Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli – 620014, TAMIL NADU, INDIA
CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

TWO PART BID
Tender to be submitted in two parts.

<table>
<thead>
<tr>
<th>Enquiry Number:</th>
<th>2631300015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enquiry Date:</td>
<td>23.05.13</td>
</tr>
<tr>
<td>Due date for submission of quotation:</td>
<td>24.06.13</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Delivery (Item required at BHEL on)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Image Intensifier with Image Processing System</td>
<td>1 No.</td>
<td>15.11.13</td>
</tr>
<tr>
<td>20</td>
<td>Image Intensifier with Image Processing System</td>
<td>1 No.</td>
<td>15.11.13</td>
</tr>
</tbody>
</table>

as per the technical specification, BHEL commercial terms & conditions applicable (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. Checklist to be duly filled and enclosed along with your offer, failing which the offer will not be considered for evaluation.
2. Subsequent to the hosting of this Enquiry, any corrigendum to the Enquiry that may be hosted in the BHEL Web-site as well as Government Tenders-portal shall be viewed by the vendors regularly to know the details of corrigendum. In case if any vendor without seeing the corrigendum quoted as per original Enquiry and intimate that they have wrongly quoted will not be considered and rejected. However as per the appropriate Policy of BHEL action will be taken on them in this regard.

BHEL’s General guidelines / instructions 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 Enquiry reference “2631300015”.

Yours faithfully,

For BHARAT HEAVY ELECTRICALS LIMITED

Sr. Manager / MM / Capital Equipment

T. VENKATESWARAN
Senior Manager
Capital Equipment / MM
BHEL, Tiruchirappalli - 620 014.
### PART B-TECHNICAL SPECIFICATIONS FOR IMAGE INTENSIFIER ALONG WITH IMAGE PROCESSING SYSTEM FOR REAL TIME RADIOSCOPY (RTR) OF STRAIGHT TUBE BUTT WELDS (STBW)

#### Section I – Image Intensifier

<table>
<thead>
<tr>
<th>S. No.</th>
<th>PARTICULARS</th>
<th>BHEL SPECIFICATIONS</th>
<th>BIDDER’s OFFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Principle of Operation</td>
<td>The Image Intensifier (II) is a scintillator based imaging device used in Real Time Radioscopy (RTR) Systems. It is used with X-Ray equipment as the Radiation source. X-Rays are made to pass through the object (weld) to be radiographed and these X-Rays are captured by the Image Intensifier which converts the X-Ray image to visible image which can be viewed in a TV monitor concurrently with irradiation.</td>
<td>[with Complete Technical Details]</td>
</tr>
<tr>
<td>2.0</td>
<td>Area of Application</td>
<td>Online Real Radioscopic Inspection of Straight Tube Butt welds in Steel.</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Job Details</td>
<td>Butt Welds of Seamless Steel Tubes of Diameter 25.4 mm to 89 mm and Double wall Thickness 4mm to 30 mm.</td>
<td></td>
</tr>
<tr>
<td>4.0</td>
<td>Radioscopic Technique</td>
<td>Double wall double Image (elliptical image)</td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>Equipment Configuration</td>
<td>The minimum desired features are enlisted below</td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>Operating Parameters</td>
<td>Compatible to X ray Radiation 15 to 320 kV constant potential, Mains supply 100-250VAC, 50-60 Hz fuse 2A</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>Constructional Features</td>
<td>As follows</td>
<td></td>
</tr>
</tbody>
</table>
| 5.3    | Intensifier system | a) *Input mains voltage:* 230volts AC -50Hz.  
b) Tube shall be of latest Technology with Non browning glass for extended life.  
c) *Input screen diameter:* 230mm (9’’) (IEC 1262).  
d) *Other selectable fields:* selectable range of suitable size --supplier to specify.  
e) Applicable fields of X-Ray voltage: 15kV to 320kV.  
f) *Conversion factor:* - supplier to specify(in Cd/M² / µGy/second)  
g) *Output screen diameter:* -Supplier to specify in mm.  
h) *Limiting visual resolution:* preferably 50 lp /cm (Without magnification) and 60-70lp/cm(With magnification) measured with microscope at the output screen directly.  
i) *Integral distortion in percentage (%)*- Supplier to specify.  
j) *Shutter arrangement to be operated from control room*- Specify |
whether it is an integral part of the system or not. It is to be separately quoted if it is not a part of the system, but as an accessory. (Supplier to specify.)

k) **Built in over dose protection** - This facility should alert the operator and cut off the Image Intensifier when the x-ray directly falling on the image intensifier exceeds a certain specified threshold value. This threshold x-Ray voltage (kV) value would be adjusted by the operator based on the test situation.

l) **Shutters for the Image Intensifier** - 4 shutters for top, bottom, right, left sides which can be independently opened/closed by the operator by press of control buttons.

