

# REQUEST FOR QUOTATION

|                                                                                  |                                                                                                                         |                                                                                                                               |                                                                                                                     |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|  | <b>BHARAT HEAVY ELECTRICALS LIMITED</b><br>Electronics Division<br>PB No. 2606, Mysore Road Bangalore - 560026<br>INDIA | <b>RFQ NUMBER:</b><br>JAY0000166<br><br><b>RFQ DATE :</b><br>08.05.2018                                                       | Due Date/Day: 30.05.2018 WED<br>Time : 13:00 HRS<br>Tender Box : Reception Area<br>Opening Venue:<br>NEW ENGG. BLDG |
| MMI:PU:RF:003                                                                    |                                                                                                                         |                                                                                                                               |                                                                                                                     |
| (address for communication) :                                                    |                                                                                                                         | (for all correspondence)<br>Purchase Executive : Jayanthi<br>Phone : 080 26998097<br>Fax :<br>E-mail: jayanthip@bheledn.co.in |                                                                                                                     |

| Sl No. | Description                                                                                                                                                                                                                                                                                                                                  | Qty    | Unit | Delivery qty | Delivery Date |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|--------------|---------------|
| 1      | TI0668090731 Traction Grade Cable , 4GKW 70 sq.mm.<br>* HSN/SAC : 3921<br>Inspection / Test Report<br>Traction Grade Cable, 4GKW 70 sq.mm.<br>Colour: Black<br>Huber+ Suhner AG Part No. 12 545 532<br>Radiant RSCC Speciality Cables Pvt. Ltd. Part No.<br>RR045801070-00SQM0700<br>Siechem Technologies Private Ltd.<br>Part No. 871370704 | 20,000 | M    | 20,000       | 11.07.2018    |

Total Number of Items - 1

- 1.
- 2.

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

**NOTES :**

- 1.This RFQ is Governed by :
  - a)INSTRUCTIONS TO BIDDERS/SELLERS(Doc No :BHEL:EDN:ITB-SHOP) available at **www.bheledn.com (RFQ-PO Terms & Conditions)**
  - b)GENERAL CONDITIONS OF CONTRACT FOR PURCHASE(Doc no :BHEL:EDN:GCC-SHOP) available at **www.bheledn.com (RFQ-PO Terms & Conditions)**
  - c)Any other specific Terms and Conditions mentioned.
2. Bidders / Representatives who would like to be present during opening of offers are required to furnish authorization letter for the same .
- \* The HSN/SAC no mentioned against the line items in the RFQ are indicative only.

For and On behalf of BHEL.

Jayanthi  
Control Equipment

1 OF 1

## ADDITIONAL TERMS AND CONDITIONS

### RFQ NO. JAY0000166

1. Separate offer in English language addressed to the Purchase Executive shall be made for this RFQ in three parts.

**Three Part Bid** : Offer shall be made in three parts as detailed below:

**“Pre-Qualification Bid (Part I Bid)”** : Documents related to PQC to be placed In a sealed cover super scribed with RFQ No., Due Date and “Pre-Qualification Bid (Part I Bid)” ,

**“Techno-commercial Bid (Part II Bid )”** : Techno-commercial bid to be placed in a separate sealed envelope super scribed with RFQ No, Due date & “Techno commercial Bid (Part II Bid)”. This bid should contain all commercial terms i.e. delivery terms, payment terms, applicable taxes / duties etc.

**“Price Bid (Part III Bid)”** : Price of the offered item to be placed in a separate sealed envelope super scribed with RFQ No, Due date and “Price Bid (Part III Bid)”.

All the three sealed envelopes shall be placed in another sealed envelope super scribed with RFQ No & Due date.

First pre qualification bid & Techno commercial bid will be opened on due date . After techno-commercial bid is opened, the details will be forwarded to customer and upon approval, price bids will be opened.

2. Pre qualification criteria is attached herewith.
  3. Type test charges in rupees / in foreign currency (for import quote) to be indicated separately if any in the price bid and BHEL will consider all type test charges for arriving lowest price. (the same to be confirmed in techno-commercial bid without price).
-



**PREQUALIFICATION CRITERIA (PQC)**  
**FOR 70 SQMM. POWER CABLE (TI0668090731)**  
**GROUP: TRACTION ENGINEERING**

Ref: PQ/EDN/445/70PCBL

Rev. No.: 00

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**1.0 PRE QUALIFICATION CRITERIA (PQC):**

1. The Bidder should be a supplier of 70 sq.mm. Power cables. The offered cable shall be electron beam irradiated, thin walled, conforming to International standards using low smoke, low toxicity & halogen free materials suitable for EMU applications.
2. BHEL shall approach and submit credentials/details furnished by the vendor with their offers for technical approval to the customer and await customer's approval for a maximum of one month from the date of tender opening. If approval is not received within the above period, BHEL shall treat the offer is techno commercially not acceptable and offer shall be rejected.
3. If already approved bidder through BHEL, the above points are null and avoid.

**2.0 DOCUMENTS SUBMISSION:**

1. Bidder to submit clause by clause compliance to complete technical specification (Technical specification no. TSG-AC EMU- SPEC/028, SI. No. 1.7 (Rev.04), dated 31.01.2015) along with copy of type test report in accordance with latest IEC standards for the same, during the bid submission.
2. Should possess a valid type test report conducted as per latest IEC standard with respect to time during the bid submission.
3. Proof of supply of 70 sqmm Power Cables used in rolling stock application directly or through any agency to Indian railway during the last 5 years to be submitted.

**3.0 REFERENCE DOCUMENTS:**

- a) Purchase specification no. TSG-AC EMU- SPEC/028, SI. No. 1.7 (Rev.04) dated 31.01.2015 for 70 sqmm Power Cable.

Revision 00

Approved By

Chandrashekar S

Prepared by

Vijayakumar M

Issued by

Traction Engg.

Date

04.05.18

| Specification data sheet of 1x70 sq. mm. Unscreened Cable (1800/3000 V)<br>Material Code: TI0668090731 |                                                                                            |        |                                             |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------|---------------------------------------------|
| Customer/Consultant                                                                                    | BHEL/ Indian Railways                                                                      |        |                                             |
| Ref:                                                                                                   | EDN/ACEMU/CABLES/1.7 Rev. 00 dated 22.03.18                                                |        |                                             |
| Prepared by                                                                                            | Akanksh Tandon, Sr. Engineer/ Traction Engg.                                               |        |                                             |
| Checked by                                                                                             | Vijayakumar M, Manager/ Traction Engg.                                                     |        |                                             |
| Cable description                                                                                      | 1Cx70 sqmm Annealed Tinned Flexible Copper Conductor, EBXL-XLPO insulated & Sheathed cable |        |                                             |
| S. No.                                                                                                 | Properties                                                                                 | Unit   | Specification                               |
| 1.0                                                                                                    | Cable Size                                                                                 | Sq mm  | 70                                          |
| 2.0                                                                                                    | No. of Cores                                                                               | Nos.   | 1                                           |
| 3.0                                                                                                    | Construction                                                                               |        | As per ELRS/SPEC/ELC/0019 (Rev-4) or latest |
| 4.0                                                                                                    | Voltage Rating                                                                             | V      | 1800/3000 V                                 |
| 5.0                                                                                                    | Temperature Range                                                                          | °C     | - 40 to +120 °C                             |
| 6.0                                                                                                    | <b>CONDUCTOR</b>                                                                           |        |                                             |
| 6.1                                                                                                    | Material                                                                                   |        | Annealed Tinned Flexible Copper Conductor   |
| 6.2                                                                                                    | Cross sectional Area                                                                       | Sq mm  | 70                                          |
| 6.3                                                                                                    | Type of Conductor                                                                          |        | Class 5                                     |
| 6.4                                                                                                    | No. of Wires                                                                               | Nos.   | 348                                         |
| 6.5                                                                                                    | Wire dia-max                                                                               | mm     | 0.51                                        |
| 6.6                                                                                                    | Max DC Conductor Resistance at 20 °C.                                                      | Ohm/km | 0.277                                       |
| 6.7                                                                                                    | Conductor Dia nominal                                                                      | mm     | 11.5                                        |
| 7.0                                                                                                    | <b>INSULATION</b>                                                                          |        |                                             |
| 7.1                                                                                                    | Material                                                                                   |        | EBXL-XLPO                                   |
| 7.2                                                                                                    | Min. Thickness of insulation                                                               | mm     | 0.75                                        |
| 7.3                                                                                                    | Insulation Colour                                                                          |        | Natural                                     |
| 8.0                                                                                                    | <b>SHEATH</b>                                                                              |        |                                             |
| 8.1                                                                                                    | Material                                                                                   |        | EBXL-XLPO                                   |
| 8.2                                                                                                    | Min. Thickness of Sheath                                                                   | mm     | 0.95                                        |
| 8.3                                                                                                    | Nominal Overall Diameter of cable                                                          | mm     | 15.60 ± 0.30                                |
| 8.4                                                                                                    | Approx Cable Weight                                                                        | Kg/Km  | 740 ± 10%                                   |
| 8.5                                                                                                    | Marking on the cable                                                                       |        | 1800/3000 V 1Cx70 sqmm EBXL-HR 120 °C Cable |
| 9.0                                                                                                    | <b>ELECTRICAL DATA</b>                                                                     |        |                                             |
| 9.1                                                                                                    | Current rating in Air - 2 Phase                                                            | Amp    | 402                                         |
| 9.2                                                                                                    | Max. continuous Working Temp.                                                              | °C     | 120                                         |

Note: For supplier if any other details are required, please refer:

1) RDSO Spec no. ELRS/SPEC/ELC/0019 (Rev-4) or latest for working voltages upto 1.8/3 kV

CLW spec no. CLW/ES/3/0458/E (or latest)

3) Doc. No. TSG-AC EMU-SPEC/028 Rev. No. 04 dated 31.01.2015

2)

|                                                                                                                                                                                                                           |                                                                                                                                                              |                             |                                |                |                 |                                             |               |            |            |                |         |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|----------------|-----------------|---------------------------------------------|---------------|------------|------------|----------------|---------|----------|
|                                                                                                                                           | <p align="center"><b>BHARAT HEAVY ELECTRICALS LIMITED</b><br/> <b>TRANSPORTATION SYSTEMS GROUP,</b><br/> <b>INDUSTRY SECTOR, LODHI ROAD, NEW DELHI</b></p>   |                             |                                |                |                 |                                             |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | DOCUMENT No.                                                                                                                                                 |                             | <b>TSG-AC EMU- SPEC/028</b>    |                |                 | Rev. No. <b>04</b>                          |               |            |            | Prepared       | Checked | Approved |
|                                                                                                                                                                                                                           | TYPE OF DOC.                                                                                                                                                 |                             | <b>TECHNICAL SPECIFICATION</b> |                |                 |                                             | NAME          | <b>DK</b>  | <b>SKM</b> | <b>Dr. A S</b> |         |          |
|                                                                                                                                                                                                                           | <b>TITLE</b><br><b>POWER AND CONTROL CABLES</b>                                                                                                              |                             |                                |                |                 |                                             | SIGN          |            |            |                |         |          |
|                                                                                                                                                                                                                           |                                                                                                                                                              |                             |                                |                |                 |                                             | DATE          | 31.01.2015 |            |                |         |          |
|                                                                                                                                                                                                                           |                                                                                                                                                              |                             |                                |                |                 |                                             | GROUP         | TBSG       | W.O. No    |                |         |          |
|                                                                                                                                                                                                                           | CUSTOMER/<br>CONSULTANT                                                                                                                                      | <b>BHEL/INDIAN RAILWAYS</b> |                                |                |                 |                                             |               |            |            |                |         |          |
| PROJECT                                                                                                                                                                                                                   | <b>DESIGN, DEVELOPMENT, MANUFACTURE, SUPPLY, TESTING &amp; COMMISSIONING OF 25kV AC THREE PHASE INDIGENOUS PROPULSION &amp; OTHER EQUIPMENTS FOR AC EMUs</b> |                             |                                |                |                 |                                             |               |            |            |                |         |          |
| <b>COPYRIGHT AND CONFIDENTIALITY</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in anyway detrimental to the interest of the company | <p align="center"><b>TECHNICAL SPECIFICATION</b></p> <p align="center"><b>POWER AND CONTROL CABLES</b></p>                                                   |                             |                                |                |                 |                                             |               |            |            |                |         |          |
|                                                                                                                                                                                                                           |                                                                                                                                                              |                             |                                |                |                 |                                             |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | 04                                                                                                                                                           | 30.01.18                    | <b>DK</b>                      | <b>S.K.M</b>   | <b>Dr.A.S.</b>  | Clause 1.2 & 2.1 revised.                   |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | 03                                                                                                                                                           | 10.01.18                    | <b>GSA</b>                     | <b>S.K.M</b>   | <b>Dr.A.S.</b>  | Clause 1.2 & 2.1 revised.                   |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | 02                                                                                                                                                           | 22.01.15                    | <b>DK</b>                      | <b>S.K.M</b>   | <b>Dr.A.S.</b>  | Clause 1.2 revised.                         |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | 01                                                                                                                                                           | 30.08.13                    | <b>Abhay</b>                   | <b>S.K.M</b>   | <b>Dr.A.S.</b>  | Clause 1.2 & 2.1 revised. Annexure-1 added. |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | 00                                                                                                                                                           | 30.11.12                    | <b>Abhay</b>                   | <b>S.K.M</b>   | <b>Dr.A.S.</b>  | Original Version.                           |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | <b>Rev No.</b>                                                                                                                                               | <b>Date</b>                 | <b>Altered</b>                 | <b>Checked</b> | <b>Approved</b> | <b>REVISION DETAILS</b>                     |               |            |            |                |         |          |
|                                                                                                                                                                                                                           | <b>Distribution</b>                                                                                                                                          |                             |                                |                | <b>To</b>       | <i>Office Copy</i>                          | <i>TSG-MM</i> |            |            |                |         |          |
|                                                                                                                                                                                                                           |                                                                                                                                                              |                             |                                | <b>Copies</b>  |                 |                                             |               |            |            |                |         |          |



|                                                                                  |                                                             |                 |
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|                                                                                  | DOC. No. : TSG-AC EMU- SPEC/028 REV No. 04                  | PI No.          |
|                                                                                  |                                                             | WORK ORDER No.  |

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## SECTION – 1

### SCOPE AND QUANTITIES

#### 1.1 SCOPE

This technical specification covers the requirements of design, manufacture, testing at works, packing and dispatch of Cables.

The equipment is required for the following project.

