	<p align="center"> <b>PCRI-BOI DEPARTMENT</b>  <b>BHARAT HEAVY ELECTRICALS LIMITED</b>  <b>HEEP: HARDWAR-249 403 (Uttarakhand)</b>  <b>TEL: +91 1334 28 1187</b> </p>	<p> <b>ENQUIRY NO. R/5599/2022/0337V/1</b>  <b>DATE OF ISSUE OF ENQUIRY: 02.06.2022</b>  <b>ENQUIRY DUE DATE: 30.06.2022 (BY 13:45 HRS IST)</b> </p>
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**NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS**

**E-PROCUREMENT:** Please note that this tender enquiry has been issued through BHEL's e-procurement portal developed by NIC (<https://eprocurebhel.co.in/>). Hence, PAPER BID or BID THROUGH e-MAIL SHALL NOT BE ENTERTAINED FOR THIS TENDER. Please upload your bid in BHEL's e-procurement portal developed by NIC (<https://eprocurebhel.co.in/>)

**1 SCOPE OF ENQUIRY**

Sealed Bids are invited from the bidders for the supply of the following items as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Qty.	Project	Delivery Date
1	D55995242261 AAQMS Analyser	As per Scope of supply in BOQ	660 MW Bhusawal	30/09/2022
2	D55995242270 Accessories of AAQMS Analyser			

**Note:** Evaluation will be done on Total Landed cost up to Bhusawal project site considering all items in BOQ together.

**2 PROJECT INFORMATION**

Project Name	1 x 660 MW Bhuswal
Name of End Customer	Maharashtra State Power Gen. Company Ltd.
Custom Duty Status	Project Import (PI) Bidders to note that applicable custom duty on date of Part-1 bid opening will be considered for evaluation purpose.

**3 CUSTOMER APPROVAL:**

At present, you are not a customer approved supplier. The final acceptance of the offers shall be subject to vendor approval by End Customer. **BHEL will open the Price Bids of only those vendors who are finally approved by the end customer.**

**4 EARNEST MONEY DEPOSITE (EMD)**

4.1 Interested vendors must submit their offer along with the following Earnest Money Deposit (EMD) in a separate sealed envelope:


Details	Amount In INR	Amount in Foreign Currency	Type
EMD	<b>INR 2,00,000/-</b> (INR Two Lacs Only)	Equivalent Foreign currency	Refundable

4.2 EMD shall not carry any interest.

4.3 Modes of deposit:

The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender due date / tender opening date.
- (ii) Banker's cheque / Pay order/ Demand Draft, in favor of BHEL, Haridwar (along with offer)

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4.4 The demand drafts shall be in favor of “BHEL Haridwar”. E-Payment is also acceptable. For e-payment, RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA PIN CODE : 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

4.5 **Bidders already registered at BHEL-HEEP Hardwar (i.e. PMD Vendors) for this item are exempted from submission of the EMD.**

4.6 **MSE Suppliers/Central / State – PSUs / Government departments are exempted from submission of the EMD.** For availing MSE benefits, please refer Clause No. 23 of GISTC (For Indian Bidders).

4.7 Bids not accompanied with requisite EMD or bids accompanied with EMD of inadequate value shall be liable for rejection, wherever exemption is not allowed.

4.8 The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be refunded after the finalization of the contract. EMD shall be forfeited in the event of bidder opting out after tender opening (PART-I).

## 5 PRE-QUALIFICATION REQUIREMENT (PQR)

The Pre-Qualification Requirements have been compiled and placed at **ANNEXURE-3**. All the bidders should ensure submission of complete details and documents as called for in the same. The offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first.

## 6 SUBMISSION OF OFFER


Tenders are to be uploaded on BHEL e-procurement portal developed by NIC (<https://eprocurebhel.co.in/>) in Two Parts and Part-I (Techno-Commercial Bid along with PQR, as detailed below) will be opened first. The offers are to be uploaded on or before the last date of submission of offer, as detailed on BHEL e-procurement portal for the tender.

**in case of any difficulty faced on BHEL’s e-Procurement portal, queries may be addressed to 0120-4001002, 0120-4001005 and 0120- 6277787 ; email: [support-eproc@nic.in](mailto:support-eproc@nic.in). These details are also available on ‘Contact Us’ page of the portal.**

**COVER-1:** Proof of payment of EMD of Rs. 2,00,000/- (OR Equivalent Foreign Currency), Pre-Qualification Requirements: PQR & Technical Documents.

COVER-1 will be opened on Due Date and time specified in the Enquiry, or extension thereof. Incomplete offers are liable to be rejected.

6.1 **COVER-2 (PRICE BID)** should be strictly submitted in BOQ xls. Format uploaded with enquiry. Price bid of only techno-commercial acceptable bidders will be opened. **Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements mentioned in our Enquiry and who have submitted the EMD as stipulated in clause 4 above.**

	<p align="center"><b>PCRI-BOI DEPARTMENT</b>  <b>BHARAT HEAVY ELECTRICALS LIMITED</b>  <b>HEEP: HARDWAR-249 403 (Uttarakhand)</b>  <b>TEL: +91 1334 28 1187</b></p>	<p><b>ENQUIRY NO. R/5599/2022/0337V/1</b>  <b>DATE OF ISSUE OF ENQUIRY: 02.06.2022</b>  <b>ENQUIRY DUE DATE: 30.06.2022 (BY 13:45 HRS IST)</b></p>
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6.2 All correspondence thereof, shall be addressed to the following persons:

<p><b>Mr. Shashi Pal</b>  <b>Designation: A. E. (PCRI-BOI)</b>  Pollution Control Research Institute  HEEP, BHEL, Haridwar- 249403  Uttarakhand, India  Email ID: <a href="mailto:palsh@bhel.in">palsh@bhel.in</a>  Tel: +91 1334 28 1941</p>	<p><b>Mr. Sarvesh Kumar</b>  <b>Designation: Dy. Manager (PCRI-BOI)</b>  Pollution Control Research Institute  HEEP, BHEL, Haridwar- 249403  Uttarakhand, India  Email ID: <a href="mailto:psk@bhel.in">psk@bhel.in</a>  Tel: +91 1334 28 1187</p>
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6.3 As per directives of CENTRAL VIGILANCE COMMISSION, GOVERNMENT OF INDIA, one agent cannot represent two or more suppliers or quote on their behalf in a particular tender. If so found at any stage, BHEL Hardwar is likely to cancel Enquiries / POs to such suppliers. Further, such Indian Agent is likely to be de-listed (Black listed for business from BHEL).

6.4 Vendors operating from BHEL quarters, unauthorized colonies on BHEL Land and Dharamshalas/ Hotels shall not be considered, hence such vendors need not apply.

## 7 PUBLIC PROCUREMENT / MAKE IN INDIA (GOVT-NOTIFICATION)

This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.

The margin of purchase preference for 'Class-I local Supplier' shall be 20%.

- 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this order.
- 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
- 'Non- local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.

Also refer GISTC enclosed with the enquiry for further details.

**Note:** Class-I local Supplier, Class-II local Supplier and Non- local Suppliers are allowed to participate in this NIT. **However, Purchase Preference will be given to Class-I local Supplier only in following manner:**


a. Since quantity is not dividable, the 'Class-I local supplier' shall get Purchase Preference over 'Class-II local supplier' as well as Non-local supplier' as per following procedure:

I. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.

II. If L1 bid is not a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to the Class-I local supplier's quoted price falling within the margin of Purchase Preference, and contract shall be awarded to such Class-I local supplier subject to matching the L1 price.

III. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.

b. 'Class-II local supplier' will not get Purchase Preference.

	<p style="text-align: center;"><b>PCRI-BOI DEPARTMENT</b>  <b>BHARAT HEAVY ELECTRICALS LIMITED</b>  <b>HEEP: HARDWAR-249 403 (Uttarakhand)</b>  <b>TEL: +91 1334 28 1187</b></p>	<p><b>ENQUIRY NO. R/5599/2022/0337V/1</b>  <b>DATE OF ISSUE OF ENQUIRY: 02.06.2022</b>  <b>ENQUIRY DUE DATE: 30.06.2022 (BY 13:45 HRS IST)</b></p>
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**8 DEALING WITH BANNED SUPPLIERS/ CONTRACTORS IN BHEL**

Offers of the bidders, who are on the banned list, as also the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website [hwr.bhel.com](http://hwr.bhel.com).

**9 PRE-BID MEETING:**

Pre-Bid clarifications & deviations (if any) should be sought within 10 days of issue of the enquiry. Bidders to compile all clarifications, if any, preferably in single communication. The clarifications would be provided within 3 days of receipt of queries. Bidders may also have across the table discussions for seeking pre-bid clarifications (if required).

**10 IMPORTANT NOTE**

**NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS are to be read along with SPECIAL TERMS & CONDITIONS OF ENQUIRY (as applicable for Foreign or Indian Bidders) and GISTC (as applicable for Foreign or Indian Bidders). A signed & stamped copy of these documents as a token of acceptance is to be submitted along with the offer.** In the event of contradiction of terms and conditions mentioned, the order of preference shall be NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS followed by SPECIAL TERMS & CONDITIONS OF ENQUIRY followed by GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry).

***Kindly ensure the timely submission of your offer (by 13:45 Hrs IST on the due date) and note that Late Offers shall not be entertained under any circumstances.***

**11 LIST OF ENCLOSURES:**

- i. NIT: Material Details and Instruction to Bidders
- ii. Technical Specification (**Annexure-1&2**)
- iii. Pre-Qualification Requirement (**Annexure-3**)
- iv. Special Terms & Conditions for Two Part Tender for Foreign Bidders (**Annexure-4**)
- v. Special Terms & Conditions for Two Part Tender for Indian Bidders (**Annexure-5**)
- vi. GISTC (For Foreign Bidders)
- vii. GISTC (for Indigenous Bidders)
- viii. PBG format and List of BHEL consortium Bank
- ix. Self-Declaration certificate for Make in India
- x. Integrity Pact
- xi. BOQ (Price Format)
- xii. List of documents to be submitted by successful supplier for approval post ordering (**Annexure-6**)
- xiii. Technical Compliance Sheet

For and on behalf of BHEL, Hardwar

**Dy. Manager (PCRI-BOI)**

**CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM (CAAQMS)**

**Part A - AAQMS Analyzers**

**1.0 SYSTEM REQUIREMENT**

CAAQMS Stations – 03 Nos AAQMS Stations to be installed at site.

AAQMS shall be provided to check upon the ambient air quality inside and around the power plant and should be capable of generating required periodic reports for submission to relevant Central & State regulatory agencies by Owner.

Ambient air quality shall be monitored for concentration levels of selected pollutants at different locations at power station and adjoining areas as per the ambient air quality monitoring guidelines of Central & State regulatory agencies like, MOEF, Central & State Pollution Control Boards (PCBs) prevailing during contract execution phase.

AAQMS system including the analysers being supplied shall meet all applicable requirements/guidelines of relevant Central & State regulatory agencies like, MOEF, Central & State Pollution Control Boards (PCBs) etc. or of US EPA. In case USEPA approval is not applicable, approval from international reputed agencies like TUV, EN etc. is required. In the absence of the same, it is the sole responsibility of the Vendor to obtain the necessary approvals & Owner has no liability towards the same.