<table>
<thead>
<tr>
<th>Section</th>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4</td>
<td>Camera</td>
<td>Television standard with minimum 625X 480 lines /50Hz. Sensing area - (Supplier to specify) CCIR : Pixel 752(H) x 582(V) Cell size 8.6µm x 8.3 µm</td>
</tr>
<tr>
<td>5.5</td>
<td>Optical system</td>
<td>Camera lens with motorized zoom - Supplier to specify focus and zoom.</td>
</tr>
<tr>
<td>5.6</td>
<td>TV monitor</td>
<td>Power supply 230 volts-AC, 50Hz Television standard with minimum 625 lines /50Hz. TV diagonal size 425 mm (17’’) switchable to 300mm(12’’) with Circuit diagram Video IN &amp; Out with BNC type connector Input Impedance – Selectable (Options: 75 Ohm or high)</td>
</tr>
<tr>
<td>5.7</td>
<td>Dose overload</td>
<td>Phosphor burn protection compulsorily required (supplier to specify)</td>
</tr>
<tr>
<td>5.8</td>
<td>Input Electric Power Supply</td>
<td>230 ± 10 % V, 50 Hz, Single Phase AC through a 3 wire system [Phase, Neutral &amp; Protective Earthing]</td>
</tr>
<tr>
<td>5.9</td>
<td>Calibration</td>
<td>Factory calibration, to be demonstrated at the work center</td>
</tr>
<tr>
<td>5.10</td>
<td>Ambient Condition</td>
<td>The uncontrolled ambient room conditions are: a) Temperature: 18 to 45 °C, b) Relative Humidity: 45 to 85 % BIDDER to specify the atmospheric conditions, as the working environment for the offered Equipment to deliver precise results and serve for a prescribed life of the Equipment.</td>
</tr>
<tr>
<td>5.11</td>
<td>Accessories</td>
<td>BIDDER to list down (with UNIT RATE) the various ACCESSORIES to be procured with the EQUIPMENT to enhance the Operating Efficiency and Features of the offered equipment, over and above those mentioned in the Specifications.</td>
</tr>
<tr>
<td>6.0</td>
<td>Scope of supply</td>
<td>Total Number of systems-2 No.s Following shall be supplied compulsorily with the Equipment: a) Image intensifier system as per specification b) Power cables as required for inter connections c) Power supply cables d) Camera e) Optical system f) TV monitor g) Lead Shutter arrangement to be operated from the control room. h) Duplex wire type IQI EN 462 Part 5, and Line pair 1 Set. i) Mountable operator control panel with key pads and cables. j) Necessary Standard / Certificates traceable to National / International Standards. l) Spares: 1) All signal cables-1 no.each. 2) All the PCBs of Control unit (including control PCB, display unit ,power supply PCB) – 2 no. each 3) CCTV monitor –5 No.s 4) Camera- 1 no. 5) BNC (Video) cable 20 meters -4 nos. 6) Zoom lens –2 no. 7) All PCBs for I I unit –2 set 8) All fuses-3set</td>
</tr>
<tr>
<td>7.0</td>
<td>Consumables for Main Equipment &amp; Accessories</td>
<td>BIDDER has to list down the CONSUMABLES to be used in the Operation of the Equipment and QUOTE with UNIT RATE for all the listed consumables, to be procured with the equipment.</td>
</tr>
<tr>
<td>8.0</td>
<td>Spares for Main Equipment &amp; Accessories</td>
<td>BIDDER has to list down the SPARES Printed Circuit Boards – PCBs, etc.) coming under the Category of Mechanical, Electrical &amp; Electronic Spares for the Main Equipment as well for the essential and optional desirable Accessories. To be replaced with actual spares</td>
</tr>
</tbody>
</table>
BIDDER to QUOTE with UNIT RATE for all the listed SPARES, to be procured with the equipment.