Name of the customer : BHEL/INDIAN RAILWAYS

Name of the Project : DESIGN, DEVELOPMENT, MANUFACTURE, SUPPLY, TESTING & COMMISSIONING OF 25kV AC THREE PHASE INDIGENOUS PROPULSION & OTHER EQUIPMENTS FOR AC EMUs.

The scope shall also include the followings:

- The supply of complete documentation for approval of design, relevant drawings and calculations to the satisfaction of purchaser and RDSO and support documentation associated with the operation and maintenance of the equipment supplied.
- The supplier shall submit list of equipment and facilities required for maintenance and overhaul of equipment offered.

#### 1.2 BILL OF MATERIAL:

| S. No. | Description                    |                      | Qty. per Train Set (for Prototype Rake) (12 Coach Train) ( in Mtrs) | Remarks |
|--------|--------------------------------|----------------------|---------------------------------------------------------------------|---------|
|        | CABLE DETAILS (SIZE in Sq. mm) | VOLTAGE GRADE (in V) |                                                                     |         |
| 1.1.   | 1X2.5 UNSCREENED               | 600/1000             | 77000                                                               |         |
| 1.2.   | 1X50 UNSCREENED                | 600/1000             | 750                                                                 |         |
| 1.3.   | 1X2.5 UNSCREENED               | 1800/3000            | 1500                                                                |         |
| 1.4.   | 1x 6 UNSCREENED                | 1800/3000            | 300                                                                 |         |
| 1.5.   | 1x 16 UNSCREENED               | 1800/3000            | 4000                                                                |         |
| 1.6.   | 1x 35 UNSCREENED               | 1800/3000            | 3000                                                                |         |
| 1.7.   | 1x 70 UNSCREENED               | 1800/3000            | 3300                                                                |         |
| 1.8.   | 1x 70 GNYE UNSCREENED          | 1800/3000            | 250                                                                 |         |
| 1.9.   | 1x 150 UNSCREENED              | 1800/3000            | 400                                                                 |         |
| 1.10   | 1x 185 UNSCREENED              | 1800/3000            | 125                                                                 |         |

|                                                                                  |                                                             |                 |
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|------|------------------------|-----------|------|--|
| 1.11 | 1x 50 UNSCREENED       | 3600/6000 | 300  |  |
| 1.12 | 1x 95 UNSCREENED       | 3600/6000 | 875  |  |
| 1.13 | 3x 0.5 SCREENED        | 600/1000  | 2250 |  |
| 1.14 | 6x1.5 SCREENED         | 600/1000  | 400  |  |
| 1.15 | 2X1.5 SCREENED         | 600/1000  | 200  |  |
| 1.16 | 4X1.5 SCREENED         | 600/1000  | 150  |  |
| 1.17 | 1x 6 GNYE UNSCREENED   | 600/1000  | 200  |  |
| 1.18 | 1x 2.5 GNYE UNSCREENED | 600/1000  | 200  |  |

**Note :-**

- The price for the cables shall be quoted on per metre basis.
- Manufacturing clearance shall be given after approval of design by Indian Railways.
- Lowest quoted price shall be considered for each individual cables.

**1.3 EQUIPMENT TESTING:**

Type test report is to be submitted for the equipment, if the equipment is already type tested.

In case, ultimate customer insists to repeat type test due to any reason, the type test shall be conducted again by the supplier, for which test procedure shall also be submitted by the supplier for approval before conducting the type test. In case ultimate customer desires to witness, the supplier shall have no objection. The supplier is required to quote for the type test charges if any, separately in commercial offer. These charges will be loaded in the equipment price at the time of final evaluation.

Type test will also confirm to clause 3.11 of section 3 of technical specification.



|                                                                                  |                                                             |                 |
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## SECTION – 2

### STANDARD TECHNICAL SPECIFICATION

The vendor is required to submit clause by clause compliance of the technical specification detailed below. In case details are already furnished during design approval stage from RDSO, same may please be indicated and complied.

#### 2.1 TECHNICAL SPECIFICATION OF CABLES

- i) All power cables shall be electron beam irradiated, thin walled cables conforming to International standards using low smoke, low toxicity & halogen free materials suitable for EMU applications.
- ii) All the auxiliary, communication, control and safety cables shall be conforming to international standards for fire retardant, fire survival characteristics suitable for the EMU services.
- iii) The cables shall conform to following standards/ specification: -

| S.No. | Cable as per Clause 1.2 | Standard/ Specification                                                          |
|-------|-------------------------|----------------------------------------------------------------------------------|
| 1     | From S.No. 1.1 to 1.2   | RDSO spec ELRS/SPEC/ELC/0019 Rev-2 or latest for working voltages upto 750 V.    |
| 2     | From S.No. 1.3 to 1.10  | RDSO spec ELRS/SPEC/ELC/0019 Rev-2 or latest for working voltages upto 1.8/3 kV. |
| 3     | From S.No. 1.11 to 1.12 | CLW specification CLW/ES/3/0458 Alt E (or latest) and other relevant standards   |
| 4     | From S.No. 1.13 to 1.16 | CLW specification CLW/ES/3/0459 ( latest ) and other relevant standards          |

All control & data cables shall be suitable for standard connectors of different make for standard connectivity requirement in the coach and control cubicles.

- iv) The design of cables shall be finalized in consultation with RDSO during design approval stage after awarding of Purchase order. Any design change required

|                                                                                  |                                                             |                 |
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by RDSO shall be done by the supplier without any price repercussion to BHEL. Non- compliance of this clause shall lead to rejection of offer.

- v) To avoid failure of e-beam cables due to insect/ant/rodent bites, The supplier shall ensure the design and testing for protection of cables against insects & rodents. Charges for these tests, if any, shall be quoted by the supplier in their offer. The protection shall take care for all types of cables to be supplied.
- vi) The cables shall be derated to take care of the adverse ambient conditions. All derating factors shall be applied, together with the maximum permissible conductor temperature for the particular insulation type. In no case the conductor continuous temperature shall exceed 90° C. The maximum short circuit temperature shall not exceed 250° C. The cable insulation shall be capable of withstanding these temperatures. The supplier shall submit the guidelines for selection of cable cross section with regard to current rating for continuous operation. The reducing factors for increased ambient temperature, different conductor temperature, bundling factors & different frequency for different installation methods shall be submitted by supplier for calculating current rating of cables for continuous operation under service conditions.
- vii) The cables for wiring will use high grade electrolytic copper stranded conductors tinned as per approved international standards and practice.
- viii) The material of insulation and sheath of each core and layer in the cable must be mentioned in the datasheet of the cable.
- ix) The thickness of insulation and sheath of each core and layer in the cable must be mentioned in the datasheet of the cable.
- x) The standard to which Cables conform shall also be mentioned in the datasheet.
- xi) The Cables in the multi-core cables shall be provided with multi colours for ease of wiring. The color details of cables shall be decided in consultation with RDSO/ICF.

|                                                                                  |                                                             |                 |
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xii) The type test reports for the cables as per clause 1.2 conforming to the standards mentioned at S.No.(iii) shall be submitted by the supplier. In case, the cable needs to be type tested, then the supplier shall submit the type test procedure which shall be finalized in consultation with RDSO during detail design stage after awarding of Purchase order.

xiii) Routine Test Procedure for all the cables as per clause 1.2 shall be submitted by the supplier.

xiv) The place of manufacture of cables shall also be declared by supplier.

xv) Reliability Data :- The supplier shall provide the reliability data of equipment , expressed in Mean Time between Failure (MTBF) and Mean Distance Between Failure along with the method of calculation . The MTBF shall be submitted for the ambient temperatures of 45°C, 50°C and 55°C.

xvi) The cables shall be suitable for following operational and environmental conditions:

- Excessive vibrations that are experienced because of prevalent track maintenance conditions in India.
- Prevalence of high temperature and humidity for the most part of the year.
- Operation of the EMU over a humid and salty terrain in which the climate varies from high rainfall for 4-5 months and extremely dusty atmosphere during rest of the year.

## 2.2 TESTING OF CABLES

The supplier shall submit Routine and Type Test Protocol for each type of cable. The type testing shall also include testing as per following standards: IEC 60332-1 (1993); 60332-3 (1992); 60754-2 (1991) Amendment 1 (1997) ; 61034-2 UIC 895, UIC 541-2, UITP Part 2; VDE 0298-T3. If the supplier has already done the type testing , then type test reports shall be submitted for approval of RDSO. The Approval letters from RDSO/ICF/CLW/RCF/IR shall also be submitted.

## 2.3 DESIGN REQUIREMENTS TO BE PROVIDED BY SUPPLIER:

|                                 |                            |
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| • Write-up/ description of each | to be provided by supplier |
|---------------------------------|----------------------------|

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| equipment                                                                       |                                                                                                                                                                                                                                                                                                |
| • Datasheets of the Cables                                                      | to be provided by supplier                                                                                                                                                                                                                                                                     |
| • Type & Routine test protocol procedure<br>• Type test reports                 | Supplier to submit the complete reports of type test already conducted on the proposed/offered equipment.<br>In case type test is required to be done, supplier to submit the detailed test procedures for approval.<br>Routine Test protocol shall be submitted by supplier with their offer. |
| • Performance statement                                                         | to be provided by supplier in the attached format.                                                                                                                                                                                                                                             |
| • Performance certificate                                                       | to be provided by supplier in the attached format                                                                                                                                                                                                                                              |
| • Approval letter (conforming to the latest RDSO/CLW/ICF/IR spec as applicable) | to be provided by supplier                                                                                                                                                                                                                                                                     |
| • Technical Manual                                                              | To be provided by supplier                                                                                                                                                                                                                                                                     |
| • Operational and Maintenance Manual                                            | To be provided by supplier                                                                                                                                                                                                                                                                     |
| • MTBF & MDBF Data                                                              | To be provided by supplier                                                                                                                                                                                                                                                                     |

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## **SECTION – 3**

### **PROJECT DETAILS AND GENERAL SPECIFICATIONS**

#### **3.0 GENERAL**

This section stipulates the General Technical Requirements under the contract and will form an integral part of the Technical Specification.

The provisions under this section are intended to supplement general requirements for the materials, equipment and services covered under other sections and are not exclusive.

However in case of conflict between the requirements specified in this section and requirements specified under other sections, the requirements specified under respective sections shall hold good.

#### **3.1 INSTRUCTION TO BIDDERS**

The bidders shall submit the technical requirements, data and information as per the technical specification, provided in Section-2.

The bidders shall furnish catalogues, engineering data, technical information, design documents, drawings etc fully in conformity with the technical specification. Unless brought out clearly, the Bidder shall be deemed to conform to this specification scrupulously.

#### **3.2 GENERAL DESIGN REQUIREMENTS**

- i) 3-phase drive equipment's should be capable of being mounted in the H.T. compartment of the motor coaches, which shall not exceed 3.5 m in length along the track. Fitment of various equipment's will be so decided that the weight is properly distributed with least possible weight unbalancing during tare condition. Mounting of converter/inverter panels on the roof or under frame is not permitted. The traction transformer and compressor shall be mounted in the under carriage/under frame.
- ii) The traction equipment shall be suitable for operation with 25 KV AC, 50 Hz supplied by overhead contact wires. The control equipment shall be suitable to permit multiple operation up to 18 (eighteen) coach formation of 06 (six) basic units where each basic

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unit shall comprise of 01 (one) motor coach and 02 (two) associated trailer coaches. In case of MEMUs the control equipment shall be suitable to permit multiple operation up to 20 (twenty) coach formation of 05 (five) basic units where each basic unit shall comprise of 01 (one) driving motor coach and 03 (three) associated trailer coaches.

- iii) Trailer coaches of 3-phase drive equipment of same make shall be interchangeable from one rake to another rake in any position in the formation of rake and vice versa.
- iv) The stock fitted with the supplied equipment shall meet the operating/service conditions and performance requirements as specified in section 3.3 Ambient conditions/operating conditions of this specification respectively and shall be suitable for varying loading conditions.
- v) The entire equipment shall be designed to ensure satisfactory and safe operation under the running conditions specified in section 3.3 Ambient conditions/operating conditions and especially under sudden variations of load and electric pressure as may arise under working conditions due to faulty operation and short circuits. The design shall also facilitate erection, inspection, maintenance and replacement of the various units comprising the equipment.
- vi) All working parts of the control and auxiliary circuit specifically electronics and PCBs, shall be suitably covered in cubicles with essential interlocks/keys to keep them free from moisture and dust. The protection level (IP level) shall be furnished by the supplier during design approval.
- vii) All the electrical equipment's shall comply with the latest edition of IEC specifications unless otherwise specified. The temperature rise shall be measured according to the procedure stipulated by IEC and shall comply with the limits specified and the ambient conditions defined in this specification. Specified temperature rise of equipment shall be calculated after taking into account at least 25 % choking of air filters and radiator fins etc.
- viii) All equipment's shall be adequately earthed, insulated, screened or enclosed. They shall be provided with essential interlocks and keys as may be adequate to ensure the protection of the equipment and the safety of those concerned with its operation and maintenance.



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- ix) Supplier shall study the currently available lubricants/cooling oils in India and employ these as far as possible. Full lubrication scheme and schedule for the equipment shall be submitted.
- x) The design of the equipment shall be based on sound, proven and reliable engineering practices. The equipment used in different sub systems shall be of proven technology and design. The supplier shall submit the supportive document for each of the assembly/sub-assembly for its proven performance under the environmental conditions prevalent in India.
- xi) Notwithstanding the contents of this specification, the supplier shall ensure that the equipment supplied by them is complete in all respect so as to enable the desired operation of the EMU fitted with their equipment.
- xii) The specification has been prepared for the general guidance of the Supplier. Deviation from this specification may be proposed if it intends to improve the performance, utility and efficiency of the EMU/MEMU as a whole or part thereof as options with cost of withdrawal of deviation. All such deviations shall be accompanied with complete technical details and justification for the proposed deviation.

### 3.3 AMBIENT CONDITIONS / OPERATING CONDITIONS

The Electrical Multiple Units (EMUs) are running in all the four metros Mumbai, Kolkata, Chennai and Delhi for commuter services. Except in Mumbai, these EMUs are operating at 25 kV AC OHE voltage fed through pantograph and vacuum circuit breaker mounted on the roof of the motor coach. The incoming power supply is fed to the primary of the main transformer and stepped down to a lower voltage, converted into AC voltage through IGBT based Converter and inverters and fed to four (04) parallel connected 3 phase traction motors.