Broad break up of items to be supplied under CAAQMS – Part A is as below:

- |  |          |
|--|----------|
| a. Analysers for Sulphur dioxide (SO <sub>2</sub> )    | – 03 No. |
| b. Analysers for Oxides of nitrogen (NO <sub>x</sub> ) | – 03 No. |
| c. Analysers for Carbon monoxide (CO)                  | – 03 No. |
| d. Analysers for Carbon dioxide (CO <sub>2</sub> )     | – 03 No. |
| e. Particulate Monitors-PM <sub>2.5</sub> Analyzer     | – 03 No. |
| f. Particulate Monitors-PM <sub>10</sub> Analyzer      | – 03 No. |
| g. Analyser for Ozone (O <sub>3</sub> )                | – 01 No. |
| h. Analysers for Ammonia (NH <sub>3</sub> )            | – 03 No. |
| i. Analysers for Benzene                               | – 03 No. |
- (Total number of Analyzers to be supplied – 25 Nos.)

AAQMS for each plant location will be a fixed type, self-contained 'Station'. Total three (3) nos. such Stations will be provided. Minimum, one (1) no 'Station' shall be located at the up-wind direction. Balance two (2) number 'Stations' shall be located at different plant locations considering factors like downwind direction, sensitive receptor, population etc. The exact location of the monitoring station(s) shall be decided in consultation with Owner and

regulatory agencies considering all units at Bhusawal project during project implementation phase.

Ambient air quality monitoring for each plant location shall be suitable for continuous on-line monitoring of different pollutant gases. AAQMS shall allow monitoring, logging of parameter values, archiving and report generation for environmental monitoring authorities and plant management personnel.

All the Analysers will be provided with dual range & auto ranging facility. The analysers must function properly in Indian conditions without any defect between 0 to 50°C ambient temperature, 0 to 100% relative humidity and in high ambient dust level.

## 2.0 ANALYSER SPECIFICATIONS

### 2.1 NO2 Analyser:

S.No	Features	:	Specification requirement
1	Principle	:	Chemiluminescence
2	Range	:	0 to 10 ppm
3	Minimum Detectable Limits	:	<1.0 ppb
4	Zero Drift (24 Hr. Basis)	:	< 0.4 ppb of Full Scale Per Day
5	Span Drift (24 Hr. Basis)	:	+/- 1% of Full Scale Per Day
6	Accuracy	:	+/- 0.4 ppb (For 500 ppb range)
7	Linearity	:	+/- 1% of Full Scale Reading
8	Operating Temperature	:	5-45 °C
9	Signal Output	:	4-20 mA DC/RS 232 or RS 485 Link
10	Power Supply	:	240 AC (UPS)
11	Mounting	:	Rack Mounted

### 2.2 SO2 Analyser:

S.No	Features	:	Specification requirement
1	Principle	:	Fluorescence In UV absorbance
2	Range	:	0 to 10 ppm
3	Minimum Detectable Limits	:	<0.5 ppb
4	Zero Drift (24 Hr. Basis)	:	<1 ppb
5	Span Drift (24 Hr. Basis)	:	+/-1% Per day
6	Accuracy	:	+/-1%
7	Linearity	:	+/- 1% of Full Scale Reading
8	Operating Temperature	:	5-45 °C
9	Signal Output	:	4-20 mA DC/RS 232 or RS 485 Link

10	Power Supply	:	240 AC (UPS)
11	Mounting	:	Rack Mounted

### 2.3 CO Analyser:

S.No	Features	:	Specification requirement
1	Principle	:	NDIR Type With Gas Filter Correlation
2	Range	:	0-100 ppm.
3	Minimum Detectable Limits	:	0.04 ppm.
4	Zero Drift (24 Hr. Basis)	:	< 0.1 ppm Per Day
5	Span Drift (24 Hr. Basis)	:	+/-1% Per day
6	Accuracy	:	+/-0.1 ppm
7	Linearity	:	+/- 1% of Full Scale Reading
8	Operating Temperature	:	20-30°C
9	Signal Output	:	4-20 mA DC/RS 232 or RS 485 Link
10	Power Supply	:	240 AC (UPS)
11	Mounting	:	Rack Mounted

### 2.4 CO2 Analyser:

S.No	Features	:	Specification requirement
1	Principle	:	IR Type With Gas Filter Correlation
2	Range	:	0-1000 ppm
3	Minimum Detectable Limits	:	0.5 ppm
4	Zero Drift (24 Hr. Basis)	:	< 0.1 ppm Per Day
5	Span Drift (24 Hr. Basis)	:	+/-1% Per day
6	Accuracy	:	+/-0.1 ppm
7	Linearity	:	+/- 1% of Full Scale Reading
8	Operating Temperature	:	5-45 °C
9	Signal Output	:	4-20 mA DC/RS 232 or RS 485 Link
10	Power Supply	:	240AC (UPS)
11	Mounting	:	Rack Mounted

## 2.5 Particulate Matter (PM2.5):

S.No	Features	:	Specification requirement
1	Type	:	Tapered Element oscillating microbalance (TEOM) or Beta Ray attenuation
2	Range	:	0 to 1000 $\mu\text{g} / \text{m}^3$
3	Resolution	:	0.1 Micro- Gram / $\text{m}^3$
4	Accuracy	:	+/- 1.5 $\mu\text{g} / \text{m}^3$ (1 Hr Average) / +/- 0.5 $\mu\text{g} / \text{m}^3$ (24 Hr Average)
5	Minimum Detectable Limit for Mass Measurement	:	1 $\mu\text{g} / \text{m}^3$
6	Accuracy	:	For Mass Measurement +/- 0.75 %
7	Operating Temperature	:	5-45°C
8	Signal Output	:	4-20A DC/RS 232 or RS 485 Link
9	Power Supply	:	240AC (UPS)
10	Mounting	:	Rack Mounted
11	Data Averaging	:	Every 2 seconds

## 2.6 Particulate Matter (PM10):

S.No	Features	:	Specification requirement
1	Type	:	Tapered Element oscillating microbalance (TEOM) or Beta Ray attenuation
2	Range	:	0 to 1000 $\mu\text{g} / \text{m}^3$
3	Resolution	:	0.1 Micro- Gram / $\text{m}^3$
4	Accuracy	:	+/- 1.5 $\mu\text{g} / \text{m}^3$ (1 Hr Average) / +/- 0.5 $\mu\text{g} / \text{m}^3$ (24 Hr Average)
5	Minimum Detectable Limit for Mass Measurement	:	1 $\mu\text{g} / \text{m}^3$
6	Accuracy	:	For Mass Measurement +/- 0.75 %
7	Operating Temperature	:	5-45°C
8	Signal Output	:	4-21A DC/RS 232 or RS 485 Link
9	Power Supply	:	241AC (UPS)
10	Mounting	:	Rack Mounted
11	Data Averaging	:	Every 2 seconds

## 2.7 Ozone Analyzer (O<sub>3</sub> Analyser)

Using UV Photometric technology, the Analyser will measure the amount of ozone in the air from ppb levels up to ppm. The Analyser will be based on Beer Lambert Law for measuring low ranges of Ozone in Ambient Air.

S.No	Features	Specification requirement
1	Measuring principle	UV – Photometric/Chemiluminescence
2	Ranges	0-100 PPB to 0-10 PPM
3	Display	LCD/LED
4	Lower Detectable Limit	±0.006 ppm
5	Units	ppb, ppm, ug / m <sup>3</sup> , mg / m <sup>3</sup>
6	Zero drift at lowest Range	<1.0 ppb
7	Span drift at lowest Range	±1% of measured value/week
8	Response time at Lowest Range	20 sec
9	Linearity	1% of full-scale
10	Calibration	Built-in Calibration Facility
11	Mounting	Standard 19" with telescopic slide

## 2.8 Ammonia (NH<sub>3</sub>) Analyser:

S.No	Features	:	Specification requirement
1	Range	:	0 to 1000 µg / m <sup>3</sup>
2	Minimum Detectable	:	400 µg / m <sup>3</sup>
3	Operating Temperature	:	5-45 °C
4	Signal Output	:	4 - 20 mA DC/RS 232 Or RS 485 Link
5	Power Supply	:	240 V AC (UPS)
6	Mounting	:	Rack Mounted

## 2.9 Benzene Analyser:

S.No	Features	:	Specification requirement
1	Range	:	0 to 100 µg / m <sup>3</sup>
2	Minimum Detectable Limit	:	5 µg / m <sup>3</sup>
3	Operating Temperature	:	5-45 °C
4	Signal Output	:	4 - 20 mA DC/RS 232 Or RS 485 Link
5	Power Supply	:	240 V AC (UPS)
6	Mounting	:	Rack Mounted

**CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM (CAAQMS)**

**Part B - Accessories of AAQMS analysers**

CAAQMS Stations – 03 Nos AAQMS Stations to be installed at site.

**1.0** Broad break up of items to be supplied under CAAQMS Part B is as below:

- a. Multi Gas Calibrator - 03 Nos.
- b. Calibration Gas Cylinders for SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, Benzene, NH<sub>3</sub> analysers – 03 Sets (Total 18 Nos.)
- c. Zero Air Generator – 03 Nos.
- d. SS Gas Sampling Hood - 03 Nos.
- e. Meteorological Monitoring System - 01 Set
- f. Analyzer Shelter with 19" Rack Cabinet, Furniture (01 Cupboard, 01 Table & 02 Revolving Chairs), 1.5T Air Conditioners (2 No. for each AAQMS) - 03 Sets
- g. UPS (5 KVA Minimum for Analysers & DAS, 1 Hour Battery Back-up) - 03 No.
- h. Local DAS with Work Station(PC) & Laser Jet (B&W, A4) Printer - 03 Set
- i. Central DAS with PC, Laser Jet (B&W, A4) Printer & UPS (6 Hour battery Backup for PC) - 01 Set
- j. Electronic Display board along with Platform and Mounting structure - 01 No.
- k. RF Communication is to be provided. License & its Renewal for use of wireless communication for 3 years would be in Bidders scope – 1 Set
- l. Consumables/spares required for one year after commissioning of stations – 1 Set
- m. O&M contract for one year after commissioning of stations – Contract covering all 3 AAQMS stations & its components furnished under this contract. (Minimum 1 visit per quarter during 1-year operation.)
- n. Hydrogen Generator - 03 Nos. (Additional End User Requirement, Price to be indicated separately)

AAQMS shall allow monitoring, logging of parameter values, archiving and report generation for environmental monitoring authorities and plant management personnel.

**2.0** AAQMS system shall include the following:

- a. AAQMS Stations- 3 Nos.
- b. Centralized AAQMS Data Acquisition System with a facility to connect with MPCB server & also supply data to digital display board.
- c. Supply of modems and installation.

**2.1** Each AAQMS Station shall include the following including analysers mentioned in Annexure-1, accessories, calibration facility, mounting racks/cabinets and housing shelter, Data Acquisition System etc. but not limited to the same:

- a. Individual Gas analysers for the parameters specified
- b. Necessary sampling systems for the AAQMS analysers

- c. Multi gas calibration system
- d. Zero air generator
- e. Calibration gas cylinders, regulators, tubing along with test certificate.
- f. Mounting cabinet/rack for analysers and accessories
- g. Housing shelter for AAQMS equipment-environmentally conditioned, walk-in type shelter complete with lighting and convenience receptacles.

**2.2** Only Single Point raw power supply would be provided near each AAQMS location by BHEL. The responsibility of supply of complete AAQMS system (including analyzers forming part of Annexure-1) and work related to Installation, commissioning and handing over of AAQMS to end user i.e. MAHAGENCO will be in vendor's scope.

**2.3** Any other Statutory/Regulatory approval required for installation, Commissioning and Operation of AAQMS would be in Vendors scope.