**Section II-Image Processing system for Image Intensifier**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>PARTICULARS</th>
<th>BHEL SPECIFICATIONS</th>
<th>Bidder’s OFFER [With Complete Technical Details]</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.0</td>
<td>Principle of Operation</td>
<td>Digital Image Processor is used in conjunction with Image Intensifier System. Acquisition Software should convert the analogue Image from Image Intensifier to Digital Image. Image Processing software Carries out the Image Processing functions to Improve the Image Quality of this image and Displays it on a monitor.</td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td>Constructional Features</td>
<td>As follows</td>
<td></td>
</tr>
<tr>
<td>10.1</td>
<td>Image Processing System</td>
<td>The PCI based Image Processing System shall include:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(a) A/D converter and Frame Grabber</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(b) Computer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(c) Image Processing Software customized as indicated in 10.1.2</td>
<td></td>
</tr>
<tr>
<td>10.1.1</td>
<td>Image Processing System Computer</td>
<td>-Pentium-IV Processor with Industrial Rack mount chassis, 4GB RAM, 1 TBX2 hard disc capacity with Additional Graphics Card, DVD, 100Base T network interface with RJ-45 socket, minimum1280x1024 pixel &amp;0.25mm(maximum) pitch color monitor, key board and optical mouse. -Display: preferably, Automatic Gray scaling (16 to 8 bit conversion) for monitor display (supplier to specify)</td>
<td></td>
</tr>
</tbody>
</table>
## 10.1.2 Image Processing Software

**Image Processing functions:** The software should be capable of performing the following functions
- *Noise reduction through integration.*
- *Contrast enhancement*
- *Edge enhancement*
- *16 bit filter capability, with different Kernel sizes.*
- *Low pass filter, high Pass filter, median, crisping, pseudo 3D etc.*
- *8-bit type predefined filters for all type of image processing.*
- *It shall be compatible with NIMA DICOM3.0 standard and with ASTM DINCODE standard for image format and functionality. It shall have the facility to make the image automatically available in BMP, JPEG and TIFF image file format for use in standard applications.*
- The images must be available for programming the ADR in real time. For this, the Supplier shall provide the source code of the image processor software or
- Provide the images in standard image format (BMP is preferred) in real-time *(with out user specification or user prompted file saving)* in a fixed location in the PC hard drive
- The review image must display data base like Inspector name, welder name, stn code, continuous image no, work order, dimensions of part, material specification along with time and date. Facility to capture the image in two angles (first image compulsory, second optional. Back up facility to be provided

## 10.2 Ambient Conditions

The Image Processing system is used together with the Image Intensifier and X-Ray System, and hence the ambient conditions are same:
- a) Temperature: 18 to 45 °C,
- b) Relative Humidity: 45 to 85 %

BIDDER to specify the atmospheric conditions, as the working environment for the OFFERED Equipment to deliver precise results and serve for a prescribed life of the Equipment.
| 10.3 | Scope of supply | Total number of systems-2 Numbers (One for each Image Intensifier)  
Following shall be supplied compulsorily in the Equipment:  
a) Computer as per specifications  
b) A/D converter  
c) Image Processing Software |
| 10.4 | Consumables for Main Equipment & Accessories | BIDDER has to list down the CONSUMABLES to be used in the Operation of the Image Processing System and QUOTE with UNIT RATE for all the listed consumables, to be procured with the system. |
| 10.5 | Spares for Main Equipment & Accessories | BIDDER has to list down the SPARES (Printed Circuit Boards – PCBs, etc.) Coming under the Category of Mechanical, Electrical & Electronic Spares for the main system as well as for the essential and optional desirable Accessories. To be replaced with actual spares and accessories.  
BIDDER to QUOTE with UNIT RATE for all the listed SPARES, to be procured with the equipment. |
| 11.0 | Inspection | The overall system and accessories (consisting of the items described as per section –I and Section-II) shall be offered for Inspection by BHEL Engineers and Performance Prove-Out, at Supplier’s Works. |
| 12.0 | Installation and commissioning | The overall system and accessories (consisting of the items described as per section –I and Section-II) is to be installed & commissioned at BHEL Works, FREE OF COST, by the Service Engineer of the SUPPLIER. |
13.0 Performance Prove-Out at BHEL

The Supplier’s Service Engineer has to conduct demonstration of the following in accordance with INTERNATIONAL STANDARDS/Codes (ASME Boiler and Pressure vessel code section 5 Article 2):
- Resolution of the Image Intensifier system - i.e.: Image intensifier motorized zoom lens system television camera and TV monitor shall be better than 3 line pair/mm.
- 3 numbers of test reports for the above resolution verified with X-ray unit shall be submitted prior to BHEL dispatch.
- Contrast sensitivity: Supplier to demonstrate 2% using steel wedge
- Demonstration of IQI sensitivity placing ASME Hole type IQI on Source side for single wall thickness