For AC EMU, the configuration of the coaches is as below:

**DMC-TC1-TC2-TC2-TC1-NDMC-NDMC-TC2-TC1-TC2-TC1-DMC**

DMC : Driving Motor Coach

TC1/TC2/TC3/TC4 : Trailer Coach

NDMC : Non-Driving Motor Coach

The equipment shall be designed to work satisfactorily under following environmental conditions :-

|                   |                                                |
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| Relative Humidity | Up to 98% saturation during rainy season which |
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|                                                          | may be as long as five (5) months.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Ambient temp.                                            | i) Max. 50° C<br>ii) Min. 0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Average annual ambient temperature                       | 35°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum temperature inside HT compartment of motor coach | Max. 55° C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Stationary rake temperature                              | The temperature of stationary rake may go as high as 70-75 °C. The equipments shall not be adversely affected in any way due to exposure to such high temperatures. Supplier shall furnish the precautions taken in equipment/ component selection in order to conform to this requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Altitude                                                 | coastal area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Rainfall                                                 | <p>Very heavy and continuous (up to 2500mm during rainy season) All underslung equipment shall be designed suitably to ensure its normal working even in adverse conditions as above.</p> <p>The equipment shall be so designed to run at 8 Km/h through water up to 203 mm above rail level, allowance to be made in addition for increase in the height of water level due to wave effect. In case of flood level increasing more than 203mm, the EMU shall be made dead.</p> <p>There are certain sections of the track that get flooded with water to standing depth of 760mm.</p> <p><b>The traction gear and other under slung equipment must be completely water proof to this height above rail level. During the peak flood condition water may reach up to floor level. The equipment shall not get damaged due to such flooding and it should be possible to rejuvenate the equipment with minor attention without any adverse effect on their performance.</b></p> |
| Atmosphere during                                        | Extremely dusty, humid and salty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| hot weather | The EMU shall be working primarily in coastal area and thus shall be continuously exposed to highly corrosive, salty atmosphere along with industrial pollutants.<br>Special care shall be taken to ensure no damage to equipment due to deposition of atmospheric salts and industrial pollutants. Supplier shall enclose details of specific measures adopted to ensure the satisfactory working of equipment against the deposition of salts & industrial pollution. |
| Vibrations  | The vibration levels at some intermittent points on the track may be higher than those specified by the relevant IEC publication (IEC 61373). The suspension system and the mounting arrangements shall be so designed that the equipment's performance is not adversely affected due to such high vibrations and shocks.                                                                                                                                               |

### 3.4 STANDARDS

The equipment covered by the specification shall be designed, engineered, manufactured, built, tested and commissioned in accordance with the Acts, Rules, Laws and Regulations of India.

The equipment to be furnished under this specification shall conform to latest issue (with all amendments) of specified standards.

In addition to meeting the specific requirement called for in Sections 2 of the Technical Specification, the equipment shall also conform to the general requirement of the applicable standards, which shall form an integral part of the specification. The Bidder shall note that standards mentioned in the specification are not mutually exclusive or complete in themselves, but intended to complement each other. When the specific requirements stipulated in the specifications exceed or differ from those required by the applicable standards, the stipulation of the specification shall take precedence.

Other internationally accepted standards, which ensure equivalent or better performance than that specified in the standards referred, shall also be accepted. The bidder shall submit copies of such standards.

### 3.5 SERVICES TO BE PERFORMED BY THE EQUIPMENT BEING FURNISHED

All equipment shall also perform satisfactorily under various other electrical, electromechanical and meteorological conditions of the site of installation. All equipment shall be able to withstand all external and internal mechanical, thermal and

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electromechanical forces due to various factors like wind load, temperature variation, ice & snow, (wherever applicable) short circuit etc for the equipment.

### 3.6 ENGINEERING DATA

#### 3.6.1 DRAWINGS

The contactor shall necessarily submit all the drawings/ documents unless anything is waived. The contactor shall submit 6 (six) sets of drawings/ design documents/ data/ test reports as may be required for the approval of the purchaser. All drawings submitted by the Manufacturer including those submitted at the time of bid shall be in sufficient detail to indicate the type, size, arrangement, material description, Bill of Materials, weight of each component, break-up for packing and shipment, the external connections, fixing arrangement required, dimensions required for installation and interconnections with other equipment and materials, clearances and spaces required for installation and interconnections between various portions of equipment and any other information specifically requested in the specifications.

Each drawing submitted by the Manufacturer shall be clearly marked with the name of the Customer and Project, the unit designation, the specifications title, the specification number, date of revision (if any), duly signed by the concerned technical person. If standard catalogue pages are submitted, the applicable items shall be indicated therein and should be made project specific. All titles, noting, markings and writings on the drawing shall be in English. All the dimensions should be in metric units.

Further work by the Manufacturer shall be in strict accordance with these drawings and no deviation shall be permitted without the written approval of the Purchaser, if so required.

All manufacturing and fabrication work in connection with the equipment prior to the approval of the drawings shall be at the Manufacturer's risk. The Manufacturer may make any changes in the design which are necessary to make the equipment conform to the provisions and intent of the Contract and such changes will again be subject to approval by the Purchaser. Approval of Manufacturer's drawing or work by the Purchaser shall not relieve the manufacturer of any of his responsibilities and liabilities under the Contract.

All engineering data submitted by the Manufacturer after final process including review and approval shall form part of the Contract Document and the entire works performed under these specifications shall be performed in strict conformity, unless otherwise expressly requested by the Owner in Writing.

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The title block of drawings shall contain the following information incorporated in all contract drawings

|                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Customer :</b> BHEL /Indian Railways                                                                                                                        |
| <b>2. Project:</b> DESIGN, DEVELOPMENT, MANUFACTURE, SUPPLY, TESTING & COMMISSIONING OF 25kV AC THREE PHASE INDIGENOUS PROPULSION & OTHER EQUIPMENTS FOR AC EMUs. |
| <b>3. Contract No./LOA No. :</b> 2010 Elect/Dev/181/8 Dated 23.11.2010                                                                                            |
| <b>4. Main Contractor : Bharat Heavy Electricals Limited</b>                                                                                                      |
| <b>5. BHEL Order No. &amp; Date :</b>                                                                                                                             |

### 3.6.1.1 SIZE OF DRAWINGS

The drawings of the following parts shall be to the sizes indicated below

- i. Equipment details – full size or half size
- ii. Motor Assemblies – 1:5
- iii. General Assemblies- 1:10

The dimensions, weight, capacity etc shall be in SI units. All drawings shall be submitted on CDs in Auto CAD format along with the complete setup for reading, editing and taking the prints, in case the format is not compatible. This would include supply of relevant software and customized hardware, if any.

### 3.6.1.2 METHOD OF FILING OF DRAWINGS

To facilitate filing of drawings, it is essential that each drawing submitted for approval is marked so that it can be identified. The supplier is, therefore, required to ensure that all prints are marked legibly at the right hand bottom corner. The following information is required in respect of each drawing:

- I. Supplier's drawing number.
- II. Supplier's name and date of submission.
- III. Contract no. given by the purchaser.
- IV. Description of drawings.
- V. Relevant Specifications

### 3.6.2 PHOTOGRAPHS

While the equipment is under manufacture, photographs shall be taken of the various assemblies and sub-assemblies in various stages of production. Photographs shall not

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be less than 380 x 255 mm in size and shall be taken on non-curl films. The negative and three prints of each shall be furnished to the purchaser. The print should be mounted on sheets to form complete sets. Photographs on digital media and videos shall also be furnished.

### 3.6.3 BINDING

Each set of tracings together with a set of photographs shall be suitably bound within a cover of superior quality durable materials with the title block printed on the outside of the cover.

### 3.7 MARKING OF EQUIPMENT & RATING PLATE

All main assemblies of the equipment shall bear serial number for identification and initials of the purchaser. Where the sub-assemblies/components of the main assemblies are not inter-changeable, the sub-assemblies shall also be marked with the serial nos. of the main assembly of which they form a part.

All equipment/cubicles shall contain rating plates of anodized aluminum with embossed letters. The rating plate will give detailed rating specification and identification of equipment. The details of rating plate of each of the equipment shall be as approved by RDSO.

### 3.8 INFRINGEMENT OF PATENT RIGHTS

BHEL and Indian Railway shall not be responsible for infringement of patent rights arising due to similarity in design, manufacturing process, components used in design, development and manufacturing of propulsion system & other equipments and any other factor which may be a cause such dispute. The responsibility to settle any issue lies with the manufacturer.

### 3.9 DOCUMENT SUBMISSIONS

The scheduled dates for the submission of these as well as for, any data/information to be furnished by the Purchaser would be discussed and finalised at the time of award. The following schedule shall be followed generally for approval.

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| Sl.no. | No. of copies                                                                      | Schedule                                                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i)     | Initial Submission Drawings, Data sheets, Type test Reports                        | 2 weeks from the date of award                                                                                                                                                                                                  |
| ii)    | Furnishing of distribution copies of drawings in bound volume                      | 4 Weeks from the date of award. Six (6) copies for Railways plus two (2) copies for BHEL.                                                                                                                                       |
| iii)   | Furnishing of distribution copies of type test reports in bound volumes            | Hard copy to be submitted 1 Week from the date of type test and total six (6) copies for Railways plus two (2) copies for BHEL to be given.<br>Soft copy to be submitted immediately after the completion of the test by email. |
| iv)    | Furnishing of distribution copies of Routine test reports                          | Hard copy to be submitted 1 Week from the date of routine test and<br>Six (6) copies for Railways plus two (2) copies for BHEL to be given. Soft copy to be submitted immediately after the completion of the test by email.    |
| v)     | CD-ROM/ Optical Disc of all documents including Operational & Maintenance manuals. | 4 Weeks from the date of award.<br>3 sets of hard copy and soft copy in editable format i.e. MS word/ MS excel.                                                                                                                 |

### 3.10 QUALITY ASSURANCE PROGRAMME

To ensure that the equipment and services under the scope of this Contract, whether manufactured or performed within the Manufacturer's Works or at his Sub-manufacturer's premises or at the Purchaser's site or at any other place of Work, are in accordance with the specifications, the Manufacturer shall adopt a suitable quality assurance programme to control such activities at all points, as necessary. Such programme shall be outlined by the Manufacturer and shall be finally accepted by the Purchaser after discussions before the award of Contract. A quality assurance programme of the manufacturer shall generally cover the following:

- Manufacturer's organization structure for the management and implementation of the proposed quality assurance programme;
- Documentation control system;
- Qualification data of bidder's key personnel;

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- d) The procedure for purchases of materials, parts components and selection of sub-Manufacturer's services including vendor analysis, source inspection, incoming raw material inspection, verification of material purchases etc.
- e) System for shop manufacturing and site erection controls including process controls and fabrication and assembly control;
- f) Control of non-conforming items and system for corrective actions;
- g) Inspection and test procedure both for manufacture and field activities;
- h) Control of calibration and testing of measuring instruments and field activities;
- i) System for indication and appraisal of inspection status;
- j) System for quality audits;
- k) System for authorizing release of manufactured product to the Purchaser
- l) System for maintenance of records;
- m) System for handling storage and delivery; and
- n) A quality plan detailing out the specific quality control measures and Procedures adopted for controlling the quality characteristics relevant to each item of equipment furnished and/or services rendered.

The Purchaser or his duly authorized representative reserves the right to carry out quality audit and quality surveillance of the system and procedure of the Manufacturer/'his vendor's quality management and control activities.

### **3.10.1 QUALITY ASSURANCE DOCUMENTS**

The Manufacturer shall be required to submit the following all the Quality Assurance Documents as stipulated in the quality plan at the time of purchasers inspection of equipment/ material.

### **3.11 TYPE AND ROUTINE TESTING & INSPECTION**

The individual equipment, systems and sub systems shall be type and routine tested in accordance with the relevant IEC/UIC publications inclusive of the mandatory and optional tests along with the special tests as specified.

All type tests shall be carried out at the Supplier's cost where ever performed in presence of and to the satisfaction of RDSO, who reserves the right to witness any or all of the tests.

Wherever any equipment, system, sub system is not specifically covered by an international recognized specification or test procedure, the tests which are acceptable to both to Supplier and to the IR's representative shall be devised. Without prejudice to any provisions of the contract, the purchaser reserves the right to witness



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any or all of the type tests and to require submission of any or all test specification and reports.

The price of conducting all tests and additional type tests is deemed to be included in Bid price. In case any bidder indicates that he shall not carry out a particular test, his offer shall be considered incomplete and shall be liable to be rejected.

The Purchaser, his duly authorized representative and/or outside inspection agency acting on behalf of the Purchaser shall have at all reasonable times free access to the Contractors premises or Works and shall have the power, at all reasonable times to inspect and examine the materials and workmanship of the works during its manufacture or erection if part of the Works is being manufactured or assembled at other premises or works, the Manufacturer shall obtain for the Engineer and for his duly authorized representative permission to inspect as if the works were manufactured or assembled on the Manufacturer's own premises or works. Inspection may be made at any stage of manufacture, dispatch or at site as the option of the Purchaser and the equipment if found unsatisfactory due to bad workmanship or quality, material is liable to be rejected.

In all cases where the Contract provides for tests whether at the premises or at the works of the Manufacturer or of any Sub-Contractor, the Manufacturer except where otherwise specified, shall provide free of charge items such as labor, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably demanded by the Purchaser /Inspector or his authorized representative to carry out effectively such tests of the equipment in accordance with the Contract and shall give facilities to the Purchaser Inspector or to his authorized representative to accomplish testing.

The inspection by Purchaser and issue of Inspection Certificate thereon shall in no way limit the liabilities and responsibilities of the Manufacturer in respect of the agreed quality assurance programme forming a part of the Contract.

The Purchaser reserves the right for getting any field tests not specified in respective sections of the technical specification conducted on the completely assembled equipment at site.

During the prototype tests/trials or services, if any problems arise or feed back information is obtained, which warrants a re-check of the design/manufacture/quality of the equipment and components, action will be taken as may be necessary by the

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Supplier to carry out the required investigations and to incorporate the improvements considered most appropriate to reach compliance with the specification without any extra costs to the Purchaser.

The prototype rakes fitted with the supplied equipment, shall be subjected to pre-revenue service trials. Service trials are intended to prove the satisfactory running performance of the supplied EMU equipment and evaluate their reliability in service, ease of maintenance and operations. The performance of the equipment shall be assessed based on the experience gained during the service trials. Necessary modification as required and also as desired by the RDSO shall be implemented in the series production without any extra costs to the Purchaser.

Before carrying out any modification, as found necessary on the basis of tests and trials, the drawings and execution plan shall be got approved from the RDSO.

### **3.12 MATERIALS AND WORKMANSHIP**

Equipment materials and components shall be new, of high grade and good quality and be to the latest engineering practice. The material and workmanship throughout shall be in accordance with the purpose for which they are intended. Each component shall be designed to be consistent with its duty.