**2.4** Price for Hydrogen generator to be indicated separately. BHEL reserves the right to exclude the item from scope as per end user requirement.

### **3.0 AAQMS Analyzer shelter**

#### **3.1 Shelter Specification**

##### **(i) General requirement**

The analyser shelter will be a completely assembled unit suitable for installation on a concrete pad as a stand-alone unit. All internal piping and tubing will terminate in bulkhead connections. Internal wiring will terminate in external junction boxes. All equipment including tubing, conduit fittings, junction boxes etc. will be installed so as not to interface with the removal of analysers, sample handling systems and related equipment, accessibility for maintenance will be the prime consideration.

The minimum external size of shelter will be 3000 mm(L) x 3000 mm (W) x 2500 mm (H) to accommodate the panels, work stations, tables, revolving tilting chairs, cupboard, UPS, battery etc.

**3.1.1 Cabin:** It comprises base frame, self-draining roof, peripheral structure, windows (as per requirement) and entry doors. All the eight corners of cabin to be completely strengthened to assist in lifting, transportation and placing.

- a. External dimensions (min.): 3000 mm (L) X 3000 mm (W) X 2500 mm (H).
- b. Canopy: Metal canopy
- c. External wall shall be made of stainless steel SS304 (minimum 2 mm thick). Internal wall shall be made of painted galvanized sheet steel (minimum 18 Gauge). Flooring material shall be Aluminum(Al) chequered plate. The insulation material for the wall and roof shall be of rock wool (minimum 100 mm thick). Shelter shall be provided

with welded base frame. There shall be main and emergency door with handle, lock and key, panic bar, SS hinges, half glazed window (in each door).

### **3.1.2 Accessories:**

- a. Air conditioners split module type - 2 Nos. 1.5-ton capacity of standard make.  
(Voltage Stabilizer and Change over unit will remain common for both AC's)
- b. Furniture including 2 nos. cushioned wheel chairs, cupboard and desk for mounting PC, monitor and printer.
- c. Carbon monoxide Detector hooked up to an External Hooter – 01 No.
- d. Internal and External Lighting – 01 Lot
- e. Fire Extinguisher – 02 No. (The automatic Fire detection and alarm System shall be provided to ensure availability at all times. Fire extinguisher in each AAQMS shelter is to be provided (CO<sub>2</sub> cylinder of 4.5 Kg capacity confirming to IS:2878).
- f. External Steel / Aluminum Ladder
- g. Lock and Key for Door.
- h. Laying of cables, cable trays outside and inside of Analyzer room.
- i. Trenching of cables outside and inside of Analyzer room.
- j. One-point power supply would be provided by BHEL near the AAQMS location. Internal and external distribution for power supply for AAQMS shelter will be done by the Vendor.

**3.1.3 Rack Cabinet:** Standard 19" rack cabinet made of heavy grade aluminum profiles with facility of telescopic slides, overload protection, power distribution box to accommodate "Monitoring analyzers" should be provided.

### **3.1.4 Platform for AAQMS Shelter:**

Cement Platform of suitable size and Height is required to be constructed by the Vendor. Shelters are required to be installed at platform at site of each AAQMS Station as part of scope of supply.

### **3.1.5 Earthing with Pit for AAQMS.**

The Supplier shall provide earth pit for AAQMS alongwith suitable electrodes, connecting wiring etc.

### **3.1.6 Features of Construction**

- a. The analyser shelter will consist of a self-framing exterior skin assembled on a rigid primed and painted steel superstructure. All materials used in the construction will be non-combustible.
- b. Wall panels design to be completely weather resistant. The design will allow for thermal expansion/contraction of the structure over the complete range of ambient temp. Applicable for the location without causing harmful buckling or opening of joints etc. materials of construction will be 2 mm thick SS304 sheets for

- external walls and 18 gauge painted galvanized steel for internal walls with ribbed interlocking. The ribbed interlocking will provide a strong column for the sheets on the side valves, where the “u” profile created at the edges, when interlocked with the second sheet, increases the section modules of ribbing.
- c. The wall panels of the shelter will be insulated and designed for the given ambient conditions by glass rock wool of approx. 100 mm insulation thickness.
  - d. Roof panels design and construction to be completely weather resistant. The design will allow for thermal expansion/contraction of the structure over the complete range of ambient temp. applicable for the location, without causing harmful buckling or opening of joints etc.
  - e. The base structure of the shelter will be constructed using ISMC (1501125) ISMB (100) welded properly and adequately sized to ensure structural rigidity to prevent deformation during dragging, lifting, loading and unloading of the shelter.
  - f. All insulation materials are to be fire retarding.
  - g. The analyser house will have two doors, one as the main entrance and the other as the emergency of the shelter.
  - h. The doors are to be mounted on special hinges to ensure gas tight construction of the shelter.
  - i. Doors will be sturdy, double walled, insulated with rock wool and open to the outside. Each door will have a window with transparent toughened safety glass.
  - j. The main entrance will carry a plate indicating the plane area number and the tag-list of all the analysers inside the shelter.
  - k. Analyser shelters shall meet the standards of the relevant building code with the following design loads:
    - i) Roof 20 lb. / sq. ft. live load
    - ii) Wind 35 lb. /sq. ft. at 0-30 ft. above grade elevation
    - iii) Seismic zone as applicable.
  - l. All tubes and cable entries to the shelter will be through multi cable transit blocks to ensure gas tightness of the shelter.
  - m. The floor is to be fabricated with anti-slip sheet and sealed continuously to ensure no loss of pressure.

#### **i. Painting**

- a. Preliminary cleaning involving removing of grease, oil, paint and dirt, which prevent pickling acid from coming in contact with the scale or mist.
- b. Structural painting will include scraping, chemical cleaning, one coat of each primer, one coat of epoxy zinc chromate red oxide primer and two coats of epoxy finish paint. The surface coating will take sufficient care of removing all the containments thus ensuring against premature and complete coating failure. Precautions to be taken to avoid air bubbles and uneven coat thickness.
- c. Internal sheet metal: the internal walls will be powder coated.

- d. Painting for the shelter is completed in every respect before dispatch. No painting will be done at site except touch up of scratches made during site erection.

## **ii. Environmental conditioning**

Analyser shelters will be environmentally conditioned to keep the inside atmosphere of the shelter at a constant temperature of  $24^{\circ}\text{C} + 3^{\circ}\text{C}$  to obtain repeatability and reliability of the analysers and also a comfortable working environment for workmen. For this purpose, either a skid mounted type air conditioning unit or 'split type' air conditioners (1 working & 1 standby) to be provided. A 300 mm single phase (240 V AC) exhaust fan with safety grills & flap type louver will be provided in the shelter. All Air conditioners will be 5 star rated or based on latest available inverter technology with minimum 3-star rating.

## **iii. Lighting**

- a. Illumination level in the shelters will be at a minimum of 300 lux at 750mm elevation inside the shelter. Maintenance factor will be 0.65.
- b. External dome type lighting will be under the overhangs to provide sufficient illumination for maintenance work.
- c. Power switches for internal and external lighting will be provided near the main entrance on the inside & outside of the shelter.

**3.1.7 Fire detection and Protection:** Necessary fire detection and protection measures for the analyzer shelter will be provided as per regulatory requirement. For this purpose, an automatic Fire detection and alarm System shall be provided to ensure availability at all times. Fire extinguisher in each AAQMS shelter is to be provided (CO2 cylinder of 4.5 Kg capacity confirming to IS:2878).

**3.1.8** UPS of suitable capacity with all accessories like battery and battery charger will be provided. Battery will be maintenance free type.

### **3.1.9 Power Distribution Board**

Power Distribution Board for distribution of UPS & 230 V AC power for all individual consumers such as individual analyzers, auxiliary equipment inside and around the shelter, lighting receptacles will be provided. Each of the main system will have an individual isolation circuit breaker mounted next to the individual power users.

**3.1.10** Telephone connection will be provided for each AAQMS stations. Telephone bill for one year would be in bidder's scope.

**3.1.11** Wireless connectivity will be provided for each AAQMS station for data communication. Analyzers Data from each individual DAS would be transferred to CDAS through wireless connectivity. CDAS will further transmit the data to pollution control boards server. Necessary hardware for Internet connectivity at CDAS would

be in bidder's scope. Recurring bills, if any, for Internet connectivity at CDAS for one year is covered under scope. CDAS would also be connected with existing Plant LAN.

#### **4.0 Work Stations based data acquisition system (DAS) for AAQMS station**

The work stations based DAS system for each AAQMS station will collect, store and analyze air quality data from all instruments of the station. For these purpose all instruments/analysers, will be interfaced with local DAS system.

##### **4.1 PC based Data Acquisition System:**

There will be one PC based Data Logger for each AAQMS and Meteorological Station. The entire data capture and mean value calculation as well as control of analyzers would be through user friendly software and operate on latest windows software system. Connection of analyzers with serial interface would be done through standard connectors. The DAS system for each AAQMS Station shall collect store and analyser air quality data from all instruments of the station. For these purpose all instruments shall be interfaced with local DAS system suitably either through a serial link or by hardware. Each local AAQMS DAS shall be connected to central station DAS through wireless connection.

##### **4.2 Specification of Application Software:**

- a. Calculation of arithmetic mean values, average values at different fixed intervals and user defined time periods like hourly/weekly/monthly/yearly etc.
- b. Calculation of pollution load and wind roses (by interfacing meteorological data wherever provided).
- c. Generation of reports for at different fixed intervals like daily, weekly, annual etc. and for user defined periods.
- d. Generation of reports in the form of line/ column charts / tables/curves/graphic etc.
- e. Generation of reports for pollution load, wind rose etc.
- f. Comparison of data of various parameters for the same monitoring station.
- g. Generation of reports for real time data and based on archived data.
- h. Display of real time (on-line momentary values) and archived values in tabular texts and graphic formats.
- i. Facility for calibration windows for analyser calibration.
- j. Real time monitoring of status of all analysers and sensors with diagnostics for maintenance personnel.
- k. Alarm annunciation of analyser / sensor abnormal conditions.
- l. Time synchronization with plant common GPS master clock.

##### **4.3 Important features of the Software**

- a. Data Management, analysis and reporting
- b. Latest Microsoft Windows operating system.
- c. Inter – Comparison of data between monitoring stations.
- d. Comparison of data of various parameters for the same monitoring station.
- e. Integrates charts, tables and graphics.
- f. Provision for data backups facilities.
- g. Provision for calculation of Arithmetic mean values, average. 1/2hr, 1hr,2hrs,3hrs,4hrs, 8hrs, 24 hrs, weekly, monthly and yearly.
- h. Calculation of Pollution load
- i. Reports of daily, weekly, annual and user defined period.
- j. Reports of Pollution load and calibration
- k. Line & column chart.

#### **4.4 Data Representation of AAQM Station:**

Data logger with driver software should be provided with PC based data acquisition system suitable for storing, logging, reporting and printing data from the analysers.

PC should have Minimum configuration as mentioned below: -

- a. Intel i7 or higher
- b. RAM: 8 GB or higher
- c. Hard Disk: 1 TB or higher
- d. OS: Windows 10 or Latest
- e. Monitor: 17" color monitor
- f. Keyboard: Standard Windows Keyboard
- g. Mouse: Mouse + Pad
- h. Software: Windows based data logging/driver software with a provision to averaging out data at selectable interval and graphical representation of data.
- i. A4 Laser Jet printer

#### **4.5 Wireless Connectivity:**

- a. Data Acquisition System (DAS) would be equipped with wireless connectivity for RF Communication between Local and Central Station based on RF modems.
- b. Required hardware and software will be provided for transmission of data from Central data acquisition system to pollution control boards server.
- c. Central data acquisition system will be hooked on to end users existing LAN for transfer of data related to AAQMS system to plant network.
- d. Vendor will obtain necessary approval for licenses authorizing the use of wireless communication equipment with specified frequencies.