<table>
<thead>
<tr>
<th>Steel thickness (mm)</th>
<th>ASTM IQI Designation(Source side)</th>
<th>IQI essential hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 6.4 mm</td>
<td>12</td>
<td>2T</td>
</tr>
<tr>
<td>6.4 to 9.5 mm</td>
<td>15</td>
<td>2T</td>
</tr>
<tr>
<td>9.5 to 12.7 mm</td>
<td>17</td>
<td>2T</td>
</tr>
<tr>
<td>12.7 to 19 mm</td>
<td>20</td>
<td>2T</td>
</tr>
</tbody>
</table>

14.0 Documentation in ENGLISH Language

3 Copies (In English) of the Operation & Maintenance Manuals containing Electric Schematics, Circuit Diagrams, PCB Drawings, Trouble Shooting Charts, Mechanical Sub-Assemblies, Rating of Bought-Out Items, etc. shall be supplied, at the time of inspection by BHEL Engineers.

In addition, one SOFT COPY in CD to be supplied.

15.0 Performance Guarantee

The overall system and accessories (consisting of the items described as per section –I and Section-II, including Bought-Out Items) are to be guaranteed for its performance for a period of two years from the date of performance acceptance at BHEL Works.

16.0 Service and Spares Support Requirements

Vendor shall ensure after the guarantee period, through trained service personnel in India for next 5 years as and when need arise. Spares to be made available with in a fortnight.

17.0 Training on Operation & Maintenance

Complete Training for 2 BHEL Engineers is to be given on Operation & Maintenance of the OFFERED Training has to be provided at BHEL Works, after the successful commissioning of the Equipment & Accessories.
<table>
<thead>
<tr>
<th>18.0</th>
<th>Annual Maintenance Contract - AMC</th>
<th>The BIDDER has to QUOTE for AMC with detailed scope of work.</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.0</td>
<td>Safety and Quality Standards</td>
<td>Supplier to ensure that Safety and Quality of the overall RTR system and accessories (consisting of the items described as per section –I and Section-II, including Bought-Out Items) and it shall conform to International Standards. Conformance certificate to be furnished along with the equipment.</td>
</tr>
</tbody>
</table>

R.J.PARDIKAR
AGM / NDT

ES SALAI KUBERAN
AGM / M&S – ES & INSTN
## PART A

**Qualifying Criteria for Supply of ‘Image Intensifier with Image Processing System’**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>PARTICULARS</th>
<th>VENDOR’s RESPONSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Number of Years of Experience of the BIDDER/ VENDOR in the field of design, manufacture and supply of ‘Image Intensifier with Image Processing System’</td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>YEAR of LAUNCH of the Model quoted against this ENQUIRY</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Is there any other model launched after the quoted Model? Otherwise, indicate the likely year in which the next model is likely to be launched</td>
<td></td>
</tr>
<tr>
<td>4.0</td>
<td>Number of ‘Image Intensifier with Image Processing System’ supplied, installed and commissioned till date, in the QUOTED MODEL</td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>Number of ‘Image Intensifier with Image Processing System’ supplied, installed and commissioned till date for the following category of CUSTOMERS (within INDIA): &lt;br&gt; a) Government Organisations  &lt;br&gt; b) Private Sector Companies [Large Scale Industries]</td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td>Number of ‘Image Intensifier with Image Processing System’ supplied, installed &amp; commissioned till date in the following Category (around the GLOBE): &lt;br&gt; a) Universities  &lt;br&gt; b) R&amp;D Labs  &lt;br&gt; c) Reputed Heavy Engineering Works/Manufacturing firms</td>
<td></td>
</tr>
<tr>
<td>7.0</td>
<td>Details of Design Set-Up and Technology Back-Up assured for the PRINCIPAL Equipment Maker</td>
<td></td>
</tr>
<tr>
<td>8.0</td>
<td>Details on International Standards followed in Design of the System</td>
<td></td>
</tr>
<tr>
<td>9.0</td>
<td>Comprehensive Details on Performance Testing - of the Equipment quoted, to be ensured, prior to dispatch from Supplier’s Works</td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td>Details of Quality System followed (Kindly furnish the salient aspects of the QA system followed)</td>
<td></td>
</tr>
<tr>
<td>11.0</td>
<td>Details on SERVICE-after-SALES Set-Up in India including the addresses of Agents/Service Centres in India and Asia</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Any Additional Data to supplement the manufacturing capability of the BIDDER</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION – II

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for the Image Intensifier with Image Processing System.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>REQUIREMENTS</th>
<th>VENDOR’s COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0</td>
<td>The BIDDER / VENDOR shall have a minimum of TWO Years of Continuous Experience in the Design, Manufacture of ‘Image Intensifier with Image Processing System’. Indicate the actual experience.</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td>The BIDDER / VENDOR shall have supplied at least one number of ‘Image Intensifier with Image Processing System’ within the last five years. Indicate the number of equipment (of QUOTED MODEL) sold</td>
<td></td>
</tr>
</tbody>
</table>
15.0 Reference List of Customers and Performance Certificate from CUSTOMERS (minimum ONE Customer) with full contact details of CONTACT PERSON.

