Fresh air fans with complete ducting from 22G GI material required from the roof of the building to the suction frame of the fresh air fan, are under the scope of the vendor. Vendor to confirm	
14.4	All structural supports, required at the site for erecting and positioning the exhaust fans and Fresh air Fans has to be fabricated by the supplier after assessing the requirements. Vendor to confirm	
14.5	All fasteners, canvass cloth, gaskets, clamps, Hand tools and accessories, lifting tackles required for the erection activities are under the scope of the supplier. All the above equipment brought by the supplier should be properly entered at the security with pass. Vendor to confirm	
14.6	All the ducts should be installed with a weather bend at the top to avoid water entry. The height of the building is approximately 22.4 and 15.6 Mtrs from the ground. Vendor to confirm	
14.7	During commissioning the supplier has to prove the design parameters of the installed systems as per the order and specifications. Vendor to confirm	
14.8	Bellow (Industrial Quality) has to be connected between fans of Exhaust System and fresh air system with ducting (For each set). Vendor to confirm	
14.9	The Vendor has to supply and lay Inter connecting Electrical cable between starter and blower / fan motor which should be of copper, 6 sq.mm, 4 core or suitable rating acceptable to BHEL. Flexible metal cable protection hose to be provided. Double Earthing should be provided for all fan motors. Length of cable: 10 Mtrs (Approx) for each Installation has to laid by the supplier. Vendor to confirm	
14.10	Maintenance platform of size 1mx1m approximately with safety handrail support has to be fabricated by the supplier and to be installed at the suitable location near by the blower's assembly on the columns. Structural items will be provided by M/s BHEL at free of cost. Vendor to confirm	
14.11	Vendors should furnish the scope of civil work like Anchoring etc well in advance with details. Civil work like concrete foundation for installation of blowers along with grouting foundation bolts / anchoring bolts, wall opening, structural modification, pipeline modification, roof opening if required shall be done by BHEL. Vendor to confirm	

SL NO	DESCRIPTION	VENDOR'S OFFER
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		(With technical details)
14.12	<p>M/S BHEL SCOPE:</p> <ol style="list-style-type: none"> <li>Anchoring work as per manufacturer's drawing if required</li> <li>EOT Crane service inside shop</li> <li>All the consumables like water, welding electrodes, compressed air, electricity, gas cutting torch with gas and structural items like angles, channels, cut bits and cleaning agents will be issued by BHEL for the installation of equipment at free of cost. However, Vendor must indicate the type and quantity of structure well in advance to arrange these items.</li> </ol>	
14.13	<p>VENDOR SCOPE:</p> <ol style="list-style-type: none"> <li>Design, Manufacture, Supply, Erection, Commissioning and prove out of entire Fume Exhaust and Fresh Air system.</li> <li>Drawing submission and getting approval from BHEL.</li> <li>Hand Tools for erection.</li> <li>Winches for erection work where there is no reach of shop EOT crane.</li> <li>Welding machine required for the fabrication of structural items &amp; erection activities.</li> <li>Commissioning Engineer with erection crew for erection and prove out</li> </ol>	
15.0	<b>DOCUMENTATION</b>	
15.1	THREE sets of O&M instruction with drawings (Hard copies) in English language having the following documents should be supplied along with the machine. Apart from the hard copies, vendor to provide the entire documentation in a single PDF including the catalogues of all bought items and the same shall be provided in a CD/DVD. Vendor to confirm	
15.2	Note: One set of all the documents (hard copy and soft copy) to be shown to the BHEL persons at the time of inspection at vendor's works to check the sufficiency of documents. Vendor to confirm	
15.3.0	<b>The O&amp;M instruction with drawings should contain the following</b>	
15.3.1	<ol style="list-style-type: none"> <li>Electrical Wiring Drawings – Power &amp; Control Circuits AS APPLICABLE</li> <li>Terminal drawings with check points shall be provided for Electronic Controls</li> <li>Trouble Shooting Chart for Main and all Sub-Systems</li> <li>Specifications, Catalogues, O&amp;M Manuals and Engineering manuals for the controllers of all bought out items including drawings, wherever applicable.</li> <li>All Mechanical drawings for the items manufactured / covered under scope of vendor. Mechanical drawing includes GA &amp; Sub-assembly drawings with major and critical dimensions, material and weight. Vendor to confirm</li> </ol>	