### **5.0 Central AAQMS monitoring**

Monitoring and report generation of AAQMS for the whole power station will be carried out through a centralized work stations based data acquisition system with A4 sized LJP. For this purpose, all data from each AAQMS stations will be collected in centralized AAQMS.

Central AAQMS will also be connected to Plant DDCMIS & MIS server for monitoring through bidirectional dual redundant OPC link. Necessary Software for the purpose will be loaded into DDCMIS. CDAS would also be connected to servers of Department of Environment, for which necessary hardware & software are also covered under bidder's scope.

#### **5.1 Central Station for AAQMS:**

a. Monitoring and report generation of AAQMS for the whole power station shall be a centralized system and shall be carried out through a centralized PC based Data Acquisition system located at central control room. For this purpose, all individual analyser data from each AAQMS Stations shall be collected in a PC Based DAS by interfacing each AAQMS Stations by suitable wireless communication link (RF Modem) through centralized DAS System.

#### **b. Data Communication System for the Central Station:**

Data Communication system shall handle the data transmission of an ambient air quality network and receive incoming messages/ signals from remote Stations. The following additional features should be part of the system:

- i. To collect all the data from the remote Stations at prescribed time or on request.
- ii. Ability to manage multiple remote AAQMS Stations.
- iii. Monitoring, analyse, report generation and archiving of data.
- iv. To transmit the data to DCS OS.
- v. CDAS shall be hooked on to plant DDCMIS network.

#### **c. Central AAQMS DAS system software shall have following features:**

- i. Calculation of Arithmetic mean values, average values at different fixed intervals and user defined time periods like hourly / weekly/ monthly/early etc. for each remote Station.
- ii. Calculation of pollution load and wind roses (by interfacing meteorological data).
- iii. Generation of reports for at different fixed intervals like daily, weekly, annual etc. and for user defined periods.
- iv. Generation of reports in the form of line / column charts/ tables/curves/ graphics etc.
- v. Generation of reports for pollution load, wind rose, Station etc.
- vi. Comparison of data of various parameters for the same monitoring station.

- vii. Inter comparison of data between different monitoring Stations.
- viii. Generation of reports for real time data and based on archived data.
- ix. Display of real time (on-line momentary values) and archived values in tabular texts and graphic formats.
- x. Facility for calibration windows for analyser calibration.
- xi. Real time monitoring of status of all analysers and sensors with diagnostics for maintenance personnel.
- xii. Alarm annunciation of analyser/sensor abnormal conditions.
- xiii. Time synchronization with plant common GPS master clock.

## **5.2 Specification for Central Station Software**

- i. Data Communication system shall handle the data transmission of an ambient air quality network and receive incoming messages / signals from remote stations.
- ii. The following features shall be part of the system.
- iii. To collect all the data from the remote stations at prescribed time or on request.
- iv. Manage at least 5 or more remote air quality – monitoring Stations.
- v. It shall display multiple stations on –line data (momentary values) in tabular text and graphic format.

## **5.3 Important features of the Software**

- i. Data Management, analysis and reporting
- ii. Latest Microsoft Windows operating system.
- iii. 32 bit application.
- iv. Inter – Comparison of data between monitoring stations.
- v. Comparison of data of various parameters for the same monitoring station.
- vi. Integrates charts, tables and graphics.
- vii. Provision for data backups facilities.
- viii. Provision for calculation of Arithmetic mean values, average. 1/2hr, 1hr, 2hrs, 3hrs, 4hrs, 8hrs, 24 hrs, weekly, monthly and yearly.
- ix. Calculation of Pollution load
- x. Reports of daily, weekly, annual and user defined period.
- xi. Reports of Pollution load and calibration
- xii. Line & column chart.

## **5.4 Data Representation of AAQM Station**

Data logger with driver software should be provided with PC based data acquisition system suitable for storing, logging, reporting and printing data from the analysers.

PC should have Minimum configuration as mentioned below: -

- a. Intel i7 or higher

- b. RAM: 8 GB or higher
- c. Hard Disk: 1 TB or higher
- d. OS: Windows 10 or Latest
- e. Monitor: 17" color monitor
- f. Keyboard: Standard Windows Keyboard
- g. Mouse: Mouse + Pad
- h. Software: Windows based data logging/driver software with a provision to averaging out data at selectable interval and graphical representation of data.
- i. A/4 Laser jet printer
- j. UPS for CDAS PC (6 Hour battery backup)

## 6.0\_Meteorological Monitoring System (MMS)

The following parameters will be Monitored:

- i. Wind Speed
- ii. Wind Direction
- iii. Ambient Temperature
- iv. Solar Radiation
- v. Relative Humidity
- vi. Rainfall

General requirement of MMS is as below:

- i. MMS Will Be Continuous On-Line Type.
- ii. MMS will allow monitoring, logging of parameter Values, Archiving and Report Generation for Environmental Monitoring Authorities and Plant Management Personnel.
- iii. MMS sensors will also be provided with calibration system.
- iv. MMS Will Be Complete with All the Necessary Measuring Equipment.
- v. The System shall be providing in any one of the AAQMS station. Meteorological Mast of telescopic type and of 10-meter height to be placed alongside AAQMS station. The Mast is required for mounting the Meteorological Sensors. Necessary Hangers and Holders along with electrical Grounding Set shall be provided for installation of the Sensors. Material of Construction of the Mast shall be metallic and robust and shall be resistant to atmospheric corrosion. Data loggers for the metrological station will be provided with the necessary analogue and digital inputs and internal memory for all collected parameters. The data loggers will have the capacity for future extension with additional sensors.

### a. Wind Speed Sensor

S.N	Features	Specification requirement
1	Principle	Frequency Proportional to Wind speed
2	Range	0-210 Km / hr

3	Accuracy	2%
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#### b. Wind Direction Sensor

S.N o	Features	Essential / Minimum Requirements
1	Type	Potentiometric
2	Range	0-360 Degree
3	Accuracy	2%

#### c. Ambient temperature Sensor

S.N o	Features	Essential / Minimum Requirements
1	Type	RTD
2	Range	0- 50° c
3	Accuracy	0.2 Deg C

#### d. Relative Humidity (RH) Sensor

S.N o	Features	Essential / Minimum Requirements
1	Type	Thin Film Capacitor type
2	Range	0-100 %
3	Accuracy	3% of Full Scale Reading

#### e. Solar Radiation Sensor (Solarimeter)

S.N o	Features	Essential / Minimum Requirements
1	Type	Thermocouple based with appropriate wind shield
2	Measuring Range	0-1500 Watt/M <sup>2</sup>
3	Accuracy	± 3.5%
4	Operating temperature	0- 50° C

#### f. Rain Gauge

S.N o	Features	Essential / Minimum Requirements
1	Sensitivity	0. 5mm
2	Accuracy	1%
3	Operating Temperature	0- 50° C

### 7.0 Specification for Digital Display Board

S.N.	Features	Essential / Minimum Requirements
1	Size of the display	4 feet (H) X 8 feet (L)
2	Visibility Range	80-100 m
3	No of Display lines	4

4	Display of color elements	Color (RGY)
5	Minimum life span	5 years
6	Ambient Temperature	Maximum 50°C
7	Humidity Range	0-99%
8	Language	English only
9	Color gradient	Cluster LED based
10	Display casing	Weather proof casing
11	Type	Microcontroller/Microprocessor driven
12	LED	matrix 2X64X128
13	LED pitch	0.6"
14	Signal input to the display board	Data communication through RS 232/485/ Ethernet or suitable protocol from CAAQMS station for all parameters of AAQMS.

## 8.0 Multipoint calibrator

S.N.	Features		Essential / Minimum Requirements
1	Flow Measurement Accuracy	:	+/- 1 % Of Full Scale Reading (In 20-100%)
2	Repeatability of Flow Control	:	+/- 0.2 % Of Full Scale Reading
3	Linearity of Mass Flow Measurement	:	+/- 0.5 % Of Full Scale Reading
4	Calibration Gas Input ports	:	6 Nos
5	Temperature Range	:	5-45°C
6	Power Supply	:	240 V AC (UPS)

## 8.1 Gas Sampling System

- i. Analyser gas sampling system will be complete with sampling hood arrangement with SS hood, SS 316 manifold, peltier based moisture removal facility, manifold & tubings to the analyzers, moisture trap, air compressor of requisite capacity (minimum 10 LPM) and heat less type air dryer.
- ii. Zero Air Generator

## 8.2 Calibration System

- a. The calibration system should form a complete system alongwith Analysers being supplied under Annexure-1 of this specification. The calibration system must have facility of zero-point calibration.
- b. Calibration gas cylinders as required for calibration of analysers referred in Annexure-1 of appropriate capacity suitable for minimum 6-month calibration are covered in scope.

- c. Calibration Gas cylinders for NO<sub>x</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, Benzene & NH<sub>3</sub> of 10-liter Capacity, N<sub>2</sub> of 47-liter capacity with SS316 regulator – 1 Set each (for 3 AAQMS).
- d. All the calibration gases provided along with the system must be NIST traceable.
- e. The calibration procedure will be integrated into the software system for automatic calibration.

## **9.0 General Terms & Conditions**

**9.1 Installation & Commissioning:** The supplier will supply, erect & commission all the items covered under scope of Annexure 1 & 2 at site to integrate the system, demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters of the specification to the satisfaction of BHEL/MAHAGENCO. Only one-point power supply near to each AAQMS station location would be provided by BHEL. All the items required for the erection, commissioning and handing over of the AAQMS system to end user will be in bidder's scope.

### **9.2 Training of Owner's Personnel:**

To enable Owner's Personnel to become familiar with the equipment being supplied by the bidder, the bidder will arrange to train the Owner's engineering Personnel at site. The period (Minimum 03 man days) and nature of training for the individual personnel will be decided during contract execution stage.

**9.3 O & M Manual:** 05(Five) hard copies and 07(Seven) soft copies in USB Pen Drive/CD ROM of O&M manual in English language giving complete technical information for operation, maintenance, trouble shooting, preventive maintenance etc. will be provided.

**9.4 Packing & Dispatch:** All the items in the enquiry will be packed separately in packing capable of bearing air, water and road transit hazards. Packing boxes will be properly identified and marked with BHEL's Purchase Order Number.

"PCRI HWR" should be written in bold letters on all four sides of the boxes. Packing boxes will be properly identified and marked with BHEL's (India) Purchase Order Number.

**9.5 Guarantee:** The equipment will be guaranteed for a period of 36 months from the date of dispatch or 24 months from the date of Installation & Commissioning, whichever is earlier.

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**ITEM: CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM (CAAQMS)**

This bid pertains to supply, erection and commissioning of CAAQMS for 1x660 MW Unit#6 Bhusawal Thermal power project.