SECTION – III
The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>REQUIREMENTS</th>
<th>VENDOR’s COMPLIANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0</td>
<td>The BIDDER / VENDOR shall submit the offer in TWO PARTS - Technical [with PART A &amp; PART B] &amp; Commercial and Price Bid.</td>
<td></td>
</tr>
<tr>
<td>17.0</td>
<td>The Offer shall contain a comparative statement of Technical Specifications given by BHEL and the Offer Details submitted by the Bidder, against each clause. A just ‘CONFIRMED’ or ‘COMPLIES’ or ‘YES’ or ‘NO-DEVIATION’ or similar words in the technical comparative statement may lead to disqualification of the Technical Offer.</td>
<td></td>
</tr>
<tr>
<td>18.0</td>
<td>The BIDDER / VENDOR shall assure a continuous support for SPARES and SERVICE for FIVE Years, from the date of commissioning of the equipment at BHEL Works.</td>
<td></td>
</tr>
<tr>
<td>19.0</td>
<td>The Technical Offer shall be supported by Product Catalogue and Data Sheets in ORIGINAL and complete technical details of ‘Bought-Out-Items’ with copies of Product Catalogue and Selection Criteria</td>
<td></td>
</tr>
<tr>
<td>20.0</td>
<td>The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of Scope of Supply.</td>
<td></td>
</tr>
<tr>
<td>21.0</td>
<td>The reference List of Customers shall be accompanied with the details (Phone Number / E-Mail ID) of the CONTACT PERSON for cross reference by BHEL</td>
<td></td>
</tr>
</tbody>
</table>

R.J.PARDIKAR  
AGM / NDT
**ENQUISRY TERMS & CONDITIONS**

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 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.

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 & II in case of Three 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.

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.

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 submission of CEBG. EMD shall not carry any interest.

4.2 **The rate of EMD for this Tender will be (INR):**

60,000/-
5.0 RELEASE OF PURCHASE ORDER:

Purchase Orders will be released separately for supply and service portion on the successful vendor.  

6.0 PAYMENT TERMS:

Vendor’s are requested choose and confirm one of the following payment terms (i.e. 6.1 or 6.2) and indicate the same against the appropriate row under the Vendor’s Confirmation column.

6.1 THROUGH LETTER OF CREDIT (LC):

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:

i. Within 30 days of receipt of acceptable CEBG, an Irrevocable Unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the supply value of PO (30% of 80%).

ii. Not earlier than 60 days before the shipment date, but only after BHEL receiving the Pre-dispatch Inspection call / intimation of readiness of the ordered items from the supplier, the value of this irrevocable unconfirmed L/C would be enhanced from 24% to 80% of the Supply value of PO.

iii. 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.

6.2 DIRECT PAYMENT:

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).

6.3 Bank Guarantee and Loading against non acceptance of BHEL’s Payment Terms:

If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment / opening of LC 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:

(a) Benchmark Prime Lending Rate (BPLR) of SBI as applicable on the scheduled date of tender opening + 2%, for the amount & period of relaxation sought by bidder.

(b) On account of payment through LC, if insisted by bidder, Bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC w.r.t. NIT norms, as per the prevailing bank rates.

Accepted

Page 2 of 6
### 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.**

<table>
<thead>
<tr>
<th>COST OF ERECTION &amp; COMMISSIONING PORTION QUOTED BY VENDOR (%) - (Should be equal to or more than 5%)</th>
<th>Accepted</th>
</tr>
</thead>
</table>

### 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.

**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.

### 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 II Techno Commercial bid)**

### 10.0 Delivery terms, delivery period required and evaluation process:

#### 10.1 Delivery terms: CFR Chennai Seaport / Airport - Incoterms 2010

**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.

**Bidder should quote time period separately for ‘Supply’ and ‘E&C’ of equipment.**

(a) **Supply period:** – For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (B/L or AWB date) from the date of Purchase Order in the “Vendor’s confirmation” below. Order acceptance, submission of CEBG, drawings etc., should not be linked to the delivery period.

(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.