SL NO	DESCRIPTION	VENDOR'S OFFER (With technical details)
16.0	<b>PAINTING</b>	
16.1	Two coats of Synthetic Enamel Apple Green Colour Paint IS -281 and shade RAL No 6018 for blower assembly only. Vendor to confirm	
17.0	<b>Packing :</b>	
17.1	Rigid packing for items like fans, blowers, drives, electric / electronic panels and controls and such other items susceptible to damage during transit. Vendor to confirm	
18.0	<b>General</b>	
18.1	Exhaust fan Model No.- Vendor to specify	
18.2	Total Connected load (KVA) of the individual exhaust system - Vendor to specify	
18.3	Floor area required (Length, Width, and Height) for complete system. Vendor to specify	
18.4	Total weight of the individual exhaust system. Vendor to specify	
18.5	Fresh Air fan Model No.- Vendor to specify	
18.6	Total Connected load (KVA) of the individual fresh air fan system.- Vendor to specify	
18.7	Floor area required (Length, Width, and Height) for complete system. Vendor to specify	
18.8	Total weight of the individual fresh air fan system. Vendor to specify	
19.0	<b>Guarantee :</b>	
19.1	12 months from the date of commissioning and acceptance at BHEL works or 18 months from the date of supply whichever is earlier. Vendor to confirm	

**NOTE: The vendor can visit the site before submitting the offer, to assess the quantum of work involved including the work referred in clause 14.11, if required.**

## ANNEXURE-1

### Location details of Exhaust system

S.No	Location	Column No	Roof Height	Volume / Flow rate
1	Bay 103	E13	15.6 m	10,000 cmh
2	Bay 106	G8	15.6 m	10,000 cmh
3	Bay 107	J7	15.6 m	10,000 cmh
4	Bay 109	L8	15.6 m	10,000 cmh
5	Bay 111	M13	15.6 m	10,000 cmh
6	Bay 111	M6	15.6 m	10,000 cmh
7	Drum Shop - B Group	H'2	22.4m	15,000 cmh
8	-do-	J2	22.4m	15,000 cmh
9	Bay 118	J'3	22.4m	15,000 cmh
10	Bay 193 - A Group	D'3	22.4m	15,000 cmh
11	Bay 1B	L'18	22.4m	15,000 cmh

### Location details of Fresh Air system

S.No	Location	Column No	Roof Height	Volume / Flow rate
1	Bay 197	SP	10m	15,000 cmh
2	Bay 118	K'3	22.4m	15,000 cmh
3	Drum Shop - B Group	J3	22.4m	15,000 cmh
4	Bay 118	C'3	22.4m	15,000 cmh
5	Bay 1B	M 18	22.4m	15,000 cmh
6	Bay 103	D 13	15.6 m	10,000 cmh
7	Bay 194	C 14	15.6 m	10,000 cmh
8	Bay 108	J 14	15.6 m	10,000 cmh
9	Bay 109	L8	15.6 m	10,000 cmh
10	Bay 111	M13	15.6 m	10,000 cmh
11	Bay 111	M6	15.6 m	10,000 cmh



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.**

<b>1.0</b>	<b>QUOTATIONS</b>
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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 **Compliance Form**. 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, Tiruchirapalli".

### **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 / MM / CAPITAL EQUIPMENT  
1<sup>st</sup> FLOOR – INFORMATICS CENTRE BUILDING (EDP 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.

Offers submitted directly by the Manufacturers/Suppliers is preferred. 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, the 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.

<b>2.0</b>	<b>PART I (TECHNICAL &amp; UN-PRICED COMMERCIAL BID)</b>
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<b>2.1</b>	<b>Technical</b>
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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.

<b>2.2</b>	<b>Un-Priced Commercial</b>
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This part shall include / indicate the following:

2.2.1	Acceptance of commercial terms and conditions by the bidders (in the <b>compliance form</b> 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 <b>compliance form</b> (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 <b>without the price details</b> to be enclosed. (UNPRICED BID)

<b>3.0</b>	<b>OPENING OF TENDERS</b>
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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.

GENERAL TERMS AND CONDITIONS OF RA

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.

<b>4.0</b>	<b>DEFINITIONS &amp; OTHER TERMS</b>
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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. 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.

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.

<b>5.0</b>	<b>GENERAL</b>
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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.

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.

<b>5.1</b>	<b>FRAUD PREVENTION POLICY</b>
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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.