**Pre- Qualifying Requirement (PQR):****PART 1**

1. The bidder shall offer analyzers whose trouble free performance has been proven at-least for two years in not less than two different reheat type pulverized coal fired units (Thermal power stations) of unit size not less than 500 MW for continuous ambient air monitoring.  
The bidder shall submit copy of “PO placed, Dispatch documents, Commissioning Report and details of end user concerned official for supply, satisfactory operation of the commissioned equipment”.
2. Alternatively, the bidder may also offer analyzers with two-year trouble free operation for ambient air monitoring application at any Thermal Power Station/ industries/organizations. Bidder to submit the documents listed in S.No.1, substantiating performance of Analysers. PQR qualification of bidders would be decided by end user (MAHAGENCO) on the basis of documents furnished.
3. For Bidders offering upgraded / latest models of analyzers proven in point 1 or 2 above, PQR of equivalent previous models is acceptable. For offered analyzers, OEM shall certify that offered model is upgraded version of earlier model meeting PQR in point 1 or 2 above. The bidder shall submit Reference List of Projects wherein offered analyzers are supplied & commissioned.
4. In case the bidder is sourcing the analyzers from an OEM, Tender specific authorization letter is required from the manufacturer, clearly indicating contact details like Name, Email and address of manufacturer. The bidder shall furnish an agreement with such OEM for providing services and supply of spare parts for 3 years from the date of commissioning of items. In case OEM is bidding, he shall provide a certificate for providing services and supply of spare parts for 3 years from the date of commissioning of items. Bidder should also be authorized by OEM to commission the system at project site.
5. The bidder should have provided at least 01 No. PO of CAAQMS station in last 03 years from the bid opening date.
6. Bidder shall certify to maintain optimum inventory of critical components like electronic modules/ Cards/ IR Lamp/Thermistor assembly/Flow Meter etc. till warranty period i.e. 36 months. The list for the same should be furnished.
7. Bidder Average Annual Turnover (Last 3 Years): 100 Lakhs

## **PART 2**

**Along with the documents related to PQR above, following details shall also be included in the Offer:**

1. OEM Technical literature / Manuals of offered Analyzers/ Accessories and all major items forming part of BOM.
2. Required specification of the items is defined in BHEL document. If any such specification is not indicated in OEM Technical literature, confirmation from OEM is required.
3. Submit Unpriced Purchase Order copies placed on bidder for executed projects in the past three years. Submit List of Projects for which Supply, Erection & Commissioning has been carried out by bidder in the past three years. Also, submit reports of successful erection & commissioning Protocols or Minutes of the meetings for handing over of Ambient Air Quality Monitoring System for these projects.
4. Registered address of the India office and Name of representative for technical support for E&C and after sales service at project site.
5. BHEL shall issue call for service / commissioning with 15 days' notice. Bidder shall provide confirmation to visit BHEL project site within above notice period.

Important note: In case Bidder does not submit details required in all the above clauses or meet the requirements of Pre-qualification requirements, such offers will be summarily rejected and Bidder's Technical offers/proposals will not be evaluated.

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**SPECIAL TERMS & CONDITIONS FOR TWO PART TENDER FOR FOREIGN BIDDERS**

These terms and conditions supersede the same or similar terms and conditions if they are appearing elsewhere in the Enquiry.

S.No.	Terms	Description	Your confirmation
1.	<b>Confirmation to General Instructions and standard terms &amp; conditions:</b>	<p>Please confirm each clause of following documents: -</p> <ol style="list-style-type: none"> <li>1. General Instructions and standard terms &amp; conditions for bidding against tender enquiry (GISTC, Rev. 06).</li> <li>2. Special terms &amp; conditions of tender enquiry (Annexure-4).</li> <li>3. Technical Compliance sheet</li> </ol> <p>Deviation to conditions mentioned in above documents, if any, shall be submitted along with offer in separate documents.</p> <p>Please note that in case, no- deviation is received along with the offer, it will be considered that all terms and conditions mentioned in above documents are acceptable to the bidder and your offer will be processed accordingly.</p>	
2.	<b>Special Instruction:</b>	Please note that as per BHEL's Policy, we cannot allow Price impact for the requirement / scope of supply, which is a part of specifications of our tender enquiry. Hence please read all specification / documents thoroughly and submit your offer as per specifications of tender enquiry.	
3.	<b>Evaluation criteria</b>	<b>Evaluation will be done on Total Landed cost up to Bhusawal project site considering all items in BOQ together.</b>	
4.	<b>Basis of Quotation:</b>	Confirm that prices have been quoted on CFR Mumbai Airport basis. <b>Prices quoted in BOQ shall be inclusive of taxes in the country of origin and airfreight up to Mumbai Airport.</b>	
		For reasons of delay in receipt of documents from suppliers or due to the same being found to be incomplete, and / or faulty, the suppliers shall be responsible to reimburse in all demurrages / wharfages, if any paid by BHEL (for stated reasons).	
		Please mention the name of Origin Airport & Country.	
		Transit insurance would be arranged by BHEL. Please send your offer keeping this in view.	
5.	<b>Delivery Period:</b>	<p>The material should be supplied within 06 months of purchase order. This period includes following:</p> <ul style="list-style-type: none"> <li>• 30 days from the date of PO for supplier to submit the documents for approval. List of documents for submission is mentioned in Annexure-6.</li> <li>• 30 days for documents approval by BHEL/ End User</li> <li>• 07 days for arranging inspection by BHEL/BHEL Nominated agency/ End User</li> <li>• 07 days for issuing dispatch clearance from the date of receipt of documents mentioned in clause 10 of this document (refer below).</li> </ul> <p>Material should be dispatched within 07 days of providing MDCC by BHEL.</p>	

6.	<b>Engineering Document approval</b>	<p><b><u>Post Order Document approval</u></b></p> <p>Drawings/Data sheets/documents as per Annexure- 6 shall be submitted to BHEL for BHEL/customer approval within 30 days of purchase order. The documents shall be complete in all respects. To ensure completeness of documents (as per specification) BHEL would have in person meeting/ video-conference within first 15 days of PO (if requested by supplier). However, delay in documents approval due to vague/ in-complete submission of documents shall be on supplier's account.</p> <p>BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt. In case of delay on account of BHEL, delivery shall be rescheduled accordingly.</p>	
7.	<b>Technical Requirement:</b>	<p>Please quote your valuable offer as per <b>BHEL Specifications enclosed as Annexure-1&amp;2.</b></p> <p>Please submit your compliance or deviation to the technical specification in "Technical Compliance Sheet".</p> <p>Please ensure that documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.</p>	
8.	<b>Validity:</b>	<p>Confirm that your offer shall be valid for 120 days from the date of tender opening.</p> <p><b>BHEL will reserve the right to reject any or all quotations, quoting validity less than 120 days.</b></p>	
9.	<b>Firm &amp; Fixed Prices:</b>	<p>Confirm that prices will remain firm and fixed during the entire validity and execution of the project.</p>	
10.	<b>MDCC (Material dispatch clearance certificate) Clause:</b>	<p>Please note that material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) by BHEL. For issue of MDCC, you are required to submit the set of documents (i.e. Packing List, Guarantee Certificate, Complete Test Reports &amp; Calibration Certificate).</p> <p>BHEL will release MDCC within 07 days from the date of receipt of completed documents as detailed above.</p>	
11.	<b>Quality Requirements:</b>	<ol style="list-style-type: none"> <li>Inspection shall be done as per BHEL/ End User approved quality plan. Inspection will be witnessed by End Customer / BHEL / Nominated Third Party Agency.</li> <li>Successful supplier to submit Quality Plan (QP) in line with technical specifications within 30 days of receipt of BHEL Purchase Order for approval.</li> </ol>	

12.	<b>Erection, Commissioning &amp; Training Clause:</b>	The supplier shall install & commission the equipment at <b>660 MW Bhusawal (Maharashtra) site.</b>	
		The supplier will supply, erect & commission all the items covered under scope of Annexure 1 & 2 at site to integrate the system, demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters of the specification to the satisfaction of BHEL/MAHAGENCO.	
		Only one-point power supply near to each AAQMS station location would be provided by BHEL. All the items required for the erection, commissioning and handing over of the AAQMS system to end user will be in bidder's scope.	
		To enable Owner's Personnel to become familiar with the equipment being supplied by the bidder, the bidder will arrange to train the Owner's engineering Personnel at site as asked in specifications.	
		<p><b><i>Kindly confirm that Lumpsum Erection, Commissioning &amp; Training charges for complete scope of work as per clause 9.1 &amp; 9.2 of Annexure-2 (inclusive of everything i.e. To &amp; Fro charges, local conveyance, lodging and boarding etc. and irrespective of no. of man-days) has been quoted separately in the BOQ.</i></b></p> <p>The above charges for Erection, Commissioning &amp; Training shall be considered during Price evaluation.</p>	
13.	<b>O&amp;M Manual:</b>	05 (Five) hard copies and 07 (Seven) soft copies in USB Pen Drive/CD ROM of O&M manual in English language giving complete technical information for operation, maintenance, trouble shooting, preventive maintenance etc. will be provided.	
14.	<b>Liquidated Damages (Late Delivery) Clause:</b>	<p>Kindly confirm that LD for late delivery w.r.t. contractual delivery shall be applicable at the rate of 0.5% of order value per week of delay or part thereof subject to maximum of 10% of the order value.</p> <p>The order value shall contain all items except RF communication, I&amp;C and taxes.</p> <p>The RF communication shall be supplied by supplier within 03 months of site survey (site readiness would be informed by BHEL) and approval of documents for RF communication. LD for RF communication would be applicable separately @ 0.5% of value of RF communication per week of delay or part thereof subject to maximum of 10% (beyond 03 months of document approval) on the total value for RF Communication.</p> <p><b>Date of AWB (Airway Bill) shall be treated as delivery date for all purposes.</b></p>	
		<i>Loading for deviation in LD clause: In case of deviation in LD clause, BHEL will evaluate your offer after loading on account of deviation in LD. Loading will be done to the extent to which it is not agreed to by the bidder (at offered value).</i>	

15.	<b>Guarantee/ Warranty Clause:</b>	<p>The equipments shall be guaranteed/warranted for satisfactory performance for a period of 36 months from the date of dispatch or 24 months from the date of erection and Commissioning, whichever is earlier.</p> <p>In case of any failure or trouble reported from site, the supplier shall depute their representative immediately to attend the problem and replace the defective component/parts free of cost, if required.</p>	
16.	<b>Packing and Dispatch</b>	<p>All the items will be packed separately in packing capable of bearing air, water and road transit hazards. Packing boxes will be properly identified and marked with BHEL's Purchase Order Number.</p> <p>“PCRI HWR” should be written in bold letters on all four sides of the boxes. Packing boxes will be properly identified and marked with BHEL's (India) Purchase Order Number.</p>	
17.	<b>Origin of Quotation:</b>	<p>Quotation should be from the principal / original supplier even if it is submitted through their authorized agent, failing which the quotation is liable to be ignored.</p>	
18.	<b>Payment Terms:</b>	<p><b>Kindly confirm the following Payment terms:</b>  <b>Material Portion:</b> 100% payment after receipt of material at site against submission of PBG @ 10% of Order value valid till entire Guarantee / Warranty period. PBG would be submitted before the negotiation of documents. The PBG will be in BHEL format and from one of the BHEL consortium banks. For name of BHEL consortium bank, please visit our website <a href="http://hwr.bhel.com">hwr.bhel.com</a>.</p> <p>Part shipment and part payment is allowed.</p> <p><b>Erection, Commissioning and Training Portion:</b> 100% payment against receipt of work completion certificate / successful commissioning certificate, signed by BHEL representative at site.</p>	
19.	<b>Risk Purchase Clause:</b>	<p>Risk Purchase shall be applicable as per clause 18 of our GISTC (Rev. 06) for Foreign bidders enclosed with tender documents. <i>Kindly confirm.</i></p>	
20.	<b>Force Majeure Clause:</b>	<p>Force Majeure shall be applicable as per clause 19 of our GISTC (Rev. 06) for Foreign bidders enclosed with tender documents. <i>Kindly confirm.</i></p>	