<table>
<thead>
<tr>
<th>DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)</td>
<td>Accepted</td>
</tr>
<tr>
<td>DELIVERY PERIOD (in months) OFFERED BY VENDOR (E &amp; C PORTION)</td>
<td>Accepted</td>
</tr>
</tbody>
</table>

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**

BHEL reserves the right to accept an offer not meeting the NIT 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.
11.0 CONTRACT EXECUTION BANK GUARANTEE:

The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO but before L/C opening.

If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period.

CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&C issued by BHEL

Validity of CEBG = Delivery period + Transit time of 2 months + Commissioning 3 months + 1 month (for arranging PBG) + 2 months for claim period

12.0 PERFORMANCE BANK GUARANTEE:

The vendor to whom order is placed 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).

The Bank Guarantees (CEBG & PBG) shall be issued exactly as per the BHEL Format attached with this Tender (without any deviation) by any one of the Consortium Banks of BHEL (List Enclosed) or from a reputed Bank and confirmed by any Consortium Bank of BHEL.

All bank charges incurred in India and outside India on account of issuance of CEBG and PBG will have to be borne by the foreign vendor.

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

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

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

Offers from vendors not accepting to submit CEBG and PBG are liable for rejection.

13.0 LIQUIDATED DAMAGES (LD):

a) LD for delay in ‘Supply’ and/or ‘E&C’ will be applicable to the delays attributed to vendor. LD will be considered separately for ‘Delivery’ and ‘E&C’.

The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C).

The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).

Maximum LD for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).

In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value (Supply + E&C) for each individual machine.

b) For the purpose of LD for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site.

c) Loading on account of non-acceptance of LD for delayed Supply and/or E&C shall be as under:

In case any bidder is not accepting the above LD for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.

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 Levy LD, the date of shipment (BL/ AWB date) will be considered.

Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&C:

In case any bidder is not accepting the above LD clause for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.
### 14.0 SHORT SUPPLY / WARRANTY REPLACEMENT:

In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on DDP - Incoterms 2010 basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier’s cost on DDP - Incoterms 2010 basis.

Accepted

### 15.0 RISK PURCHASE:

If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order.

**BHEL reserves the right not to consider offers from vendors not accepting the above Risk Purchase terms.**

Accepted

### 16.0 GUARANTEE:

Vendors shall provide a guarantee for 24 months from the date of commissioning of the equipment or 30 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.**

Accepted

### 17.0 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. 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

### 18.0 AGENCY COMMISSION

Vendors to specify the percentage agency commission payable to their Indian Agent in the vendor confirmation space given below. If agency commission is not applicable, vendor shall state that clearly in the space given below.

<table>
<thead>
<tr>
<th>AGENCY COMMISSION : APPLICABLE ( ____ %) / NOT APPLICABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulars of Indian Agent (a copy of Agency agreement shall be enclosed. The CFR prices quoted shall include the agency commission) :</td>
</tr>
</tbody>
</table>

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Page 5 of 6
### 19.0 CONTACTS:
Details of contact person’s name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designation:</td>
</tr>
<tr>
<td>Email ID:</td>
</tr>
<tr>
<td>Phone No.:</td>
</tr>
<tr>
<td>Mobile No.</td>
</tr>
<tr>
<td>Fax No.:</td>
</tr>
<tr>
<td>Address:</td>
</tr>
</tbody>
</table>

| 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:

<table>
<thead>
<tr>
<th>Approximate Net weight of the total consignment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate Gross weight of the total consignment:</td>
</tr>
<tr>
<td>Approximate volume of the total consignment:</td>
</tr>
</tbody>
</table>

| 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. |

### We have gone through and understood the ‘General guidelines & instructions to bidders for submitting offer’ enclosed as a part of the NIT and confirm that our offer has been made in line with the same and the confirmations given in the above checklist supercede any other standard information provided in our quotation.

<table>
<thead>
<tr>
<th>Signature with date: (AFFIX OFFICIAL SEAL HERE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
</tr>
</tbody>
</table>

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)
**ENQUIRY TERMS & CONDITIONS**

**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 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. The bidder has to quote charges for ‘Supply’ and ‘Erection & Commissioning’ separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL)."

**2.0 VALIDITY:**
Validity of the offer should be 120 days from the date of tender opening. BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.

**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.

EMD is to be submitted in cash (as permissible under Income Tax Act), Pay Order or Demand Draft only.

**3.1 RETURNING OF EMD:**
EMD given by all unsuccessful Tenderer shall be refunded on award of LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned after submission of CEBG. EMD shall not carry any interest.