**6.0 SPECIAL PROVISIONS APPLICABLE FOR MSE VENDORS**

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 / 1<sup>st</sup> 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.

**BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI****CAPITAL EQUIPMENT /MATERIALS MANAGEMENT****COMPLIANCE FORM 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 compliance form is not filled and submitted along with techno-commercial offer (Part II) or if the vendor does not confirm acceptance to the terms and conditions proposed, the offer is liable for rejection)

**(TENDER WITH DIRECT PAYMENT & REQUIRING EMD, CEBG, PBG)**

**Description of the Equipment: Fume Exhaust Fan & Fresh Air Fan with ducting - 11 Nos.**

**BHEL Tender No. & Date: 2631500043 DT. 21.12.2015**

<b>ENQUIRY TERMS &amp; CONDITIONS</b>		<b>Vendor's Confirmation</b>
<b>1.0 PRICE BID:</b>		
	Price Bid should contain the schedule of price particulars and to be co-related to the technical details provided in Part II. 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.	<b>Accepted</b>
	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).	
<b>2.0 VALIDITY:</b>		
	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.	<b>Accepted</b>
<b>3.0 EARNEST MONEY DEPOSIT (EMD):</b>		
	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.	<b>Accepted</b>
	EMD is to be submitted in Pay Order or Demand Draft only. DD shall be in favour of "Bharat Heavy Electricals Limited, Tiruchirapalli".	
	MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed as per Annexure - I) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.	
<b>3.1 RETURNING OF EMD:</b>		
	EMD given by all unsuccessful Tenderer shall be refunded on award of LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned after submission of CEBG. EMD shall not carry any interest.	<b>Accepted</b>
<b>3.2</b>	<b>The rate of EMD for this Tender will be ( INR ) :</b>	<b>1,00,000</b>
<b>4.0 RELEASE OF PURCHASE ORDER:</b>		
	Purchase Orders will be released separately for supply and service portion on the successful vendor.	<b>Accepted</b>
<b>5.0 PAYMENT TERMS:</b>		
	<b>For SUPPLY P.O.:</b> 80% payment of Supply P.O. value shall be made within 45 days from the date of receipt of material at BHEL. <b>For BALANCE OF SUPPLY P.O. &amp; SERVICE P.O.</b> 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)	<b>Accepted</b>

<b>5.1</b>	<b>Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:</b>	
	If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of Final Minutes of Meeting for E&C for the equipment. However, in any case, payment against dispatch shall not exceed 90% of the PO Value. Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading 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
<b>6.0</b>	<b>Value for Erection &amp; Commissioning at BHEL:</b>	
	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). <b>E&amp;C is in the scope of supplier</b> , and hence the <b>E&amp;C value should be quoted separately.</b>	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 . <b>The bidder, however, can choose to quote the E&amp;C value higher than the below mentioned minimum E&amp;C value (%) and suitably apportion the supply value.</b>	Accepted
	<b>COST OF ERECTION &amp; COMMISSIONING PORTION QUOTED BY VENDOR (%) - ( Should be equal to or more than 4% )</b>	
	<b>In case of non-acceptance to split the cost of the equipment into supply portion and E&amp;C portion, then the Payment of 80% against supply will be reduced to -(%)</b>	76.00
	<b>In such cases, the balance amount (%) payable after commissioning</b>	24.00
<b>7.0</b>	<b>Taxes &amp; Duties:</b>	
	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. For BHEL, Trichy: TIN No.: 33243560005 , TNGST No. 3560005, CST No. 239383 dt. 11.06.1991 & BHEL ECC No. AAACB4146PXM012, Assessment Circle: Thiruverambur 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
<b>8.0</b>	<b>Delivery terms, Delivery period required and evaluation process:</b>	
<b>8.1</b>	<b>Delivery terms: FOR BHEL, TRICHY, TAMIL NADU</b>	Accepted
	<b>Basis of Delivery Terms :</b>	
	Price break-up details like Basic price, P&F, Taxes & Duties, Freight and Insurance etc., should be indicated in the offer.	Accepted
<b>8.2</b>	Delivery period: Vendor shall comply with the required delivery period.	
	<b>Bidder should quote time period separately for 'Supply' and 'E&amp;C' of equipment.</b>	
	(a) Supply period :- For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (LWB date) from the date of Purchase Order in the "Vendor's confirmation" below. Order acceptance, submission of CEBG, drawings etc., should not be linked to the delivery period. (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.	Accepted
	<b>DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)</b>	4
	<b>DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)</b>	
	<b>DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)</b>	3
	<b>DELIVERY PERIOD (in months) OFFERED BY VENDOR (E &amp; C PORTION)</b>	
	However, while evaluating the offers, those offers which are not conforming the requested delivery period, COMMERCIAL LOADING @ ½% of the purchase order value per week will be done for the EXTRA PERIOD requested. For evaluation 4 weeks will be considered as one month. Commercial loading on the offered price will be done during evaluation of the offers	Accepted