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24.	<b>Acceptance of offers from country Sharing Land Border with India</b>	<p>Please be informed that suppliers from the countries sharing land border with India will required to be registered with the Competent Authority i.e. registration committee constituted by DPIIT (As on date of technical bid opening), failing to which, offer will be rejected straightaway.</p> <p>Please refer clause No. 24 of enclosed General Instructions and standard terms &amp; conditions for bidding against tender enquiry (GISTC, Rev. 06) for further details.</p>										
25.	<b>Customer Approval</b>	At present, you are not a customer approved supplier. The final acceptance of the offers shall be subject to vendor approval by End Customer. BHEL will open the Price Bids of only those vendors who are finally approved by the end customer.										
26.	<b>Integrity Pact</b>	<p>(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors OEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.</p> <table border="1" data-bbox="532 1289 1338 1472"> <thead> <tr> <th>Sl.</th> <th>IEM</th> <th>Email</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Shri Arun Chandra Verma, IPS (Retd.)</td> <td><a href="mailto:acverma1@gmail.com">acverma1@gmail.com</a></td> </tr> <tr> <td>2.</td> <td>Shri Virendra Bahadur Singh, IPS (Retd.)</td> <td><a href="mailto:vbsinghips@gmail.com">vbsinghips@gmail.com</a></td> </tr> </tbody> </table> <p>(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.</p> <p>(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.</p>	Sl.	IEM	Email	1.	Shri Arun Chandra Verma, IPS (Retd.)	<a href="mailto:acverma1@gmail.com">acverma1@gmail.com</a>	2.	Shri Virendra Bahadur Singh, IPS (Retd.)	<a href="mailto:vbsinghips@gmail.com">vbsinghips@gmail.com</a>	
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27.	<b>Reverse Auction</b>	<p>BHEL shall be resorting to Reverse Auction (RA) (guidelines as available on <a href="http://www.bhel.com">www.bhel.com</a>) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. in case any bidder(s) do(es) not participate in online reverse auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.</p>			
28.	<b>Optional item in BOQ</b>	<p>Please note that item 2.2 of BOQ "<b>Hydrogen Generator; Qty.: 3 Nos.</b>" is optional. BHEL reserves the right to exclude this item from scope as per End user requirement. Same will be informed to bidders before Reverse Auction (RA).</p>			

**Kindly ensure to submit the below Enclosures along with 'Techno-Commercial Bid':**

1. Copy / Replica of Price Bid (without prices) i.e. BOQ.
2. Catalog / Leaflet of the Equipment / Instrument.
3. Signed & Stamped copy (each page) of duly filled 'Annexure-4' Special terms & conditions of Enquiry.
4. Signed & Stamped copy (each page) of GISTC, Rev. 06 as token of acceptance.
5. Signed & Stamped copy (each page) of Technical Compliance Sheet.

Consignment weight: Gross / Net weight in Kg (approx.) to be indicated .....

**Signature of supplier with Seal**

**SPECIAL TERMS & CONDITIONS FOR TWO PART TENDER FOR INDIGENOUS BIDDERS**

These terms and conditions supersede the same or similar terms and conditions if they are appearing elsewhere in the Enquiry.

S.No.	Terms	Description	Your confirmation
1.	<b>Confirmation to General Instructions and standard terms &amp; conditions:</b>	<p>Please confirm each clause of following documents: -</p> <ol style="list-style-type: none"> <li>1. General Instructions and standard terms &amp; conditions for bidding against tender enquiry (GISTC, Rev. 06):</li> <li>2. Special terms &amp; conditions of tender enquiry (Annexure-5).</li> <li>3. Technical Compliance sheet</li> </ol> <p>Deviation to conditions mentioned in above documents, if any, shall be submitted along with offer in separate documents. Please note that in case, no- deviation is received along with the offer, it will be considered that all terms and conditions mentioned in above documents are acceptable to the bidder and your offer will be processed accordingly.</p>	
2.	<b>Special Instruction:</b>	Please note that as per BHEL's Policy, we cannot allow Price impact for the requirement / scope of supply, which is a part of specifications of our tender enquiry. Hence please read all specification / documents thoroughly and submit your offer as per specifications of tender enquiry.	
3.	<b>Evaluation criteria</b>	<b>Evaluation will be done on Total Landed cost up to Bhusawal project site considering all items in BOQ together.</b>	
4.	<b>Basis of Quotation:</b>	Confirm that Prices have been quoted on FOR destination basis i.e. up to <b>660 MW Bhusawal project site.</b>	
		<i>The goods must be dispatch through any BHEL approved transporters which are posted at our website <a href="http://hwr.bhel.com">hwr.bhel.com</a>. Please note that if you dispatch the material by any BHEL un-approved transporter then you will be required to furnish the MRC (Material Receipt Certificate) / Receipted GR from project site for processing of your Invoice. No demurrage charges would be borne by BHEL.</i>	
		Transit insurance would be arranged by BHEL. Please send your offer keeping this in view.	
5.	<b>Delivery Period:</b>	<p>The material should be supplied within 06 months of purchase order.</p> <p>This period includes following:</p> <ul style="list-style-type: none"> <li>• 30 days from the date of PO for supplier to submit the documents for approval. List of documents for submission is mentioned in Annexure-6.</li> <li>• 30 days for documents approval by BHEL/ End User</li> <li>• 07 days for arranging inspection by BHEL/BHEL Nominated agency/ End User</li> <li>• 07 days for issuing dispatch clearance from the date of receipt of documents mentioned in clause 10 of this document (refer below).</li> </ul> <p>Material should be dispatched within 07 days of providing MDCC by BHEL.</p>	

6.	<b>Engineering Document approval</b>	<p><b><u>Post Order Document approval</u></b></p> <p>Drawings/Data sheets/documents as per Annexure- 6 shall be submitted to BHEL for BHEL/customer approval within 30 days of purchase order. The documents shall be complete in all respects. To ensure completeness of documents (as per specification) BHEL would have in person meeting/ video-conference within first 15 days of PO (if requested by supplier). However, delay in documents approval due to vague/ in-complete submission of documents shall be on supplier's account.</p> <p>BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt. In case of delay on account of BHEL, delivery shall be rescheduled accordingly.</p>	
7.	<b>Technical Requirement:</b>	<p>Please quote your valuable offer as per <b>BHEL Specifications enclosed as Annexure-1&amp;2.</b></p> <p>Please submit your compliance or deviation to the technical specification in "Technical Compliance Sheet".</p> <p>Please ensure that documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.</p>	
8.	<b>Validity:</b>	<p>Confirm that your offer shall be valid for 120 days from the date of tender opening.</p> <p><b>BHEL will reserve the right to reject any or all quotations, quoting validity less than 120 days.</b></p>	
9.	<b>Firm &amp; Fixed Prices:</b>	<p>Confirm that prices will remain firm and fixed during the entire validity and execution of the project.</p>	
10.	<b>MDCC (Material dispatch clearance certificate) Clause:</b>	<p>Please note that material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) by BHEL. For issue of MDCC, you are required to submit the set of documents (i.e. Packing List, Guarantee Certificate, Complete Test Reports &amp; Calibration Certificate).</p> <p>BHEL will release MDCC within 07 days from the date of receipt of completed documents as detailed above.</p>	
11.	<b>Quality Requirements:</b>	<ol style="list-style-type: none"> <li>1. Inspection shall be done as per BHEL/ End User approved quality plan. Inspection will be witnessed by End Customer / BHEL / Nominated Third Party Agency.</li> <li>2. Successful supplier to submit Quality Plan (QP) in line with technical specifications within 30 days of receipt of BHEL Purchase Order for approval.</li> </ol>	

12.	Erection, Commissioning & Training Clause:	<p>The supplier shall install &amp; commission the equipment at <b>660 MW Bhusawal (Maharashtra) site.</b></p> <p>The supplier will supply, erect &amp; commission all the items covered under scope of Annexure 1 &amp; 2 at site to integrate the system, demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications &amp; parameters of the specification to the satisfaction of BHEL/MAHAGENCO.</p> <p>Only one-point power supply near to each AAQMS station location would be provided by BHEL. All the items required for the erection, commissioning and handing over of the AAQMS system to end user will be in bidder's scope.</p> <p>To enable Owner's Personnel to become familiar with the equipment being supplied by the bidder, the bidder will arrange to train the Owner's engineering Personnel at site as asked in specifications.</p> <p><b>Kindly confirm that Lumpsum Erection, Commissioning &amp; Training charges for complete scope of work as per clause 9.1 &amp; 9.2 of Annexure-2 (inclusive of everything i.e. To &amp; Fro charges, local conveyance, lodging and boarding etc. and irrespective of no. of man-days) has been quoted separately in the BOQ.</b></p> <p>The above charges for Erection, Commissioning &amp; Training shall be considered during Price evaluation.</p>	
13.	O&M Manual:	05 (Five) hard copies and 07 (Seven) soft copies in USB Pen Drive/CD ROM of O&M manual in English language giving complete technical information for operation, maintenance, trouble shooting, preventive maintenance etc. will be provided.	
14.	Liquidated Damages (Late Delivery) Clause:	<p>Kindly confirm that LD for late delivery w.r.t. contractual delivery shall be applicable at the rate of 0.5% of order value per week of delay or part thereof subject to maximum of 10% of the order value.</p> <p>The order value shall contain all items except RF communication, I&amp;C and GST.</p> <p>The RF communication shall be supplied by supplier within 03 months of site survey (site readiness would be informed by BHEL) and approval of documents for RF communication. LD for RF communication would be applicable separately @ 0.5% of value of RF communication per week of delay or part thereof subject to maximum of 10% (beyond 03 months of document approval) on the total value for RF Communication.</p> <p><b>Date of GR/LR shall be treated as delivery date for all purposes.</b></p> <p><i>Loading for deviation in LD clause: In case of deviation in LD clause, BHEL will evaluate your offer after loading on account of deviation in LD. Loading will be done to the extent to which it is not agreed to by the bidder (at offered value).</i></p>	

15.	<b>Guarantee/ Warranty Clause:</b>	<p>The equipments shall be guaranteed/warranted for satisfactory performance for a period of 36 months from the date of dispatch or 24 months from the date of erection and Commissioning, whichever is earlier.</p> <p>In case of any failure or trouble reported from site, the supplier shall depute their representative immediately to attend the problem and replace the defective component/parts free of cost, if required.</p>	
16.	<b>Packing and Dispatch</b>	<p>All the items will be packed separately in packing capable of bearing air, water and road transit hazards. Packing boxes will be properly identified and marked with BHEL's Purchase Order Number.</p> <p><b>"PCRI HWR"</b> should be written in bold letters on all four sides of the boxes. Packing boxes will be properly identified and marked with BHEL's (India) Purchase Order Number.</p>	
17.	<b>Taxes &amp; duties:</b>	<p>Details of applicable taxes &amp; duties are to be mentioned as per clause 11 of General Instructions and Standards Terms &amp; Conditions for bidding against tender enquiry (GISTC), Rev. 06.</p> <p>In this regard, following is to be specifically mentioned in the offer:</p> <ol style="list-style-type: none"> <li>GST Registration Number</li> <li>Address of Principal place of Business</li> <li>Type of Business</li> <li>HSN Code, its description &amp; rate of applicable GST for the offered material</li> <li>Whether registered under Composite scheme of GST (Y/N).</li> </ol> <p><i>It should be noted that the evaluation of the offers shall be done considering the taxation/benefits as applicable under GST.</i></p>	
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29.	<b>Optional item in BOQ</b>	<p>Please note that item 2.2 of BOQ "<b>Hydrogen Generator; Qty.: 3 Nos.</b>" is optional. BHEL reserves the right to exclude this item from scope as per End user requirement. Same will be informed to bidders before Reverse Auction (RA).</p>			

**Kindly ensure to submit the below Enclosures along with 'Techno-Commercial Bid':**

1. Copy / Replica of Price Bid (without prices) i.e. BOQ.
2. Catalog / Leaflet of the Equipment / Instrument.
3. Signed & Stamped copy (each page) of duly filled 'Annexure-5' Special terms & conditions of Enquiry.
4. Signed & Stamped copy (each page) of GISTC, Rev. 06 as token of acceptance.
5. Signed & Stamped copy (each page) of Technical Compliance Sheet.