All the information concerning materials or components to be used in manufacturing, machinery, equipment, materials and components supplied, installed or used shall be submitted for approval. Without such approval the supplier shall run risk of subsequent rejection. The cost as well as time delay associated with such rejection shall be borne by the supplier.

### **3.13 PACKING AND STORAGE**

All the equipment's shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at site till the time of erection. On request of the purchaser, the manufacturer shall also submit packing details/ associated drawing for any equipment/ material at a later date, in case the need arises.

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While packing all the materials, the limitation from the point of view of availability of Railway wagon sizes in India should be taken into account. The manufacturer shall be responsible for any loss or damage during transportation, handling and storage due to improper packing. Any demurrage, wharf age and other such charges claimed by the transporters, railways etc shall be to the account of the manufacturer. Purchaser takes no responsibility of the availability of the wagons.

All coated surfaces shall be protected against abrasions, impact, discoloration and any other damages. All exposed threaded portions shall be suitably protected with either a metallic or a non-metallic protecting device.

Supplier shall ensure that equipment shall be properly packed, blocked, padded, coated and protected so that it is not damaged due to possible mishandling. Storage requirements shall be clearly defined by the supplier. Packing shall be such that if required, long time storage at site should not deteriorate the performance of the equipment.

### **3.14 FIRE PREVENTION**

- i) The equipment's shall be designed to minimize the risk of any fire.
- ii) Materials used in the manufacture of equipment's shall be selected to reduce the heat load, rate of heat release, propensity to ignite, rate of flame spread, smoke emission and toxicity of combustion gases.
- iii) The Supplier shall comply with DIN 5510 standard for fire safety plan in respect of their equipment and fire fighting measures in passenger carrying railway vehicles.

### **3.15 MAINTENANCE MANUAL, SPARE PARTS CATALOGUE & MATERIAL SPECIFICATION**

The detailed maintenance and service manual (including the trouble shooting directory shall be prepared for the various equipment's and 3 sets of hard copies & soft copy of the same shall be supplied free of charge.

Detailed spare parts catalogue listing all components manufactured or purchased by the supplier along with their rating, source & schematic position etc. (40 copies) each shall also be supplied free of charge.

The documentation shall be provided on compact discs & floppies (5 no's) along with relevant software and complete arrangements to read them or edit them in future to take prints in color.

|                                                                                   |                                                             |                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------|
|  | <b>TECHNICAL SPECIFICATION FOR POWER AND CONTROL CABLES</b> | PROJECT- AC EMU |
|                                                                                   | DOC. No. : TSG-AC EMU- SPEC/028 REV No. 04                  | PI No.          |
|                                                                                   |                                                             | WORK ORDER No.  |

### **3.16 MAINTAINABILITY**

Bidder shall submit the basic maintenance schedules of the proposed equipment. Minimum interval between two maintenance schedules for the equipment supplied under the specification in the depot shall be 90 days except for the panto strips and 3 years for major works in workshop/major depot.

### **3.17 RELIABILITY**

In addition to meeting the performance requirements, the equipment, shall incorporate high standards of reliability to ensure that operating cost and operation performance is optimized.

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## INSTRUCTIONS TO BIDDERS / SELLER

### A. Scope & Applicability :-

These Instructions along with all the details, terms & conditions in the RFQ and General Conditions of Contract (Document No: BHEL: EDN: SHOP: GCC: Rev00) shall apply for this REQUEST FOR QUOTATION (RFQ) and any resulting Order(s) / Agreement(s).

### B. Definitions :-

Throughout the documents referred to in A above the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- **The Purchaser** means Bharat Heavy Electricals Limited (a Central Public Sector Enterprise) incorporated under the Companies Act, 1956 having its registered office at BHEL House, Siri Fort, New Delhi-110049, India acting through its Electronics Division / Electronics Systems Division at Bangalore and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- **The Bidder** means the person, firm, company or organization to whom the RFQ is addressed / submits an offer against such RFQ and shall be deemed to include its successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor, Supplier or Vendor.

### C. General :-

1. All correspondence / clarifications shall be addressed to the contact person given in the RFQ / Purchase Order/Agreement.
2. In case of non-participation in the tender, regret letter with reason shall be sent by the vendor to the purchaser. If a vendor fails to respond against three consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL for the item.
3. All timings are Indian Standard Time (IST).
4. Bidders shall not engage the services of the firms banned by BHEL. List of such banned firms is available at website [www.bhel.com](http://www.bhel.com).

Offers of the bidders who are on the banned list/who engage the services of banned firms shall be rejected.

5. 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. Any consultant or consultant firm including any of its affiliates or associates shall not be eligible to participate in tender / s for the related goods or works or services for the same project, for which they were engaged for the consultancy services by BHEL.
7. **Agents / Representatives of OEMs / Principals :-**

- a. BHEL prefers to deal directly with Original Equipment Manufacturers (OEMs) / Principal for all its purchases. However, if the OEM / Principal insist on engaging the services of an Agent/Representative, such Agent / Representative will be allowed to represent only one OEM / Principal in the same tender. Either the Agent / Representative could bid on behalf of the OEM / Principal or the OEM / Principal could bid directly but not both. Incase bids are received from both the OEM / Principal and the Agent/ Representative, the bid received from the Agent/Representative will be ignored.
- b. Agent/Representative authorized by the OEM/Principal in turn cannot further sub authorize any other firm for submitting the offer or for placement of order.
- c. Valid Authorization letter from the OEM / Principal to quote and negotiate on behalf of OEM / Principal to be submitted by the respective Agent/Representative.

### 8. **The Purchaser Reserves the Right to :-**

- a. Cancel / retender the RFQ at any time before placement of Purchase Order / Agreement, without assigning any reason.
- b. Change the quantity to be ordered and the delivery schedule before placement of PO with mutual agreement with the seller.
- c. Adopt any method(s) of bidding including Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation

in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on [www.bhel.com](http://www.bhel.com)). The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. **The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.**

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for

suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).”

- d. Split the quantity in the RFQ among bidders for ordering.
- e. Accept / not accept whole / part of any offer(s).
- f. Accept / Reject any of the counter terms / deviations offered by bidder.
- g. Seek information / clarifications / confirmations relevant to the RFQ from the bidder(s) and fix deadlines for furnishing of the same by the bidder(s) and not to consider the offer(s) of such bidder(s) for further processing who fail to provide such information / clarifications / confirmations within the deadline fixed.
- h. Negotiate with the L1 bidder.
- i. Take necessary action as per prevalent BHEL Policy, with regard to the bidder(s) / vendor(s) who is/are
  - :- (i) Non-responsive.
  - (ii) Found to have been involved in unfair practices / actions contrary to business ethics /actions restricting competition.
  - (iii) Withdrawing offers after opening of Part I bid / s.

#### **D. Guidelines for Making the Offer :-**

1. Separate offer in English language addressed to the Purchase Executive shall be made for each RFQ in Single part/two parts/three parts as indicated in the RFQ.
2. a) **Single Part Bid:** Complete offer i.e., techno commercial bid and price bid to be made in single part. Offer shall be placed in a sealed envelope superscribed with RFQ No & Due Date.  
b) **Two Part Bid :** Offer shall be made in two parts as detailed below:  
“Techno-commercial Bid (Part I Bid) placed in a sealed envelope super scribed with RFQ No , Due date & “Techno Commercial Bid (Part I Bid)” & “Price Bid (Part II Bid)” placed in a separate sealed envelope superscribed with RFQ No, Due Date & “Price Bid (Part II Bid)”. Both the sealed envelopes shall be placed in another sealed envelope superscribed with RFQ No & Due date  
c) **Three Part Bid:** Offer shall be made in three parts as detailed below:  
“Pre-Qualification Bid (Part I Bid)” in a sealed cover superscribed with RFQ No, Due Date and “Pre-Qualification Bid (Part I Bid)”, “Techno-commercial Bid (Part II Bid )” placed in a separate sealed envelope super scribed with RFQ No , Due date & “Techno commercial Bid (Part II Bid)” & “Price Bid (Part III Bid)” in another separate sealed envelope superscribed with RFQ No, Due date and “Price Bid (Part III Bid)”. All the three sealed envelopes shall be placed in another sealed envelope superscribed with RFQ No & Due date.
3. Offers for RFQs on EPS (E-Procurement System) shall be made only on the template on EPS portal. All documents as required shall be uploaded on the portal.
4. Offer shall be in accordance with and complete in all respects with regard to the requirements of the RFQ.
5. Offers of Vendors who already have a valid Technical/Commercial MOU with BHEL-EDN for the items of the RFQ shall mention the relevant MOU reference No and give only such other details not covered in the MOU.
6. Corrections / overwriting shall be avoided. Corrections if any shall be respectively incorporated in all the bids (part-I / II / III i.e, Prequalification Bid / Techno-commercial Bid/ Price Bid) as applicable and shall be duly authenticated at each instance of correction by the authorized signatory with name and designation.
7. Offer shall have a minimum validity period of 90 days from the due date of the RFQ.
8. Please refer Clauses E and F below for Standard Commercial Terms and commercial deviations and loading of offers.
9. Bidders to be considered as Micro and Small Enterprises (MSEs) are required to submit the documents as per **Annexure I**.
10. **Non acceptance/deviations if any to the terms and conditions of the RFQ shall be clearly and explicitly mentioned in the offer, otherwise it will be treated that all the terms and conditions of the RFQ are accepted by the bidder in total.**
11. **Pre-Qualification Bid:** Shall have all details required as per RFQ along with documents as applicable.
12. **Techno Commercial Bid:**
  - a. Shall include BHEL material code and description as per RFQ and details of the item offered including make/model/part no along with relevant documents like drawings/data sheets/catalogs/BOMs etc. as applicable.
  - b. Commercial terms such as delivery period, delivery terms, payment terms, taxes and duties as applicable. Delivery quoted shall be earliest firm in terms of no of days/weeks/months from the date of PO/Drawing Approval/Manufacturing clearance as applicable. It is recommended to avoid delivery terms such as ‘ex-stock’, ‘subject to prior sale’ or ‘delivery at the earliest’, ‘subject to release of PO within ----- period’ and ‘delivery range eg X-Y weeks’. **(Please Refer Clause 15 of General Conditions of Contract (Document No: BHEL: EDN: SHOP: GCC: Rev00) is applicable for delayed deliveries)**
  - c. Bidders should mention GSTN number of the place of supply and HSN (Harmonized System of Nomenclature)/SAC(Services Accounting Code) number in the offer. In case both supply and service are involved, GSTN no of the place of supply for services shall also be mentioned separately in the offer if it's different.

### 13. Price Bid:

- Most competitive price(s) to be quoted.
- Shall include Price details such as currency ,item unit price, total price, discounts if any, packing forwarding charges ,freight, insurance , taxes(SGST/IGST/CGST/UTGST) as applicable.
- Quoted price(s) shall be FIRM and valid till the complete execution of Purchase Order / Agreement, except where price variation is specifically included in RFQ terms in which case the price(s) quoted shall be in accordance with the price variation formula given in the RFQ.**
- Prices in both figures and words to be indicated.
- The price quoted against each item shall be for units stated in the RFQ. Where quotation is in terms of a unit other than that in the RFQ, relationship between the two units shall be clearly brought out.

#### E. Purchaser's Standard Commercial Terms :-

1. Unless specified otherwise in the RFQ , following are the Purchaser's standard commercial terms:-

| Sl No | Description                                                      | For Purchase within India                                                                                                                                                                                                                                                                                                                                                                                                                   | For Foreign Purchase(Direct Imports)                                                                                                                                                                                                                                                                     |
|-------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i     | <b>Delivery Terms</b>                                            | Door Delivery to BHEL Stores, Bangalore with Freight and Insurance paid.                                                                                                                                                                                                                                                                                                                                                                    | FCA International Gateway Airport (For shipment by air, Refer <b>Annexure II</b> for details) <b>OR</b><br><br>CIF, ICD Bangalore. Port of discharge either Mumbai/Chennai (for shipment by sea)                                                                                                         |
| ii    | <b>Payment Terms</b>                                             | <b><u>100% direct payment with 45 days credit from the date of :</u></b><br>a) Receipt of material for Door delivery BHEL stores<br>b)Receipt of complete set of documents for High Sea Sales<br>c)Invoice for Ex-works delivery                                                                                                                                                                                                            | 100% against sight draft with 45 days credit on negotiation of complete set of documents.                                                                                                                                                                                                                |
| iii   | <b>Reckoning of Delivery Date</b>                                | <b><u>For Door Delivery at BHEL Stores:-</u></b><br>Date of receipt of material at BHEL Stores.<br><br><b><u>For Delivery Terms of Ex-works /Negotiation of Documents Through Bank:-</u></b><br>Date of invoice<br><br><b><u>Where Pre Shipment Inspection at seller's works is applicable :-</u></b><br>Inspection call for the date on which material is ready for inspection supported with documents such as TC's/ COC's as applicable. | <b><u>For Delivery Terms of Ex-works :-</u></b><br>Date of invoice<br><br><b><u>For Delivery Terms of CIP/ FCA</u></b><br>Date of House Airway Bill(HAWB) /<br>Date of receipt by BHEL's Freight Forwarder whichever is earlier<br><br><b><u>For Delivery Terms of CIF</u></b><br>Date of Bill of lading |
| iv.   | <b>Penalty for Delayed Delivery</b>                              | As per clause 15 of General Conditions of Contract (DOC .NO.BHEL :EDN:GCC-SHOP:REV:00)                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                          |
| v     | <b>Cancellation/ Termination of Contract &amp; Risk Purchase</b> | As per Clause 24 of General Conditions of Contract ( DOC.NO.BHEL:EDN:GCC – SHOP :REV:00)                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                          |

2. When Bank Guaranty (BG) is applicable as per RFQ terms, the same shall be from any one of the BHEL Consortium of Banks (Refer **Annexure III**) in the prescribed format as per **Annexure IV**. The bank Guarantee shall be sent directly to BHEL by the issuing bank.