**3.2 The rate of EMD for this Tender will be (INR):**
60,000/-

**4.0 RELEASE OF PURCHASE ORDER:**
Purchase Orders will be released separately for supply and service portion on the successful vendor.

**5.0 PAYMENT TERMS:**
Vendor’s are requested choose and confirm one of the following payment terms (i.e. 5.1 or 5.2) and indicate the same against the appropriate row under the Vendor’s Confirmation column.

**5.1 PAYMENT THROUGH LETTER OF CREDIT (LC):**
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:

i. Within 30 days of receipt of acceptable CEBG, an **Irrevocable Unconfirmed** L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the supply value of PO (30% of 80%).
ii. Not earlier than 60 days before the shipment date, **but only after BHEL receiving the Pre-dispatch Inspection call / intimation of readiness of the ordered items from the supplier.** The value of this irrevocable unconfirmed L/C would be enhanced from 24% to 80% of the Supply value of PO.

iii. The above L/C can be negotiated after shipment against submission of LWB 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.**
Payment for 20% of the Supply value and 100% of the E&C value will be made directly after the Erection and Commissioning and against
(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.

5.2 **DIRECT PAYMENT :**

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)

5.3 **Bank Guarantee and Loading against non acceptance of BHEL’s Payment Terms:**

If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment / opening of LC 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:

(a) Benchmark Prime Lending Rate (BPLR) of SBI as applicable on the scheduled date of tender opening + 2%, for the amount & period of relaxation sought by bidder.

(b) On account of payment through LC, if insisted by bidder, Bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC w.r.t. NIT norms, as per the prevailing bank rates.

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.**

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 5%)

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.

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.
8.0 Delivery terms, Delivery period required and evaluation process:

8.1 Basis of Delivery Terms:

<table>
<thead>
<tr>
<th>Basis of Delivery Terms</th>
<th>Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price break-up details like Basic price, P&amp;F, Taxes &amp; Duties, Freight and Insurance etc., should be indicated in the offer.</td>
<td>Accepted</td>
</tr>
</tbody>
</table>

8.2 Delivery period: Vendor shall comply with this required period.

<table>
<thead>
<tr>
<th>Bidder should quote time period separately for ‘Supply’ and ‘E&amp;C’ of equipment.</th>
<th>Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>(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.</td>
<td>Accepted</td>
</tr>
<tr>
<td>(b) E&amp;C period: Duration shall be counted from the date of intimation by BHEL to vendor for deputation of their Engineers for E&amp;C.</td>
<td>Accepted</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DELIVERY PERIOD (in months) OFFERED BY VENDOR (E &amp; C PORTION)</th>
<th>Accepted</th>
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</thead>
<tbody>
<tr>
<td>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.</td>
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</tbody>
</table>

| BHEL reserves the right to accept an offer not meeting the NIT 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. | Accepted |

9.0 CONTRACT EXECUTION BANK GUARANTEE:

| The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO but before L/C opening. If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period. | Accepted |

| CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&C issued by BHEL. Validity of CEBG = Delivery period + Transit time of 1 month + Commissioning 3 months + 1 month (for arranging PBG) + 2 months for claim period | |

10.0 PERFORMANCE BANK GUARANTEE:

| 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). The Bank Guarantees (CEBG & PBG) shall be issued exactly as per the BHEL Format attached with this Tender (without any deviation) by any one of the Consortium Banks of BHEL (List Enclosed) or from a reputed Bank and confirmed by any Consortium Bank of BHEL. All bank charges incurred on account of issuance of CEGB and PBG will have to be borne by the vendor. 1) It should be typed in the INR 100 value of stamp paper. 2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials. 3) It should be submitted with bank covering letter with sign and seal of the bank official. Offers from vendors not accepting to submit CEBG and PBG are liable for rejection. | Accepted |

| | |

Page 3 of 5
### 11.0 LIQUIDATED DAMAGES (LD):

- **a)** LD for delay in ‘Supply’ and/or ‘E&C’ will be applicable to the delays attributed to vendor. LD will be considered separately for ‘Delivery’ and ‘E&C’.
  
  The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C).
  
  The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).

- **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.

- **c)** 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.

- **d)** 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.

For the purpose of levying LD, the date of shipment (LWB date) will be considered.

| **Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&C:** |
| In case any bidder is not accepting the above LD clause for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder. |

### 12.0 SHORT SUPPLY / WARRANTY REPLACEMENT:

- In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL for such short supplies shall be borne by the supplier.

| **Warranty Replacements during Guarantee period at supplier’s cost on FOR BHEL Works basis.** |

### 13.0 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.** |

### 14.0 GUARANTEE:

- Vendors shall provide a guarantee for 24 months from the date of commissioning of the equipment or 30 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.** |

### 15.0 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. 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.** |
### CONTACTS:

Details of contact person’s name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned

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<th>Name:</th>
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<tr>
<td>Designation:</td>
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<td>Address:</td>
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</table>

### 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.

We have gone through and understood the ‘General guidelines & instructions to bidders for submitting offer’ enclosed as a part of the NIT and confirm that our offer has been made in line with the same and the confirmations given in the above 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)
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.