Consignment weight: Gross / Net weight in Kg (approx.) to be indicated .....

**Signature of supplier with Seal**



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)  
For Foreign Bidders (Version June-2021,Rev: 06)

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#### 1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of purchase order until unless the deviations are specifically agreed by BHEL.

#### 2. ORIGIN OF QUOTATION.

- The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer / agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

#### 3. SUBMISSION OF TENDER.

- Bid/Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER/Dropped in the Tender Box: addressed as follows: -

Quotation against Enquiry No. \_\_\_\_\_ Dated: \_\_\_\_\_

Due on: \_\_\_\_\_

To,  
THE HEAD OF MATERIALS MANAGEMENT,  
Heavy Electrical Equipment Plant,  
Bharat Heavy Electricals Limited,  
HARIDWAR-249403 (Uttarakhand), INDIA.

- TENDER BOX is located at TENDER ROOM, Room No. - 415, 4<sup>th</sup> Floor, Main Admin. Building, BHEL-HEEP, Haridwar.

## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



## BHARAT HEAVY ELECTRICALS LIMITED

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- C) In case of Three / Two Part Bid, technical bid containing technical offer, duly signed; and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- D) The bid / quotation must be posted before due date, keeping allowance for postal transit time. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer / bid shall be signed and stamped in each page by authorized representative of the bidder.
- E) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped.
- F) The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The cutting / overwriting in the bid / offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site [www.bhel.com](http://www.bhel.com).
- G) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion of such PMD vendor from BHEL's approved vendor list.

- H) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 2 Crore or more.
- I) In case of open tender, technically qualified unregistered bidders may apply online for registration through <http://www.bhel.com/index.php/vender>.
- J) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at **L1 counter offered rates**, if the quantity offered by the L-1 bidder is less than the quantity tendered for.

If the counter offer is to be given to other qualifying Vendor(s) (e.g. in case of splitting of order, MSE Vendors or the case of Purchase preference to make in India), then the basic price for each qualifying vendor has to be calculated taking the landed cost of the L1 vendor as reference. Basic price will be calculated by working backwards from the landed cost of L1 vendor in following manners;

**(1) Counter offer in case of MSE Vendor(s) or the case of Purchase preference to make in India:**

Landed cost of L-1 vendor will be reduced by notional loading of late delivery penalty to the extent the same is not applicable to the vendor being counter offered. The result so arrived at will be put as landed cost and basic price to be counter offered will be worked backward therefrom in price structure of the concerned vendor.

**(2) Counter offer in case of Splitting:**

Landed cost of L-1 vendor will be reduced by custom duty and notional loading of late delivery penalty to the extent the same is not applicable to the vendor being counter offered. The result so arrived at will be put as landed cost and basic price to be counter offered will be worked backward therefrom in price structure of the concerned vendor.

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If the basic price so computed is less than the basic price of the L1 vendor, then this basic price shall be counter offered, otherwise the basic price of L1 vendor shall be counter offered.

- K) BHEL may also reduce the Tender Quantity for offering it to Micro & Small Enterprise (MSE) Indian Vendors as per applicable Government of India rules whose prices are within 15% of L1 prices as per directives of Government of India.
- L) In case of e-Tendering (Online bidding through e portal), offline bid submitted in hard copy or in any other form by the vendor / supplier will not be accepted and will be rejected outrightly. Only e-portal bid will be accepted.

#### 4. TENDER OPENING.

Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore, bid / quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. **TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.** The bidders or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter on that particular day. General authorization letter is not acceptable.

**Note: - Foreign bidders willing to attend the bid opening has to provide the requisite documents to the concerned Purchase executives for arranging gate pass for them.**

#### 5. SPECIFICATION, DRAWINGS & STANDARD.

- a) Bidders must give their detailed specification in the quotation along with relevant technical literature / catalogue etc. against the tender enquiry.
- b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry.

If these documents are not furnished, the offer is liable to be rejected.

- c) Wherever national / international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply.
- d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of BHEL or without permission of BHEL.

#### 6. PRICE SCHEDULE.

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
- b) Prices quoted should not be more than the prices quoted to any other BHEL units / offices / divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided.
- c) Bidders need to quote their prices on CFR any sea port in Mumbai or FCA basis to the named airport in Euro/USD/JPY/UK Pound/SF/Singapore Dollar or any other Internationally freely tradable currency only. The name of the currency should be clearly indicated in your bids.
- d) In case the vendor quotes the prices on CFR basis and BHEL accepts the delivery term on CFR, **0.25 %** (of CFR Value) towards port handling charges & **1.5 %** (of CFR Value) towards inland freight or actual freight charges as per BHEL freight rate contract whichever is higher, shall be loaded in the prices for ascertaining the landed cost to decide the comparative status of the prices.
- e) However, if BHEL agrees to accept the FOB delivery terms, the FOB prices shall be loaded **2.0%** (of FOB Value) towards sea freight, **0.25%** (of FOB Value) towards port handling charges & **1.5%** (of FOB value) towards inland freight for

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ascertaining the landed cost to decide the comparative status of the prices.

**f) Basis of Evaluation for Bid / Quotation in foreign currency:**

1. Currency exchange rate (TT selling rates of SBI) for evaluation of the bid / quotation received in foreign currency will be as follows:
2. Single part bid – Date of tender opening.
3. Two / Three-part bid – Date of part 1 opening.
4. Reverse auction – Date of part-1 opening.

**Note:** - Financial evaluation of L1, L2 ----- status will be on the basis of Landed Cost to BHEL.

f1) Currency of Evaluation shall be INR.

**g) Evaluation of Indian Agents Commission:**

1. BHEL prefers to deal directly with foreign bidder, wherever required, for procurement of Goods. However, if the Foreign Principal desires to avail services of an Indian Agent then the Principal should ensure compliance to applicable guidelines.
2. The FOB / CIF price quoted will be deemed to be inclusive of Indian Agency commission. Agency commission if payable shall be converted to Indian Rupees at TT buying rates of exchange ruling on tender opening date which shall not be subjected to any further exchange rate variation, as disclosed by the bidder in his quoted FOB / CIF price will be paid in Indian Rupees on receipt & acceptance of Materials or it's installation at destination, as the case may be. The lower of the TT buying rate prevailing on the date of technical bid opening shall be considered for computation of Agency commission.
3. In a tender either the Indian Agent on behalf of Principal / OEM or the Principal / OEM itself can bid, but both cannot bid simultaneously for same item / product in the same Tender. If both OEM and its authorized agent submit their bids separately in that case only the offer of OEM can be considered as an exception.

**h) While submitting your bids please clearly indicate:**

1. Expected weight of goods (lots wise).
2. The size of packed goods.
3. Whether the goods can be dispatched in containers?
4. Port of Loading.
5. Port of Discharge.

### 7. REVERSE AUCTION.

**Wherever RA is declared in the special terms and conditions of tender enquiry, following shall be applicable and Bidders to confirm the same:**

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."

### 8. DELIVERY TERMS.

- a) Goods shall be dispatched by sea, unless stated otherwise in the tender enquiry or purchase order.
- b) Specifically confirm your agreement to change the mode by Air at BHEL's request as per mutually agreed terms even after placement of Purchase Orders.
- c) The Trans-shipment is not permissible in case of Break Bulk Cargo. In rest of the case Trans-shipment condition in BHEL purchase order / letter of credit will be as per Uniform Custom and Practice for documentary credits, UCP 600 of International Standard Bank proceed re-issued by International chamber of Commerce (ICC).

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- d) Any demurrage / Godown Rent payable to the Port Authorities due to any delay attributed by the supplier will be recovered from supplier's account.
- e) A certificate of origin (COO) sanctioned in country of origin from chamber of commerce of the manufacturing country is to be provided mandatorily. However, a certificate of origin (COO) from the countries under the restricted list of Govt. of India will not be acceptable.
- f) For reasons of delay in receipt of documents from suppliers or due to the same being found to be incomplete, and / or faulty, the suppliers shall be responsible to reimburse in all demurrages / wharfages, if any paid by BHEL (for stated reasons).
- g) Load port charges shall be settled by the supplier and not be passed on to BHEL in form of destination charges.
- h) In the event of bidder offering CFR delivery terms for delivery in FCL (Full Container Load), the bidder shall provide 21 days' time free of detention for General Purchase Container / High Cube Container and 14 days for the other types from the date of delivery at delivery port. Wherever the detention free period offered is less than the above specified period, the consequential cost at port of clearance shall be to the account of the bidder. Number of detention free days must be mentioned on Bill of Lading (BL).
- i) In case of CFR delivery, Port congestion charges or any additional charges claimed by shipping line till delivery at destination port shall be to the bidder's account.
- j) The shipping line should be ready to move the containers to consignees nominated CFS (Container Freight Station) yard and Indian agent of shipping line should issue Cargo Arrival Notice (CAN) 7 days in advance for filing the IGM (Import General Manifest) at discharge port.
- k) In case of CFR contract, bidder to supply the material through a Certified Sea worthy vessel.
- l) **The invoices being issued by shipping lines must be in the name of BHEL. Any loss in GST due to submission of discrepant document will be recovered from supplier / vendor.**
- m) While booking the shipment, bidder to also finalize **destination charges** and the same should appear over BL or agreed tariff to be provided to BHEL before arrival of shipment.
- n) If cargo is stuffed in container, then the same should be allowed to be moved to CFS of importers choice without any additional charges.
- o) NNDs (Non Negotiable Documents) (preferably with OBLs) should be sent to BHEL as detailed in para "p" (below), at least 7 days in advance i.e. 7 days before the arrival of vessel so as to enable BHEL to move the containers to JWC CFS.
- p) **Information related to OBL / AWB Documents:**
- I. Consignee name and address should be same as mentioned in the Purchase order.
  - II. Notify party: Name and address will be as follows :( For discharge port Mumbai or Nhava Sheva)  
Bharat Heavy Electricals Limited  
14th Floor World Trade Centre-1, Cuffe Parade, Colaba, Mumbai -400005  
Email: msseahwr@bhel.in & ppximx@bhelh.in (in case of Sea Shipments)  
Email: [msair@bhel.in](mailto:msair@bhel.in) and [ppximx@bhel.in](mailto:ppximx@bhel.in) (in Case of Air shipments)
- For latest updating please refer our web site:  
<https://hwr.bhel.com>
- III. OBL should clearly mention the Indian agent address and contact details.
  - IV. OBL should be issued as per UCP 600.
  - V. In case of shipments other than FOB, OBL should mention the container detention free period.