#### F. Commercial Deviations / Offered Terms & Loading of Offers :-

Unless specified otherwise in the RFQ and if the Purchaser decides to accept offers with deviations in respect of the standard commercial terms given at Clause No. E1 above, such offers will be subjected to loading on the **quoted basic material value** as detailed below:-

| SI No | Deviation on                 | Nature of Deviation / Offered Terms                                                                                                                | Loading % |
|-------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| i     | Delivery Terms               | <b>For purchase within India :-</b><br>Other than SI No.1 (i) of clause E above.                                                                   | 10        |
| ii.   | Payment Terms                | <b>For purchase within India :-</b><br>1) Payment against delivery/Proforma payment against receipt of material                                    | 15        |
|       |                              | 2) Payment against documents through bank – Delivery of material on production of consignee copy of LR                                             | 15*       |
|       |                              | 3) Credit period less than 45 days, but not less than 15 days.                                                                                     | 10        |
|       |                              | 4) Payment against documents through bank with consignment door delivered to BHEL stores (without consignee copy of LR) and 45 days credit period. | 2*        |
|       |                              | <b>For foreign purchase :-</b><br>1) Payment through At Sight Letter of Credit                                                                     | 10        |
|       |                              | 2) Payment through Letter of Credit with usance credit of 45 days                                                                                  | 5         |
|       |                              | 3) Sight Draft with credit period less than 45 days                                                                                                | 5         |
| iii   | Penalty for Delayed Delivery | 1) Non – Acceptance                                                                                                                                | 10        |
|       |                              | 2) Partial Acceptance ( X% )                                                                                                                       | (10 – X)  |

\* All bank charges shall be to seller's account. If bank charges of BHEL banker are to BHEL's account then **additional loading of 2% on the quoted basic value** is applicable.

NOTE: **Offer/ s with payment terms other than the standard payment terms indicated at E1(ii) or Deviated Payment Terms with loading indicated at F(ii) above are liable for rejection.**

#### G. Submission of Offers:

Offers shall be submitted as indicated below **within the due date and time** indicated in the RFQ/Any subsequent change intimated by Purchaser.

| SI No. | Offer For   | Mode of Submission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i      | RFQs on EPS | Shall be made on the EPS (e-Procurement System) portal in line with the instructions given therein.<br><b>Notes :</b><br>a) To quote for the RFQs published through EPS vendors should have class III, 2048 Bit digital signature certificate (DSC) for both encryption and signing obtained from Certifying Authority (CA) authorized by Govt. of India through their Licensed Registering Authority (LRA).<br>b) All required documents shall be uploaded before due date and time. Availability of power, internet connectivity, etc. is the sole responsibility of the bidder. Assistance required if any, may be availed from the Seller's Manual available on EPS portal of BHEL/ help line numbers of BHEL's Service Provider |
| ii     | Other RFQs  | Shall be dropped in the appropriate tender box as per details given in the RFQ<br>OR<br>May be Sent through post/courier/Fax/Email/EDI to the Purchase Executive/Fax No/Email ID indicated in the RFQ *<br>* Bidders may adopt this mode at their own risk. The Purchaser does not own any responsibility / liability for delays in receipt / loss of secrecy of such offers. Such offers shall be received well in advance to enable them to be dropped in the tender box in time.                                                                                                                                                                                                                                                  |

NOTE :

**OFFERS RECEIVED BEYOND DUE DATE AND TIME WILL NOT BE CONSIDERED**

**H. Processing of Offers Received:**

1. Only offers received in the mode and within the due date and time indicated in RFQ will be considered for processing.
2. The following offers may not be considered for processing
  - a) Incomplete
  - b) Conditional
  - c) With deviations other than listed in clause F above
3. If non acceptance to any of the terms & conditions of the RFQ or deviations if any are not clearly mentioned in the offer, it will be treated that all the terms & conditions of the RFQ are accepted by the bidder in total.
4. If offer is revised within the due date and time of the RFQ on e-Procurement System, latest will be available for processing. In other cases the latest offer will be considered for processing only when there is a clear indication of the same, otherwise BHEL reserves the right to consider/not consider any of the offers received.
5. **For offers on EPS, in case of any contradictions/inconsistency between the offered details on the bid template and those in the attachments, the offered details on the bid template only will be considered.**
6. If a range is given for delivery, longest duration in the given range will be considered as the quoted delivery. If any drawing / sample / technical datasheets/Quality Assurance Plan approval or Manufacturing Clearance by Purchaser is involved the quoted delivery will be considered from the date of such Approval / Clearance by the Purchaser. Bidder to clearly indicate the time (in terms of no of days / weeks from the date of PO) for submission of such Drawings /Data Sheets/ Samples/QAP to the Purchaser.
7. Changes in offer (Impact Bid)/Discounts or revised offers given after opening of Part-I bid will not be considered unless the same is sought by the Purchaser due to any change(s) in technical scope and / or specifications and / or commercial terms & conditions. In case of withdrawal of any Technical/Commercial deviation(s) by the bidder before opening of price bids, revision of price/impact bid will not be considered.
8. Any discount on the already submitted offer by the bidder on its own will be considered provided it is received on or before the due date and time of offer submission and clearly mentions "Discount offer to be considered along with the original offer "(on the envelope also). The discount will be applied on pro-rata basis to all the items unless mentioned otherwise by the bidder.
9. In case of two / three part bids, price bids of the techno-commercially accepted offers, only will be opened on a subsequent date, with prior intimation.
10. Offers considered with commercial deviations will be subject to loading as per clause F above.
11. In case BHEL decides to go for Reverse Auction Guidelines as **per Annexure V** are applicable. Only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "**online sealed bid**" in the Reverse Auction. Non submission of "**online sealed bid**" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. In case BHEL decides **NOT to adopt Reverse Auction** method of bidding, the sealed price bids and price impacts if any, of all the techno commercially qualified bidders already submitted and available with BHEL shall be opened as per BHEL's standard practice.
12. Evaluation of Price bids will be done on the basis of "**Total Cost to Purchaser**" taking into consideration:
  - d) Basic material value, taxes and duties, packing and forwarding charges, freight and insurance, any other costs and loading for deviations if any, as applicable.
  - e) CENVAT/MODVAT/VAT credit benefits available to BHEL.
  - f) Calculated costs of freight, insurance and clearance charges as applicable, for foreign purchases.
  - g) RFQ item wise prices unless specified otherwise in the RFQ terms.
  - h) The offered quantity if offered quantity is more than the RFQ quantity
  - i) For offers in foreign currency, the exchange rate (TT selling rate of State Bank Of India (SBI)) will be taken as under :-

|                                                   |                            |
|---------------------------------------------------|----------------------------|
| <b>Single Part Bids: -</b>                        | Date of tender opening     |
| <b>Two / Three part bids / Reverse Auction: -</b> | Date of Part-1 bid opening |
13. Any typographical error, totaling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per Clause 11.2.3 "Non-conformities between the figures and words of the quoted prices" of "Manual on Policies & Procedures for purchase of goods" issued by Ministry of Finance / Government of India.(Refer **Annexure VI**). BHEL's decision will be final in this regard.
14. Ranking (L-1, L-2 etc.) will be done only for the techno-commercially accepted offers.
15. Purchase Preference for MSE Vendors will be considered as per **Annexure VII**.

**I. Despatch, Invoicing and Documentation :-**

1. All goods shall be consigned to the Consignee details as given in the Purchase Order.
2. Quantity of goods in invoice / delivery challan shall tally with the goods delivered.
3. For delivery terms Ex-Works, the Seller shall intimate the readiness of goods to BHEL/BHEL's authorized freight forwarder/BHEL's authorized transporter and the goods shall be handed over to the BHEL's authorized freight forwarder/BHEL authorized transporter / agency assigned by BHEL. Goods can also be despatched as mutually agreed between BHEL and Seller.
4. Packing shall be road / rail / air / sea worthy as applicable for adequate protection against transit damages.
5. **Delivery timings at BHEL stores(On all working days) :-**  
09.00 AM to 03.00 PM (Monday to Friday)  
09.00 AM to 11.00 AM (Saturday)  
Deliveries other than the timings indicated shall be done with prior permission from the purchase executive.
6. The invoice shall be in accordance with the PO duly supported with documents as called in the PO and shall contain the following details :-  
BHEL PO No and PO Item no., BHEL material code and description, Quantity, Vendor's name, Address.  
Invoice submitted should contain all details as specified under GST Laws.
7. The rates shall be as per applicable PO rates. Indicate the basic rate, duties & taxes as applicable along with Vendor TIN number (applicable for dispatches from within India).
8. For issue of "C" Forms duly filled up format as per **Annexure VIII** shall be sent to email id: **cform@bheledn.co.in**. For invoices w.e.f 01.07.17 this clause will not be applicable.
9. **Documents :-**  
Seller shall arrange to send the documents as applicable as per **Annexure IX** to the Purchaser, along with dispatch of goods. Any addition / exclusion to such documents shall be as specified in the Purchase Order.
10. **Bidders should mention GSTIN(GST Identification number) of the place of supply and HSN (Harmonized System of Nomenclature)/SAC(Services Accounting Code) number in the invoice. In case both supply and service are involved, GSTN no of the place of supply for services shall also be mentioned separately in the offer if it's different.**
11. Applicable documents shall be submitted to the purchaser at the time of supply for availing GST input credits.  
Payment of GST as applicable will be made only if it is matching with the data uploaded by suppliers.
12. Vendors to give undertaking that GST as mentioned in the invoice has been paid/will be paid either through cash or admissible input credit and also file the returns.
13. For invoices paid on Reverse charge basis- that it is "payable on reverse charge basis " to be mentioned on the invoice.

**J. Information on Processing of Payment :-**

1. All direct payments will be made through Electronic Fund transfer (EFT). Vendor shall furnish e-payment particulars duly authenticated by their respective Bankers as per BHEL standard format (Refer **Annexure X**), if not registered with the purchaser earlier.
2. In case of High Sea Sales and Foreign Purchases, customs clearance of the consignment landed on Indian Sea / Air ports will be done by BHEL based on the original documents provided by Seller. All warehousing charges due to delay in submission of complete and or correct documents to BHEL may be charged to Seller's account.
3. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case Seller does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.
4. Bills/Invoices will be processed for payment only if they are complete in all respects, correct and supported with relevant documents as applicable. Any delays in this regard will result in consequent delays in payment.

## **GENERAL CONDITIONS OF CONTRACT FOR PURCHASE**

### **1. Applicable Conditions :-**

These General Conditions of Contract for Purchase (GCP) apply to all enquiries, tenders, requests for quotations, orders and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited, Electronics Division / Electronics Systems Division (hereinafter referred to as "BHEL" or the Purchaser) or its projects / customers. Any deviations from or additions to these 'General Conditions of Contract for Purchase' require Purchaser's express written consent. The general terms of business or sale of the Seller shall not apply to the Contract. Acceptance or receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the Seller have been accepted by the Purchaser. Purchase orders, Orders, agreements and amendments thereto shall be binding if made or confirmed by the Purchaser in writing.

### **2. Definitions :-**

Throughout these conditions and in the specifications, the following terms shall have the meanings as assigned hereunder, unless the subject matter or the context requires otherwise.

- a. **'Purchaser'** means Bharat Heavy Electricals Limited (a Central Public Sector Enterprise) incorporated under the Companies Act, 1956 having its registered office at BHEL House, Siri Fort, New Delhi-110049, India acting through its Unit Electronics Division / Electronics Systems Division at Bangalore and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- b. **'Seller'** means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the seller's successors, permitted assigns, representatives, heirs, executors and administrators, as the case may be. It may also be referred to as Contractor, Supplier or Vendor.
- c. **'Contract'** shall mean and include the Purchase Order (also referred to as the "Order" or 'PO'), letter of intent (LOI) / letter of acceptance or award (LOA) along with tender / offer / bid submitted by the Seller, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection / Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided and the samples or patterns if any to be provided under the provisions of the Contract, by the Purchaser or his representative. Any conditions or terms stipulated by the tenderer / bidder in the tender / offer / bid or subsequent letters shall not form part of the Contract unless specifically accepted in writing by the Purchaser.
- d. **'Parties to the Contract'** shall mean the Seller and the Purchaser and Party shall mean either the Seller or the Purchaser.

### **3. Order of Precedence:-**

In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be Purchase Order, LOI / LOA, specific agreement, Special Conditions of Contract and General Conditions of Contract for commercial conditions; and specific agreement on technical conditions, Special Technical Conditions and General Technical conditions, RFQ / Offer.

### **4. Interpretation :-**

In the contract, except where the context requires otherwise:-

- a. words indicating one gender include all genders;
- b. words indicating the singular also include the plural and words indicating the plural also include the singular;
- c. provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- d. "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

### **5. Ordering and Confirmation of Order :-**

The Seller shall send the acceptance of the LOI / Purchase Order within two weeks or such other period as specified/agreed by BHEL from the date of LOI / Purchase Order. Purchaser reserves the right to revoke the order placed if the order acceptance differs from the original order placed. Purchaser shall only be bound after it has agreed explicitly in writing to be in agreement with the deviations. The acceptance of deliveries or supplies by Purchaser as well as payments made in this regard shall not imply acceptance of any deviations. The Purchase order will be deemed to have been accepted by the Seller, if no communication to the contrary is received within two weeks (or the time limit as specified / agreed by the Purchaser) of the receipt of the order.

### **6. Execution :-**

The Seller shall execute the whole contract in the most approved, substantial and workman like manner as per the contracted terms. The Seller shall comply with all laws, ordinances, rules, and regulations bearing upon the performance of its obligations under the terms of the Contract.

### **7. Progress Reports and Documentation :-**

After receipt of Purchase Order, seller should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report, O & M Manuals and / or any other relevant documents as per Specification / Purchase Order, as indicated in the Purchase order. At any stage within the contract period, the seller shall notify of any error, fault or other defect found in BHEL's documents / specifications or any other items for reference. If and to the extent that (taking account of cost and time) any seller exercising due care would have discovered the error, fault or other defect when examining

the documents / specifications before submitting the tender, the time for completion shall not be extended. However if errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the seller's documents, they shall be corrected at his cost, notwithstanding any consent or approval. The Seller shall submit periodic reports as to the progress in execution of the contract and in such form as may be called for by the Purchaser. The submission and acceptance of such reports shall not prejudice the rights of the Purchaser in any manner.

**8. Product Information, Drawings and Documents :-**

The Seller shall, as per agreed date / s but not later than the date of delivery, provide information and drawings which are necessary to permit the Purchaser to use, erect, commission, operate and maintain the product. Such information and drawings shall be supplied in the number of copies agreed upon.

**9. Non-disclosure and Information Obligations :-**

The Seller shall provide Purchaser with all information pertaining to the delivery in so far as it could be of importance to Purchaser. The Seller shall not reveal any confidential information (including price) in relation to the contract in general and those which it may acquire from the purchaser during the course of execution of the contract in particular, to its own employees not involved with the tender / Contract & its execution and delivery or to third parties, or make use of such information pertaining to any data, designs, drawings, specifications and other information furnished to it by the Purchaser, unless Seller seeks a permission to do so from the Purchaser and the Purchaser has agreed to this in writing beforehand. The Seller shall not be entitled to use the Purchaser's name in advertisements and other commercial publications without prior written permission from Purchaser.