1.0 QUOTATIONS

Considering the nature of procurement which requires a good amount of technical details, broachers, 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 INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.

**Envelope I** 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.

**Envelope 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, super scribening 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:

AGM / MM / CAPITAL EQUIPMENT / MODERNISATION  
1th 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.**

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.

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**2.0 PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)**

**2.1 Technical**

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-Prized 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 up to Chennai port (for foreign bidders). FOR BHEL, Tiruchy price (for Indian bidders) |
| 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 “Un-Priced Part II” i.e., a copy of the Price Bid **without the price details** to be enclosed.

### 3.0 OPENING OF TENDERS

The Part I - Technical & Un-priced commercial bid alone would be opened on the Tender opening date.

The Part II – The 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., ON LINE BIDDING ON INTERNET.

- For the proposed RA, technically and commercially acceptable bidders only shall be eligible to participate.

- In case of RA, BHEL will engage the services of a service provider for conduct of the RA who will provide all necessary training and assistance to the bidders before commencement of on line bidding on internet.

- Business rules governing the RA will be communicated to the bidders through service provider for compliance.

- Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of RA. Without the compliance, the vendor will not be eligible to participate in the event.

- BHEL will provide a sample calculation sheet (in EXCEL format) which would help the bidders to arrive at “Net Cash outflow to BHEL” considering various price / cost elements like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) etc. for each of the bidders to enable them to arrive at “Net Cash outflow to BHEL” which is the amount the bidder would be bidding during the RA.

- RA will be conducted on scheduled date & time and at the end of event, the lowest bidder value will be known on the network.

- The lowest bidder has to Fax the duly signed “Price Break-up” in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
• Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct further business with BHEL, as per the prevailing procedure.

• BHEL reserves the right to negotiate if need be, with the “L1” vendor of the Reverse Auction

### 4.0 DEFINITIONS & OTHER TERMS

**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 and Duties 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. AAACB4146PX012, Assessment circle Tiruverumbur. Our I E Code: 0588138690.

For services rendered by the foreign vendor in India (like Erection & Commission 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.

**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.

**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

**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 allow to the Public Sector Enterprises ordering and price preference facilities as admissible under the existing policy.

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.
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 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 CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

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

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

<table>
<thead>
<tr>
<th>List of Consortium Bank</th>
<th>Nationalised Bank</th>
<th>Nationalised Bank</th>
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<tbody>
<tr>
<td>1</td>
<td>Allahabad Bank</td>
<td>19</td>
<td>Vijaya Bank</td>
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<tr>
<td>2</td>
<td>Andhra bank</td>
<td>20</td>
<td>IDBI</td>
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<tr>
<td>3</td>
<td>Bank of Baroda</td>
<td>21</td>
<td>CITI Bank N.A</td>
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<td>4</td>
<td>Canara Bank</td>
<td>22</td>
<td>Deutsche Bank AG</td>
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<tr>
<td>5</td>
<td>Corporation bank</td>
<td>23</td>
<td>The Hongkong and Shanghai Banking Corporation Limited</td>
</tr>
<tr>
<td>6</td>
<td>Central bank</td>
<td>24</td>
<td>Standard Chartered Bank</td>
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<td>7</td>
<td>Indian Bank</td>
<td>25</td>
<td>The Royal Bank of Scotland N.V.</td>
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<td>8</td>
<td>Indian Oversea Bank</td>
<td>26</td>
<td>J P Morgan</td>
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<td>Axis Bank</td>
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<td>10</td>
<td>Punjab National Bank</td>
<td>28</td>
<td>The Federal Bank Limited</td>
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<tr>
<td>11</td>
<td>Punjab &amp; Sindh Bank</td>
<td>29</td>
<td>HDFC</td>
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<td>31</td>
<td>ICICI</td>
</tr>
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<td>Syndicate Bank</td>
<td>32</td>
<td>Indusind Bank</td>
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<td>State Bank of Travancore</td>
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<td>Yes Bank</td>
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<tr>
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<td>UCO Bank</td>
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<tr>
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<td>18</td>
<td>United Bank of India</td>
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</table>

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.