	<b>BHEL reserves the right to accept an offer not meeting the NIT / Enquiry delivery. However based on the 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.</b>	Accepted
<b>9.0 CONTRACT EXECUTION BANK GUARANTEE:</b>		
	The successful vendor on whom order is released shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO. If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period.	Accepted
	<b>CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&amp;C issued by BHEL</b>	
	<b>Validity of CEBG = Delivery period + Transit time of 1 month + Commissioning 3 months + 1 month (for arranging PBG) + 2 months for claim period</b>	
<b>10.0 PERFORMANCE BANK GUARANTEE:</b>		
	The successful vendor on whom order is released 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
	<b>The Bank Guarantees (CEBG &amp; 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.</b>	
	All bank charges incurred on account of issuance of CEBG and PBG will have to be borne by the vendor.	Accepted
	1) It should be typed in the <b>INR 100 value of stamp paper.</b>	
	(2) It should be <b>signed by TWO bank officials with Rubber stamp containing names &amp; employee numbers of bank officials.</b>	
	(3) It should be submitted with bank covering letter with sign and seal of the bank official.	
	Offers from vendors not accepting to submit CEBG and PBG <b>are liable for rejection.</b>	
<b>11.0 LIQUIDATED DAMAGES (LD):</b>		
	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). <b>Maximum LD for delay in Supply and E&amp;C together shall be limited to 15% of total PO value (Supply + E&amp;C).</b>	
	In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value (Supply + E&C) for each individual machine.	
	b) For the purpose of LD for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site. c) Loading on account of non-acceptance of LD for delayed Supply and/or E&C shall be as under: In case any bidder is not accepting the above LD for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.	Accepted
	d) Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.	
	For the purpose of levying LD, the date of shipment (LWB date) will be considered.	
	<b>Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&amp;C: In case any bidder is not accepting the above LD clause for delayed Supply and/or E&amp;C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.</b>	



## CONTRACT EXECUTION BANK GUARANTEE BOND

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

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

2. We, ..... Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from Bharat Heavy Electricals Limited, Tiruchirappalli stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by Bharat Heavy Electricals Limited, Tiruchirappalli by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor's failure to perform the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We, ..... Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of Bharat Heavy Electricals Limited, Tiruchirappalli under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Bharat Heavy Electricals Limited, Tiruchirappalli certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the ..... we shall be discharged from all liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date the claim shall be enforceable **and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith)** notwithstanding the fact that the said enforcement is effected after the said date

For the purpose of this clause, any letter making demand on the Bank by Bharat Heavy Electricals Limited, Tiruchirappalli dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank **(any one of the BHEL Consortium Banks as per list attached as selected by the vendor)** shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.

4. We,.....Bank Ltd, further agree with Bharat Heavy Electricals Limited, Tiruchirappalli that Bharat Heavy Electricals Limited, Tiruchirappalli shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by Bharat Heavy Electricals Limited, Tiruchirappalli

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

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

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

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

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

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- 1) It should be typed in the Rs. 100 value of stamp paper.
  - 2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.
  - 3) It should be submitted with bank covering letter with sign and seal of the bank official.

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

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## 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 with .....hereinafter 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 set out Bank Seal the..... day ..... month 200

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

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- 1) It should be typed in the Rs. 100 value of stamp paper.
  - 2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.
  - 3) It should be submitted with bank covering letter with sign and seal of the bank official.

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

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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)

<b>List of Consortium Bank</b>			
	<b>Nationalised Bank</b>		<b>Nationalised Bank</b>
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		<b>Public Sector Banks</b>
3	Bank of Baroda	20	IDBI
4	Canara Bank		<b>Foreign bank</b>
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		<b>Private bank</b>
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.

**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 for .....Micro / Small (Strike off which is not  
applicable) Category under MSMED Act 2006.

Date

(Signature)

Name -

Membership number -

**Seal of Chartered Accountant**