**10. Intellectual Property Rights; Licenses :-**

If any patent design, trade mark, copyright, trade secret or any other intellectual property rights apply to the products / goods supplied, or delivery or accompanying documentation, Purchaser or its Customer shall be entitled to the legal use thereof free of charges by means of a non-exclusive, assignable, transferrable, sub-licensable, worldwide, perpetual license as duly granted by the owner or licensor of such right. All intellectual property rights that arise or developed during or due to the execution of the contract or delivery of the goods by the Seller and by its employees or third parties involved by the Seller for performance of the Contract belong to Purchaser. The Seller is obliged under the contract to do everything necessary to obtain or establish the above mentioned rights in favor of Purchaser. The Seller guarantees that the execution of the contract including goods and its delivery does not infringe any of the intellectual property rights of third parties. The Seller shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of such (alleged) claims by third parties, if any. The Seller agrees to indemnify, defend, and hold harmless Purchaser, its officers, employees, agents, representatives, successors, assigns, or any of the Purchaser's customers buying or using the goods or services, against any actual or alleged infringement of such intellectual property interests or claims by third parties in this regard and shall reimburse Purchaser for any liabilities, damages, penalties, injuries, claims, demands, actions, costs and expenses (including, without limitation, reasonable legal and other professional fees and expenses) suffered as a result thereof.

**11. Inspection and Testing :-**

Prior written notice of at least 10 days shall be given along with internal test certificates / COC and applicable test certificates. Materials will be inspected by BHEL-EDN-QS/CQS or BHEL nominated Third Party Inspection Agency (TPIA) or BHEL authorized Inspection Agency or Customer / Consultant or jointly by BHEL & Customer / consultant. All tests have to be conducted as applicable in line with approved Quality plan or QA Checklist or Purchase specification and original reports shall be furnished to BHEL for verification / acceptance for issue of dispatch clearance. All costs related to inspections & re-inspections shall be borne by vendor. Whether the Contract provides for tests on the premises of the vendor or any of his Sub-contractor/s, vendor shall be responsible to provide such assistance, labour, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by BHEL only if specifically agreed to in the purchase order.

**12. Quality and Condition of the Delivery :-**

The Seller shall guarantee that the delivery:-

- a. Is of good quality and free from defects and in the case of services rendered that they are performed by skilled personnel and that new materials are used;
- b. corresponds exactly with the provisions of the Contract, the reasonable expectations of Purchaser regarding the characteristics, quality and reliability of the delivery;
- c. is suitable for the purpose for which it is intended by its very nature or which is evident from the specifications or the Contract;
- d. Complies with legal requirements applicable in India and other (international) Government regulations, as applicable.
- e. Complies with the customary norms and standards in the relevant branch of trade or industry.

The Seller shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation to its products, packaging, and raw and ancillary materials.

**13. Packaging and Dispatch :-**

The seller shall package the deliverables safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea / Air / Rail / Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures / hooks and sling marks as may be required for easy and safe handling by mechanical means. Each package must be marked with consignee name, P.O Number, BHEL material code, Package No., Gross weight & Net weight, Dimensions (LxBxH) and seller's name. The packing shall allow for easy removal and checking of



goods on receipt and comply with carrier's conditions of packing or established trade practices. **Packing list of goods inside each package with P.O item no.& Quantity must also be fixed securely outside the box to indicate the contents. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols / instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations.**

**14. Delivery :-**

Delivery shall be as per Purchase Order delivery terms. Trade terms such as DDL, FOR, EXW, FOB, CFR etc., if stipulated in the order shall be construed in accordance with the version of the INCOTERMS applicable at the time of ordering, without prejudice to the provisions contained in these conditions. The delivery date(s) or delivery period(s) as stipulated in the Contract shall be firm and binding and shall apply to the entire delivery for each PO item. Partial shipments may, however, be permitted by the purchaser.

**15. Penalty :-**

The time or period of delivery as stipulated in the schedule of delivery shall be deemed to be the essence of the contract. Should circumstances arise whereby the deadline for an agreed delivery date(s) or period(s) is expected to be exceeded, the seller shall inform purchaser hereof without delay. If delay in delivery is caused by any of the circumstances mentioned in clause 25 (Force Majeure) or which are caused exclusively by the acts of purchaser, the purchaser shall extend the time for delivery by a period which is reasonable having regard to all the circumstances in the case.

**a. For delay in documentation :-**

In the event of delay in submission of complete set of documents (like drawings, bill of materials, datasheets, catalogues, quality plan etc. as called in tender specifications including soft copies wherever applicable) in required sets beyond three weeks (or as agreed / indicated in the Purchase Order) from the date of Purchase Order, penalty at 0.5% (half percent) per week or part thereof, limited to a maximum of 5% (five percent) of the basic material value of the Purchase Order will be applicable.

**b. For delay in delivery :-**

In the event of delay in agreed contractual delivery as per Purchase Order, penalty @ 0.5 % (half percent) per week or part thereof but limited to a max of 10% (ten percent) value of delayed portion (basic material cost) will be applicable. Delivery will commence from the date of document approval by customer / BHEL or date of issue of manufacturing clearance, whichever is later in cases where such approval/manufacturing clearance is applicable as per PO. Where pre shipment inspection is applicable, the date for which Inspection call is issued by vendor along with test certificates / test reports / Certificate of Conformance / calibration reports, as proof of completion of manufacturing will be treated as date of deemed delivery for penalty calculation. In the absence of furnishing such document indicated above as proof of completion of manufacturing along with inspection call, actual date of inspection will be considered as date of deemed delivery and BHEL will not be responsible for delay in actual date of inspection. Penalty for delayed documentation/delayed delivery, if applicable, shall be deducted at the time of first payment. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be deducted.

Imposition, recovery or settlement of this penalty shall not affect any rights of the purchaser to claim enforcement of specific performance of the contract, compensation and/or to terminate the contract.

**16. Assignment of Rights & Obligations; Subcontracting:**

Vendor is not permitted to subcontract the delivery or any part thereof to third party or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from BHEL. Any permission or approval given by BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.

**17. Transfer of Ownership, title and Risk :-**

The risk for the delivery remains with the Seller until the goods are delivered at the agreed place and acknowledged by the Purchaser/his authorized representative.

**18. Price, Invoicing and Payment :-**

The agreed prices are fixed prices in the currency as specified in the Purchase Order. They shall include packing, forwarding, loading and carriage to the place specified by the Purchaser and are inclusive of all applicable taxes, duties etc. except for those specifically agreed between the Seller and Purchaser. Further, Seller shall indemnify and hold harmless Purchaser from all claims and liabilities, damages, penalties, injuries, claims, demands, actions, costs and expenses (including, without limitation, reasonable legal and other professional fees and expenses) arising from Seller's failure to report or pay any taxes, tariffs or duties for which Seller is responsible. The method of invoicing shall be without prejudice to the parties' agreement as to the place of performance. Indian Agent's commission if payable and so specified in the Purchase Order shall be paid in Indian Rupees, considering the SBI TT selling exchange rate prevailing on the date of Purchase Order, after successful completion of the contract. If so stipulated in the order, the Seller shall furnish, on receipt of the Purchase Order or along with order acknowledgement, the Billing break-up of prices (BBU) for approval by the Purchaser in respect of the major items / components going into the equipment. This BBU is required by the Purchaser for admitting the claims of the Seller if part shipments are contemplated and also to facilitate custom clearance after payment of applicable duties in case of imports. Purchaser shall be entitled to suspend payment for as long as required supporting documents / details remain outstanding and any consequential demurrage / wharfage shall be to the account of the Seller. Payment

does not imply in any respect whatsoever a waiver of Purchaser's right to performance of the Contract. Purchaser is entitled to set off claimable debts against claimable liabilities with the Seller by means of a set off note.

**19. Contract Variations; Increase or Decrease in the Scope of Supply :-**

The purchaser may vary the contracted quantities during execution, due to exigencies of project requirements with mutual consent of the seller.

**20. Guarantee / Warranty :-**

Wherever required, and so provided in the specifications / Purchaser Order, the Seller shall guarantee that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance. If within the guarantee period, the delivery is found to be non-compliant including those with the stipulations in Clause 12 (Quality and Condition of Delivery) of these Conditions, the Seller shall, for its own account, replace, repair, or re-execute the delivery at Purchaser's discretion when first requested to do so within two weeks or mutually agreed period, without prejudice to Purchaser's other legal rights. If the Seller continues to default on its obligations, Purchaser has the right to proceed to replace, repair or re-execute the order at the Seller's expense, with or without help from third parties. Purchaser shall notify the Seller of the exercise of this right in advance where possible. Unless otherwise specified, guarantee period shall be minimum 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier. The guarantee period shall be extended by the period during which the goods are not in compliance with the stipulations in Clause 12 (Quality and Condition of Delivery). A guarantee period as described above shall apply afresh to replaced, repaired or re executed parts of a delivery. The decision of the Purchaser in regard to the Seller's liability under this clause shall be conclusive. This clause shall survive termination / completion of contract.

**21. Shortages / Replacements :-**

In the event of shortage on receipt of goods and / or on opening of packages at BHEL, all such shortages shall be made good within a reasonable time that BHEL may allow from such intimation and free of cost.

**22. Transit Damages :-**

In the event of receipt of goods in damaged condition or having found them so upon opening of packages at BHEL Supplier shall make good of all such damages within a reasonable time from such intimation by BHEL. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will be reimbursed.

**23. Rejection / Replacement :-**

The Seller shall arrange replacement / repair under its obligation under the contract within two weeks from the date of intimation or mutually agreed period. The rejected goods shall be taken away by the Seller and replaced on DDP (Delivered duty Paid)/ FOR - BHEL Stores / designated destination basis within such period. In the event of the Seller's failure to comply, Purchaser may take appropriate action including disposal of rejections and replacements, at the cost and risk of the Seller. In case defects attributable to Seller are detected during processing of the goods at purchaser's / his subcontractor works, the Seller shall be responsible for replacement / repair of the goods as required by the Purchaser at Seller's cost. In such cases expiry of guarantee/warranty will not be applicable.

**24. Cancellation / Termination of Contract and Risk Purchase :-**

- a. Purchaser shall have the right to completely or partially terminate the Contract by means of written notice to that effect without prejudicing its other rights and remedies, in an event of default by the Seller :-

**Events of default :-**

- (i) The Seller fails to perform within the time specified in the Contract or any extension thereof;
- (ii) The Seller defaults on one or more of the obligations or program of work as contained in the Contract.
- (iii) The Seller is declared bankrupt or insolvent or is ordered to be wound up, its business has been shut down or liquidated, a substantial part of its assets have been attached, or the business has been transferred to a third party. In case of partnership firm any dissolution of partnership shall be also considered as an event of default.
- (iv) Any misrepresentation or hiding of material fact if detected at a later stage
- (v) The delivery is rejected after inspection or re-inspection.
- (vi) Export license not granted to Seller by the concerned Government.
- (vii) Incapacity of seller for any other reason to deliver or perform the contract.

BHEL shall have the right to cancel / foreclose the Order / Contract, wholly or in part, in case it is constrained to do so, on account of any decline, diminution, curtailment or stoppage of the business. In the event of termination, the risk and liability attached to the items already delivered but not of use to Purchaser, as determined by Purchaser, remains with the Seller. Such items shall then be at the Seller's disposal and they are to be collected or removed by the Seller. The Seller shall immediately refund any payments in respect of such items if already made by the Purchaser before the termination, and in any case not later than 30 days.

- b. In the event of termination due to reasons or defaults by the Seller, the Purchaser may at his option procure from any source, on such terms and in such manner as he deems appropriate, goods not delivered or others of similar description where goods exactly complying are not readily procurable, in the opinion of the Purchaser, which opinion shall be final, at the risk and cost of the Seller and the Seller shall be liable to the Purchaser for any risks and excess cost. The cost of purchases made by the Purchaser at the risk and cost of the Seller shall be worked out after loading 10% overhead / handling charges on the cost of materials and related services procured from alternate source / s. Provided, however, that the Seller shall continue the

performance of the Contract to the extent not cancelled or terminated under the provisions of this clause. The Seller shall on no account be entitled to any gain on such re-purchases by the Purchaser.

- c. Termination of the Contract, from whatever cause arising, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination.

**25. Force Majeure :-**

Notwithstanding anything contained in the purchase order or any other document relevant thereto, neither party shall be liable for any failure or delay in performance to the extent said failures or delays are caused by the "Act of God" and occurring without its fault or negligence, provided that, force majeure will apply only if the failure to perform could not be avoided by the exercise of due care and vendor doing everything reasonably possible to resume its performance. A party affected by an event of force majeure shall give the other party written notice, with full details as soon as possible and in any event not later than three (3) calendar days of the occurrence of the cause relied upon. If force majeure applies, dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.. Notwithstanding above provisions, Purchaser shall reserve the right to cancel the order / Contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of deliveries and other schedules. Purchaser may takeover partly processed material at a mutually agreed price.

**26. Indemnification :-**

Vendor is fully responsible for ensuring that all legal compliances and safety guidelines are followed in course of the contract. Notwithstanding any other clause herein to the contrary, the Seller shall indemnify, hold and save harmless, and defend, at its own expense, the Purchaser, its officials, agents, servants and employees from and against all suits, claims, demands, and liability of any nature or kind, including their costs and expenses, arising out of acts or omissions of the Seller, or the Seller's employees, officers, agents or sub-contractors, in the performance of this Contract. This provision shall extend, inter alia, to claims and liability in the nature of employee's compensation and products liability. The obligations under this clause do not lapse upon termination of this Contract.

**27. Non-waiver of Defaults :-**

If any individual provision of the Contract is invalid, the other provisions shall not be affected.

The failure of Purchaser,

- a. To enforce any of the terms and conditions of the Contract.

Or

- b. To exercise any right or privilege granted to Purchaser.

Under the Contract or under law shall not release the Seller from any of the warranties or obligations under the Contract and shall not be construed as a waiver thereof and the same shall continue in full force and effect.

**28. Limitation of Liability :-**

Vendor's liability towards this contract is limited to a maximum of 100% of the contract value and consequential damages are excluded. However the limits of liability will have no effect in cases of criminal negligence or willful misconduct. The total liability of Vendor for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed the total Contract price.

**29. Settlement of Disputes :-**

Except as otherwise specifically provided in the Purchase Order, decision of BHEL shall be binding on the vendor with respect to all questions relating to the interpretation or meaning of the terms and conditions and instructions herein before mentioned and as to the completion of supplies / work / services, other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the contract, instructions, orders or these conditions or otherwise concerning the supply or the execution or failure to execute the order, whether arising during the schedule of supply / work or after the completion or abandonment thereof. Any disputes or differences among the parties shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).

**30. Arbitration Clause :-**

In case amicable settlement is not reached in the event of any dispute or difference arising out of the execution of the Contract or the respective rights and liabilities of the parties or in relation to interpretation of any provision in any manner touching upon the Contract, such dispute or difference shall (except as to any matters, the decision of which is specifically provided for therein) be referred by either party to the sole arbitration of an Arbitrator appointed by the Unit head of Electronics division of BHEL. Vendor shall have no objection even if the Arbitrator so appointed is an employee of BHEL or has ever dealt / had to deal with any matter relating to this Contract. Subject as aforesaid the provisions of the Arbitration and Conciliation Act, 1996 of India or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. It is a term of contract that the party initiating arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute. The venue for the arbitration shall be Bangalore, India. The award of the arbitrator shall be a speaking award and shall be final, conclusive and binding on all parties to this contract.

- a. The cost of Arbitration shall be borne equally by the parties.

- b. Notwithstanding the existence of any dispute or difference or any reference for the arbitration, the Seller shall proceed with and continue without hindrance the performance of the work under the Contract with due diligence and expedition in a professional manner.





**31. Applicable Laws and Jurisdiction of Courts :-**

The Contract shall be governed by the substantive laws of India. This contract shall be construed and interpreted in accordance with the laws of India and shall have exclusive jurisdiction of courts in Bangalore, Karnataka State, India.

**32. General Terms:**

That any non-exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents. That the headings used in this agreement are for convenience of reference only. That all notices etc., to be given under the Purchase order shall be in writing, type script or printed and if sent by registered post or by courier service to the address given in this document shall be deemed to have been served on the date when in the ordinary course, they would have been delivered to the addressee.

**ANNEXURE – I****BENEFITS FOR MSE SUPPLIERS AS PER MSMED ACT 2006 AND PUBLIC PROCUREMENT POLICY 2012**

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of CA certificate (Format enclosed at page 2 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (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. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer.

**Certificate by Chartered Accountant on Letter Head**

This ..... is to certify that M/s .....  
.....(Hereinafter referred to as 'Company') having its registered  
office at ..... is registered under MSMED Act 2006, (Entrepreneur Memorandum No ((Part-II)  
..... dtd ..... Category: ..... (Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited  
financial year ..... **as per MSMED Act 2006 is as follows:**

- 1. For Manufacturing Enterprises:** Investment in plant and machinery ( i.e., original cost excluding land and building and the items specified by the Ministry of Small 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 in within permissible limit of Rs..... Lacs  
for.....Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

(or)

The company has been graduated from its original category (Micro/Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is .....(dd/mm/yy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O.No.3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date: (Signature)

Name -

Membership Number -

Seal of Chartered Accountant

## **ANNEXURE – II**

### **LIST OF INTERNATIONAL GATEWAY AIRPORTS**

| SCHEDULE NO | COUNTRY     | CURRENCY CODE | AIRPORT                                                                               |
|-------------|-------------|---------------|---------------------------------------------------------------------------------------|
| D01         | UK          | GBP           | LONDON (HEATHROW)                                                                     |
| D02         | UK          | GBP           | NEW CASTLE                                                                            |
| D03         | UK          | GBP           | OXFORD. CHETLAM                                                                       |
| D04         | UK          | GBP           | BRISTOL. WELLINGBOROUGH                                                               |
| D05         | UK          | GBP           | BIRMINGHAM                                                                            |
| D06         | UK          | GBP           | EAST MIDLANDS                                                                         |
| D07         | UK          | GBP           | MANCHESTER                                                                            |
| D08         | UK          | GBP           | LEEDS                                                                                 |
| D09         | UK          | GBP           | GLASGOW                                                                               |
| D10         | FRANCE      | EURO          | PARIS (ROISSY) & LYON                                                                 |
| D11         | SWEDEN      | EURO          | STOCKHOLM                                                                             |
| D12         | SWEDEN      | EURO          | GOTHENBERG & MALMO                                                                    |
| D13         | ITALY       | EURO          | ROMA, MILAN                                                                           |
| D14         | ITALY       | EURO          | TURIN, BOLOGNA, FLORENCE                                                              |
| D15         | NETHERLANDS | EURO          | AMSTERDAM, ROTTERDAM                                                                  |
| D16         | AUSTRIA     | EURO          | VIENNA, LINZ, GRAZ                                                                    |
| D17         | BELGIUM     | EURO          | ANTWERP, BRUSSELS                                                                     |
| D18         | DENMARK     | DKK           | COPENHAGEN                                                                            |
| D19         | JAPAN       | JPY           | TOKYO, OSAKA                                                                          |
| D20         | SINGAPORE   | SGD           | SINGAPORE                                                                             |
| D21         | CANADA      | CAD           | TORONTO                                                                               |
| D22         | CANADA      | CAD           | MONTREAL                                                                              |
| D23         | USA         | USD           | NEW YORK, BOSTON                                                                      |
| D24         | USA         | USD           | CHICAGO                                                                               |
| D25         | USA         | USD           | SAN FRANCISCO, LOS ANGELES                                                            |
| D26         | USA         | USD           | ALANTA, HOUSTON                                                                       |
| D27         | GERMANY     | EURO          | MUNICH, KOLN, DUSSELDORF, HANNOVER, HAMBURG, STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG |
| D28         | GERMANY     | EURO          | FRANKFURT                                                                             |

|     |              |      |                              |
|-----|--------------|------|------------------------------|
| D29 | GERMANY      | EURO | BERLIN                       |
| D30 | SWITZERLAND  | SFR  | BASLE, ZURICH, GENEVA        |
| D31 | SPAIN        | EURO | BARCELONA                    |
| D32 | AUSTRALIA    | AUD  | SYDNEY                       |
| D33 | AUSTRALIA    | AUD  | MELBOURNE                    |
| D34 | AUSTRALIA    | AUD  | PERTH                        |
| D35 | CZECH        | EURO | PRAGUE                       |
| D36 | HONG KONG    | HKD  | HONG KONG                    |
| D37 | NEW ZELAND   | NZD  | AUCKLAND                     |
| D38 | RUSSIA       | USD  | MOSCOW                       |
| D39 | SOUTH KOREA  | USD  | KIMPO INTERNATIONAL, INCHEON |
| D40 | FINLAND      | EURO | HELSINKI                     |
| D41 | ROMANIA      | EURO | BUCHAREST                    |
| D42 | NORWAY       | EURO | OSLO                         |
| D43 | IRELAND      | EURO | DUBLIN                       |
| D44 | ISRAEL       | USD  | TEL AVIV                     |
| D45 | UAE          | USD  | DUBAI                        |
| D46 | OMAN         | USD  | MUSCAT                       |
| D47 | EGYPT        | USD  | CAIRO                        |
| D48 | TAIWAN       | USD  | TAIPEI                       |
| D49 | UKRAINE      | USD  | KIEV                         |
| D50 | CHINA        | USD  | SHANGHAI, SHENZHEN           |
| D51 | PHILIPINES   | USD  | MANILA                       |
| D52 | MALAYSIA     | USD  | KUALALUMPUR, PE NANG         |
| D53 | CYPRUS       | USD  | LARNACA                      |
| D54 | SOUTH AFRICA | USD  | JOHANNESBERG, DURBAN         |
| D55 | SLOVAKIA     | EURO | BARTISLOVA                   |
| D56 | SAUDI ARABIA | SAR  | RIYADH                       |
| D57 | TURKEY       | EURO | ISTANBUL                     |
| D58 | THAILAND     | USD  | BANGKOK                      |
| D59 | BRAZIL       | USD  | SAO PAULO, RIO DE JANEIRO    |

### **ANNEXURE – III**

#### **LIST OF CONSORTIUM BANKS**

**BANK GUARANTEE (BG) SHALL BE ISSUED FROM THE FOLLOWING BANKS ONLY:**

|    | <b>Nationalized Banks</b> |    | <b>Nationalized Banks</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 Banks</b>                                       |
| 5  | Corporation Bank          | 21 | CITI Bank N.A                                              |
| 6  | Central Bank              | 22 | Deutsche Bank AG                                           |
| 7  | Indian Bank               | 23 | The Hong Kong and Shanghai Banking Corporation Ltd. (HSBC) |
| 8  | Indian Overseas 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 Banks</b>                                       |
| 12 | State Bank of India       | 27 | Axis Bank                                                  |
| 13 | State Bank of Hyderabad   | 28 | The Federal Bank Limited                                   |
| 14 | Syndicate Bank            | 29 | HDFC Bank                                                  |
| 15 | State Bank of Travancore  | 30 | Kotak Mahindra Bank Ltd                                    |
| 16 | UCO Bank                  | 31 | ICICI Bank                                                 |
| 17 | Union Bank of India       | 32 | IndusInd Bank                                              |
| 18 | United Bank of India      | 33 | Yes Bank                                                   |

**Note:**

- BG should be directly sent to BHEL by the issuing Bank along with covering letter.
- All BGs must be issued from BHEL consortium banks listed above.
- BHEL may accept BG from other Public Sector Banks also which are not listed above.
- BG will not be accepted from Scheduled Banks and Co-operative Banks.
- In case BG is issued from a bank located outside Indian Territory and is issued in foreign currency, the BG must be routed through and confirmed by any one of the above mentioned consortium banks.
- This list is subject to changes. Hence vendors are requested to check this list every time before issuing BGs.

**ANNEXURE-IV**  
**BANK GUARANTEE FOR PERFORMANCE SECURITY**

Bank Guarantee No:

Date:

To

NAME

&amp; ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited <sup>1</sup> (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at \_\_\_\_\_<sup>2</sup> hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated .....<sup>3</sup> valued at Rs.....<sup>4</sup> ( Rupees -----)/FC.....(in words.....) for .....<sup>5</sup> (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to .....% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract, we, ....., (hereinafter referred to as the Bank), having registered/Head office at ..... and inter alia a branch at ..... being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- ( Rupees -----) without any demur, immediately on a demand from the Employer, .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. \_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We the .....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 Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We ..... BANK further agree with the Employer that the Employer 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 Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....<sup>6</sup> and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof. Unless a demand or claim under this guarantee is made on us in writing on or before the .....<sup>7</sup>we shall be discharged from all liabilities under this guarantee thereafter. We, ..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....<sup>8</sup>
- b) This Guarantee shall be valid up to .....<sup>9</sup>
- c) Unless the Bank is served a written claim or demand on or before .....<sup>10</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.





We, \_\_\_\_\_ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of

(Name of the Bank)

Dated.....

Place of Issue.....

<sup>1</sup> NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

<sup>2</sup> NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

<sup>4</sup> PROJECT/SUPPLY DETAILS

<sup>5</sup> BG AMOUNT IN FIGURES AND WORDS

<sup>6</sup> VALIDITY DATE

<sup>7</sup> DATE OF EXPIRY OF CLAIM PERIOD

<sup>8</sup> BG AMOUNT IN FIGURES AND WORDS.

<sup>9</sup> VALIDITY DATE

<sup>10</sup> DATE OF EXPIRY OF CLAIM PERIOD

**Note:**

**1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.**

**2. In Case of Bank Guarantees submitted by Foreign Vendors-**

- a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
- b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.



- b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

**BANK GUARANTEE FOR ADVANCE**

Bank Guarantee No:

Date:

To

NAME

&amp; ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited <sup>1</sup> (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier).having its registered office at \_\_\_\_\_ <sup>2</sup> (hereinafter called "the Contractor" which expression shall include its successors and permitted assigns) a contract Ref No.....dated .....<sup>3</sup>valued at Rs.....( Rupees -----/FC.....(in words.....) for .....<sup>4</sup>(hereinafter called the 'Contract')

AND WHEREAS the Employer has agreed to advance to the Contractor, a sum of Rs..... (Rupees..... only), equivalent to \_\_\_\_\_% of the said value of the Contract (hereinafter called "the said Advance"), upon the condition, that the said Advance shall be secured by undertaking guarantee for Rs ----- ( Rupees -----)<sup>5</sup> from a Bank as hereinafter appearing.

We, ....., (hereinafter referred to as the Bank), having registered/Head office at ..... and a branch at ..... being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer without any demur, merely on your first demand any sum or sums upto a maximum amount but not exceeding Rs ----- ( Rupees -----).

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. \_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Contractors/Supplier shall have no claim against us for making such payment.



We the ANNEXURE.....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 Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

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

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....<sup>6</sup> and shall be extended from time to time on the request of the Employer for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the .....<sup>7</sup> we shall be discharged from all liabilities under this Guarantee.

We, ..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....<sup>8</sup>
- b) This Guarantee shall be valid up to .....<sup>9</sup>
- d) Unless the Bank is served a written claim or demand on or before \_\_\_\_\_<sup>10</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank

We, \_\_\_\_\_ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.



(Name of the Bank)

Date.....

Place of Issue.....

<sup>1</sup> NAME AND ADDRESS OF THE EMPLOYER I.e Bharat Heavy Electricals Limited<sup>2</sup> NAME OF VENDOR /CONTRACTOR / SUPPLIER<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE<sup>4</sup> PROJECT/SUPPLY DETAILS<sup>5</sup> BG AMOUNT IN FIGURES AND WORDS<sup>6</sup> VALIDITY DATE<sup>7</sup> DATE OF EXPIRY OF CLAIM PERIOD<sup>8</sup> BG AMOUNT IN FIGURES AND WORDS<sup>9</sup> VALIDITY DATE<sup>10</sup> DATE OF EXPIRY OF CLAIM PERIOD**Note:****3. Units are advised that expiry of claim period may be kept 2/3 months after validity date.****4. In Case of Bank Guarantees submitted by Foreign Vendors-**

- c. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- d. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
  - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
  - b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.



- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

**BANK GUARANTEE FOR RELEASE OF AMOUNTS WITHHELD/LIQUIDATED DAMAGES AMOUNT**

Bank Guarantee No:

Date:

To

NAME

&amp; ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited <sup>1</sup>(hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) incorporated under the .....having its registered office at \_\_\_\_\_ <sup>2</sup>(hereinafter referred to as the 'Contractor', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated .....<sup>3</sup>valued at Rs.....( Rupees ----- )/FC.....(in words.....) for .....<sup>4</sup>(hereinafter called the 'Contract')

The Contractor as per Contract should have completed the work/ supplies under the contract by.....(date). As per terms and conditions of the Contract, the Employer is entitled to levy Liquidated Damages (LD) for delays and the Employer has withheld an amount of Rs .....by way of LD as per the Contract.. Now, on the request of the Contractor, the Employer having agreed to release the amount of Rs.....withheld from the Contractor's invoices as Liquidated damages under the terms and conditions of the Contract on production of a Bank Guarantee for Rs. \_\_\_\_\_ (Rupees.....only) <sup>5</sup>

We, ....., (hereinafter referred to as the Bank), having registered/Head office at ..... and inter alia a branch at ..... being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount of Rs ----- ( Rupees -----) without any demur, merely on a demand from the Employer

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.

\_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We the .....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 Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged. We ..... BANK further agree with the Employer that the Employer 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 Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's/ Supplier's liabilities.

This Guarantee shall remain in force upto and including.....<sup>6</sup> and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof. Unless a demand or claim under this guarantee is made on us in writing on or before the .....<sup>7</sup>we shall be discharged from all liabilities under this guarantee thereafter.

We, ..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.



Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....<sup>8</sup>
- b) This Guarantee shall be valid up to .....<sup>9</sup>
- e) Unless the Bank is served a written claim or demand on or before .....<sup>10</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, \_\_\_\_\_ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of

(Name of the Bank)

Dated.....

Place of Issue.....

<sup>1</sup> NAME AND ADDRESS OF THE EMPLOYER I.e Bharat Heavy Electricals Limited.

<sup>2</sup> NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

<sup>4</sup> PROJECT/SUPPLY DETAILS

<sup>5</sup> BG AMOUNT IN FIGURES AND WORDS

<sup>6</sup> VALIDITY DATE

<sup>7</sup> DATE OF EXPIRY OF CLAIM PERIOD

<sup>8</sup> BG AMOUNT IN FIGURES AND WORDS.

<sup>9</sup> VALIDITY DATE

<sup>10</sup> DATE OF EXPIRY OF CLAIM PERIOD

**Note:**

5. Units are advised that expiry of claim period may be kept 2/3 months after validity date.
6. In Case of Bank Guarantees submitted by Foreign Vendors-

**e. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.

**f. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**

- b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
- b.2** **In case, Foreign Vendors intend to provide BG from** Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

**BANK GUARANTEE FOR SUPPLY FREE ISSUE MATERIAL.**

Bank Guarantee No:

Date:

To

NAME

&amp; ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited<sup>1</sup> (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier).having its registered office at \_\_\_\_\_<sup>2</sup> (hereinafter referred to as the 'Contractor/Supplier/Fabricator' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref. No.....dated .....<sup>3</sup> valued at Rs.....( Rupees -----)/FC.....(in words.....) for .....<sup>4</sup>(hereinafter called the 'Contract')

and, the Employer having agreed as per the terms and conditions of the Contract to supply free issue material costing Rs.\_\_\_\_\_ for the manufacture/fabrication of the equipment at the Contractor's site on on furnishing a Bank Guarantee for Rs.\_\_\_\_\_ (Rupees.....)<sup>5</sup>in the manner hereinafter specified for the due safeguard of the free issue material,

we, ....., (hereinafter referred to as the Bank), having registered/Head office at ..... and inter alia a branch at ..... being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount of Rs ----- ( Rupees -----) without any demur, merely on a demand from the Employer, .

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.

\_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Contractors/Supplier shall have no claim against us for making such payment.

We the .....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 Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

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

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor/Supplier/ Fabricator and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's/Supplier's/ Fabricator's liabilities.

This Guarantee shall remain in force upto and including.....<sup>6</sup> and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/ Supplier/ Fabricator but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the .....<sup>7</sup>we shall be discharged from all liabilities under this guarantee thereafter.

We, ..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing. Notwithstanding anything to the contrary contained hereinabove:

f) The liability of the Bank under this Guarantee shall not exceed.....<sup>8</sup>



g) This Guarantee shall be valid up to .....<sup>9</sup>

- h) Unless the Bank is served a written claim or demand on or before .....<sup>10</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, \_\_\_\_\_ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of

(Name of the Bank)

Dated.....

Place of Issue.....

<sup>1</sup> NAME AND ADDRESS OF THE EMPLOYER. I.e Bharat Heavy Electricals Limited

<sup>2</sup> NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER .

<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

<sup>4</sup> PROJECT/SUPPLY DETAILS

<sup>5</sup> BG AMOUNT IN FIGURES AND WORDS

<sup>6</sup> VALIDITY DATE

<sup>7</sup> DATE OF EXPIRY OF CLAIM PERIOD

<sup>8</sup> BG AMOUNT IN FIGURES AND WORDS.

<sup>9</sup> VALIDITY DATE

<sup>10</sup> DATE OF EXPIRY OF CLAIM PERIOD

**Note:**

**7. Units are advised that expiry of claim period may be kept 2/3 months after validity date.**

**8. In Case of Bank Guarantees submitted by Foreign Vendors-**

**g. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.

**h. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**

**b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the

Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter-Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

**b.2 In case, Foreign Vendors intend to provide BG from** Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.

**b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.

**b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

**PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)**

In consideration of the Bharat Heavy Electricals Limited<sup>1</sup> (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_ through its Unit at.....(name of the Unit) having agreed to exempt (Name of the Vendor / Contractor / Supplier) having its registered office at \_\_\_\_\_<sup>2</sup> (hereinafter called the said Contractor which term includes supplier), from demand under the terms and conditions of the Contract reference No. \_\_\_\_\_ dated \_\_\_\_\_<sup>3</sup> valued at Rs.....<sup>4</sup> ( Rupees -----)<sup>4</sup> (hereinafter called the said Contract) of Security Deposit for the due fulfilment by the said contractor of the terms and conditions contained in the said Contract, on production of a Bank Guarantee for Rs. \_\_\_\_\_<sup>5</sup> (Rupees \_\_\_\_\_ only), we \_\_\_\_\_ (indicate the name and address of the Bank) having its Head Office at \_\_\_\_\_ (address of the head Office) (hereinafter referred to as the Bank) at the request of \_\_\_\_\_ [Contractor(s)] do hereby undertake to pay to the Employer an amount not exceeding Rs. \_\_\_\_\_ in the event of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Contract.

We, \_\_\_\_\_ (indicate the name of the Bank), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Employer. 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. \_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this guarantee shall be a valid discharge of our liability for payment hereunder and the Contractor(s) shall have no claim against us for making such payment. We, 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 Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claim satisfied or discharged or till \_\_\_\_\_<sup>6</sup> office/Department/Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said contractor(s) and also including the satisfactory performance of the equipment during guarantee period and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_<sup>7</sup>, we shall be discharged from all the liability under this guarantee thereafter.

We, \_\_\_\_\_ (indicate the name of the Bank) further agree with the Employer that the Employer 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 Contract or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

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

We,..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- i) The liability of the Bank under this Guarantee shall not exceed.....<sup>8</sup>
- j) This Guarantee shall be valid up to .....<sup>9</sup>
- k) Unless the Bank is served a written claim or demand on or before .....<sup>10</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

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

Date \_\_\_\_\_ Day of \_\_\_\_\_

for           (indicate the name of the Bank)          

(Signature of Authorised signatory)

\* This date to be indicated should not be earlier than 60 days after the date contemplated under the contract.

<sup>1</sup> NAME AND ADDRESS OF THE EMPLOER. I.e Bharat Heavy Electricals Limited

<sup>2</sup> NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER .

<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

<sup>4</sup> PROJECT/SUPPLY DETAILS

<sup>5</sup> BG AMOUNT IN FIGURES AND WORDS

<sup>6</sup> VALIDITY DATE

<sup>7</sup> DATE OF EXPIRY OF CLAIM PERIOD

<sup>8</sup> BG AMOUNT IN FIGURES AND WORDS.

<sup>9</sup> VALIDITY DATE

<sup>10</sup> DATE OF EXPIRY OF CLAIM PERIOD



**Note:**

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**10. In Case of Bank Guarantees submitted by Foreign Vendors-**

- i. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- j. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
- b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
- b.2** **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
- b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

**ANNEXURE- V****Process Compliance Form for RA**

(The bidders are required to print this on their company's letterhead and sign, stamp before faxing)

To  
- M/s. {Service provider  
- Postal address}

**Sub: Agreement to the Process related Terms and Conditions**

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for {Items} against BHEL enquiry/ RFQ no.{.....} dt. {.....}

This letter is to confirm that:

- 1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
- 2) We have studied the Reverse Auction Terms & Conditions and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We also confirm that, in case we become L1 bidder, we will email/ fax the price confirmation & break up of our quoted price (including that of line items) as per pg.7 of Annexure- V within two working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and M/s. {Service provider.}

We, hereby confirm that we will honor the Bids placed by us during the auction process. With regards  
Signature with company seal

Name –

Company / Organization  
Designation within Company / Organization  
Address of Company / Organization

- Sign this document and Fax it to M/s {Service provider} at {.....} prior to start of the Event.

- Attach a signed copy of the RFQ document along with the Agreement Form/ Process Compliance form and d/s{Service provider}

**RA price confirmation and breakup****To**

- **M/s. Service provider**
- **Postal address**

CC: M/s BHEL

{Unit- Address-}

Sub: **Final price quoted during Reverse Auction and price breakup**

Dear Sir,

We confirm that we have quoted.

**Rs.{\_\_\_\_\_} for item covered under tender enquiry No. {...} dt.{...}**

Total price of the items covered under above cited enquiries is inclusive of {Packing & forwarding, E.D., C.S.T., freight and insurance charges upto {.....} District,{.....} State and Type Test Charges etc., (exclusive of service tax), other as per NIT} as our final landed prices as quoted during the Reverse Auction conducted today {date} which will be valid for a period of {\_\_} days.

The price break-up including that of line items is as given below.

Total - Rs.

Thanking you and looking forward to the valuable order from BHEL. Yours

sincerely,

For \_\_\_\_\_

**Name: Company: Date:**  
**Seal**

## **ANNEXURE- VI**

### **EXTRACT FROM “MANUAL ON POLICIES & PROCEDURES FOR PURCHASE OF GOODS”**

11.2.3. Non-conformities between the figures and words of the quoted prices:

Sometimes, non-conformities/errors are also observed between the quoted prices in figures and that in words. The same is to be taken care of as indicated below:

(a) If, in the price structure quoted for the required goods, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.

(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

If there is such discrepancy in an offer, the same is to be conveyed to the tenderer with target date on the above lines and if the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

## ANNEXURE – VII

### PURCHASE PREFERENCE FOR MSE VENDORS:

- a. MSE vendors quoting within a price band of  $L1 + 15\%$  shall be allowed to supply up to 20% of the requirement against this tender provided
- b. The MSE vendor matches the L1 price c. L1 price is from a non MSE vendor
- d. L1 price will be offered to the nearest vendor nearest to L1 in terms of price ranking (L2 - nearest to L1). In case of non-acceptance by the MSE vendor (L2) next ranking vendor will be offered who is within the  $L1 + 15\%$  band (if L3 is also within 15% band).
- e. 20% of the 20% (i.e. 4% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) and (2) are fulfilled.



VENDOR CODE ALLOTTED BY BHEL :-

[illegible]

### **ANNEXURE – IX**

#### **LIST OF DOCUMENTS TO BE SUBMITTED DURING DESPATCH OF GOODS :-**

Seller shall arrange to send the following documents to the Purchaser, immediately on dispatch of goods: Any addition / exclusion to such documents shall be as specified in the Purchase Order.

#### **For despatches from within India :-**

| To be sent with the material |                                                                             |          | To be sent to purchase executive |                                                                                |                             |
|------------------------------|-----------------------------------------------------------------------------|----------|----------------------------------|--------------------------------------------------------------------------------|-----------------------------|
| 1                            | Delivery challan                                                            | (1 copy) | 1                                | GST invoice * – “Original for Buyer”                                           | (1 original + 1 extra copy) |
| 2                            | GST invoice* – “duplicate for transporter”.                                 | (1 copy) | 2                                | Inspection report / Test report<br>Test certificate (if called for in the PO ) | (1 copy)                    |
| 3                            | Transporters docket if received through transporter                         | (1 copy) | 3                                | Warranty certificate(if called for in the PO )                                 | (1 copy)                    |
| 4                            | Inspection report / Test report Test certificate (if called for in the PO ) | (1 copy) | 4                                | Original money receipt for freight/service charges if applicable               | Copy)                       |

\*The invoice shall contain all details as mentioned in GST invoice rules

#### **For despatches from outside India :-**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| To be given to BHEL Freight Forwarder | To be submitted to bank         |
| Invoice & Packing list                | Set of documents as per PO / LC |



**ANNEXURE – X**  
**Electronic Funds Transfer (EFT) OR Paylink Direct Credit Form**

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): \_\_\_\_\_ CREATE \_\_\_\_\_ CHANGE

|                                |  |
|--------------------------------|--|
| BHEL Vendor / Supplier Code:   |  |
| Company Name :                 |  |
| Permanent Account Number(PAN): |  |
| Address                        |  |
|                                |  |
|                                |  |

|             |               |             |
|-------------|---------------|-------------|
| City: _____ | PINCODE _____ | STATE _____ |
|-------------|---------------|-------------|

|                   |  |  |
|-------------------|--|--|
| Contact Person(s) |  |  |
| Telephone No:     |  |  |
| Fax No:           |  |  |
| e-mail id:        |  |  |

|   |                                                                                |  |  |
|---|--------------------------------------------------------------------------------|--|--|
| 1 | Bank Name:                                                                     |  |  |
| 2 | Bank Address:                                                                  |  |  |
|   |                                                                                |  |  |
|   |                                                                                |  |  |
| 3 | Bank Telephone No:                                                             |  |  |
| 4 | Bank Account No:                                                               |  |  |
| 5 | Account Type: Savings/Cash Credit                                              |  |  |
| 6 | 9 Digit Code Number of Bank and branch appearing on MICR cheque issued by Bank |  |  |
| 7 | Bank swift Code(applicable for EFT only)                                       |  |  |
| 8 | Bank IFSC code(applicable for RTGS)                                            |  |  |
| 9 | Bank IFSC code(applicable for NEFT)                                            |  |  |

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone NO. with STD Code

Company Seal





**Bank Certificate**

We certify that \_\_\_\_\_ has an Account No \_\_\_\_\_ with us and we confirm that the bank details given above are correct as per our records.

Date: \_\_\_\_\_ (.....) Place: \_\_\_\_\_ Signature \_\_\_\_\_

~~Please return completed form along with a blank cancelled cheque or photocopy thereof to: Bharath Heavy Electricals Ltd,~~

Attn:

Electronics Division, Mysore Road, BANGALORE - 560 026

In case of any Query, please call : concerned Purchase Executive