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VI. In case of placement of an Order, BHEL requests bidder to supply one Original Bill of Lading / AWB directly to BHEL-Mumbai office (Address at Para "p-II") with other non-negotiable documents to ensure timely clearance of goods. The other Original Bill of Ladings (BL) may be routed through bank based on the other agreed terms and conditions of purchase order.

### 9. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY.

#### a) Where items of Purchase Order are independently usable.

Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the Gross Value payable to the vendor (Before LD) against such supplies excluding taxes and duties.

#### b) Where the total items are required for a main equipment and items are interdependent.

Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on total value of Purchase Order subject to maximum of 10% of the total value of Purchase Order. Purchase Order value for this purpose shall be the Total Gross Value payable to the vendor (Before LD) excluding taxes and duties.

"In case of CFR shipment where BHEL accepts the date of inspection as the date of delivery for the purpose of LD, the vendor has to ensure the shipment within 30 days for containerized cargo and 45 days maximum for Break bulk cargo from the date of inspection. Any delay, beyond this period, which is not attributable to BHEL shall be considered for application of LD."

"In case of FOB shipment, vendor has to intimate the readiness of cargo after inspection to BHEL nominated Freight forwarder minimum 15 days in advance for containerized cargo and 30 days in advance for Break bulk cargo before the FOB delivery date. The delay in shipment due to late intimation to BHEL nominated freight forwarder

and not attributable to BHEL will be considered for application of LD".

- c) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement.
- d) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.
- e) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order.
- f) The delivery date for LD purpose will be the Bill of Lading Date/Air way bill.
- g) Payment of Liquidated Damages (LD) shall not in any way relieve the vendor from any of its obligations & liabilities under the contract.

### 10. PAYMENT TERMS.

- a) BHEL's standard payment term is Payment after Receipt and Acceptance of Material / Item at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry.
- b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term.
- c) Where the payments are through bank, the documents may be presented for negotiation through BHEL designated banks which will be specified in Purchase order. Documents should be submitted within 5 days of vessel sailing and receipt of OBL from shipping line.
- d) In case BHEL agrees for payment through LC, the same shall be irrevocable, unconfirmed and will be opened 30 days prior to the scheduled delivery and will be valid for a period of 60 days.

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- e) In case of payment after receipt and acceptance of material, 100% payment will be made within 75 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. In case any discrepancy found in the documents, BHEL will notify the same to vendor within 7 days of receipt. Vendor has to clear all the discrepancies in one go within 7 days thereafter else the payment may get delayed.

**The loading criteria for the different payment terms shall be as under:**

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	<b>No Loading</b>
Against Delivery at BHEL-Stores Haridwar.	<b>45</b>
Against documents through bank (CAD):	<b>45</b>
Letter of Credit (LC)	<b>120</b>
Usance LC	No Loading if usance period is > 120 Days.
	Loading of days difference i.e difference between 120 days and usance period if the usance period is < 120 days.
Advance	Delivery Period + 120 Days -Advance Payment Days

### 11. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit / performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website [www.bhelhwr.co.in](http://www.bhelhwr.co.in). However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL

consortium banks and the bank charges for such confirmation will be borne by the bidder.

### 12. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.

- a) Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 18 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or at our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.
- b) In case the material is rejected, then date of replacement will be considered as the actual date of delivery.
- c) The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement / submission of BG/refund of amount paid.

### 13. QUALITY REQUIREMENT.

Your bid/quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable).

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### 14. VALIDITY.

The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry.

### 15. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.
- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.

- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

### 16. TRANSIT INSURANCE.

- a) Transit Insurance will be covered by BHEL under its open Marine Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR/GR/BL/ AWB, Invoice value etc.) to Finance department (Store bill Section), BHEL Ranipur Haridwar (Uttarakhand -India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
- b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope.

### 17. PHYTOSANITARY CERTIFICATE:

- a) As per the Indian Law, all consignments being imported into India by air / sea require a phytosanitary certificate from the country of origin-if articles have been packed with wooden packaging materials. This is mandatory. Please confirm in your offer / dispatch documents that the required phytosanitary certificate will be submitted.
- b) Packaging material means any kind of material of plant origin used for packing which include hay, straw wood shavings, wood chips, saw dust, wood waste, wooden pallets, dunnage mats, wooden packages, coir pith, peat or sphagnum moss etc.

### 18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part

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thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract or under General Law.

### 19. FORCE MAJEURE CLAUSE.

Notwithstanding any other thing contained anywhere else in the contract or PO (Purchase Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (PO date).

In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- a) Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- b) War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- c) Rebellion, revolution, insurrection, civil war etc.
- d) Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- e) Riots, commotions, strike unless restricted to the employees of supplier.
- f) Acts of terrorism.
- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.

- i) Change in law/ government. Regulation making the performance impossible.
- j) Pandemic or Epidemic.

The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

- a) Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement;
- b) mitigate the effect of any Force Majeure Event; and
- c) Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in the P.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

### 20. NON-DISCLOSURE AGREEMENT.

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other

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technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others or to gain a commercial advantage. BHEL reserves the right to claim damages from the bidder, or take appropriate action as deemed fit against the bidder, for any infringement of the provisions contained herein as available under law or equity.

### 21. SETTLEMENT OF DISPUTES/ARBITRATION.

Any dispute/difference arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration under the Arbitration and Conciliation Act, 1996 of India by a Sole Arbitrator to be appointed with mutual consent of the parties. Such Sole Arbitrator shall be either a retired judge of Supreme Court or High Court or District Court of India or some Advocate having practiced in Indian Courts. The seat or place of arbitration shall be New Delhi, India. The language to be used in the arbitration shall be English. The governing law of the contract shall be the substantive law of India. In case the parties fail to agree on the appointment of arbitrator within 2 months of the notice invoking arbitration by one party, then the arbitrator shall be appointed in accordance with the Arbitration and Conciliation Act, 1996 of India.

**JURISDICTION:** The courts of New Delhi, India, shall have exclusive jurisdiction.

### 22. INFORMATION TO THE BIDDERS.

- a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website <https://hwr.bhel.com>. The user ID & password can be obtained by sending a request to concerned purchase executives.

- b) Intimate your change in mail address or communication address or changes, if any, by email to AGM (SDX/MM) giving your bidder Code.
- c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site <https://hwr.bhel.com>.
- d) Copy of this Tender Enquiry is being sent through the post/ Courier / E-mail or by any existing means.
- e) Invoice description and Unit of measurement should be strictly in accordance with Purchase order.
- f) Unit of measurement for dimension and weight should be in metric system only.
- g) The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.  
In case, the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.
- h) Supplier must upload digitally signed e-Invoice on B2B portal for processing of Bills.  
In other cases, inked signed hard copy of Invoice to be submitted for processing of Bills.

### 23. MAKE IN INDIA (GOVT-NOTIFICATION).

- A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.
- B. The margin of purchase preference shall be 20%.

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- 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this order.
  - 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
  - 'Non- local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.
- C. Vendor to specifically confirm if they are Class-I or Class-II local supplier or not as per above mentioned notification. Accordingly, the 'Class-I local supplier'/ 'Class-II local Supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local Supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the 'Class-I local supplier'/ 'Class-II local Supplier' shall be required to provide a Certificate from the Statutory Auditor or Cost Auditor of the Company (in the case of companies) or from a practicing Cost Accountant or practicing Chartered Accountant (in respect of suppliers other than companies) giving the percentage of Local Content.
- E. Requirement of Purchase Preference:  
Purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified hereunder -
- a. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are divisible in nature, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:
    - i. Among All qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
    - ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local supplier, then such balance quantity may also be ordered on the L1 bidder".
  - b. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:
    - i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
    - ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
    - iii. In case such lowest eligible 'Class-I local supplier', fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference

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shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 prices, the contract may be awarded to the L1 bidder.

- c. 'Class-II local supplier' will not get purchase preference in any procurement, undertaken by procuring entities.
- F. For this procurement, the local content to categorize a supplier as a Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.
- G. Procurements where estimated value to be procured is less than Rs. 5 lakhs shall be exempted from GOI order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020.
- H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement Policy for the Micro and Small Enterprises (MSEs) Amendment Order, 2019, Ref. No. AA: SSP: MSE: Amndt, dtd. 30.11.2018, Circular No. 44 of 2018-19:-
- a. If L1 bid is not from "Class-I local Supplier" and price quoted by MSE bidder falls within the margin of Purchase preference (L1+15% for MSEs), then 25 % of total order quantity of respective item (rounded off to nearest number) shall be awarded to MSE bidder, subject to MSE bidder matching the L1 Price. Out of Remaining 75% quantity, distribution shall be operated as per below sub-clause (2) –
- b. If "Class- I Local Supplier" (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and "Class-I local supplier" matches the L1 price, then 50% of remaining Quantity (after allocation of 25% to MSE) i.e. 37.5% shall be awarded to local supplier and 37.5% shall be awarded to foreign bidder.

*Note: L1 Price refers to lowest evaluated / landed cost to Company.*

For Further details, please refer GOI order no. P-45021 / 2 / 2017 - PP (BE-II) dated 04.06.2020.

### 24. RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall be applicable for this tender enquiry (Order copy is available at <https://doe.gov.in/procurement-policy-divisions>). Accordingly, any bidder from a country which shares a land border with India (except the countries to which the Govt. of India has extended lines of credit or in which the Govt. of India is engaged in development projects for which list is available at <https://www.mea.gov.in/>) will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as specified in Annex I of the said Order of DoE.

Updated list of the countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (<https://www.mea.gov.in/>)

For the purpose of this order, definition of Bidder from a country which shares a land border with India shall be same as defined in the Annex III of the said order.

Registration with the competent authority as stipulated in the said order is responsibility of bidder. Bidder has to submit a certificate certifying following along with offer:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that bidder (.... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

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### 25. NOTE.

- a) Special conditions of enquiry, if enclosed by BHEL, will supersede the respective standard/general terms of enquiry.
- b) Any other Standard terms and Conditions of the bidder attached/referred against the tender enquiry will be treated as null and void ab initio.
- c) In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>
- d) 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.
- e) "BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below;
1. **Victim:** Any person who suffers permanent disablement or dies in an accident as defined below.
  2. **Accident:** Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing / operation and works incidental thereto at BHEL factories/ **offices and precincts** thereof , project execution , erection and commissioning, services, repairs and maintenance, trouble

shooting, serving , overhaul, renovation and retrofitting , trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ project sites.

### 3. Compensation in respect of each of the victims:

- (i) In the event of death or **permanent disability** resulting from **Loss of both limbs:** Rs. 10,00,000/- (Rs. Ten Lakh).
- (ii) In the event of **other permanent disability:** Rs. 7,00,000/- (Rs. Seven Lakh).

Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to Section 2(I) of the Employees Compensation Act, 1923."

f) The bidder shall be in compliance with applicable laws, rules and regulations throughout the terms of the contract for conducting its business generally and to perform its obligations under this contract.

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### 1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of Purchase Order (P.O) until unless the deviations are specifically agreed by BHEL.

### 2. ORIGIN OF QUOTATION.

- a) The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer/agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- b) An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

### 3. SUBMISSION OF TENDER.

- a) Bid / Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER / Dropped in the Tender Box: addressed as follows:

Quotation against Enquiry No. \_\_\_\_\_

Dated: \_\_\_\_\_

Due on: \_\_\_\_\_

To,

**THE HEAD OF MATERIALS MANAGEMENT,  
Heavy Electrical Equipment Plant,  
Bharat Heavy Electricals Limited,  
HARIDWAR-249403 (Uttarakhand), INDIA.**

- b) TENDER ROOM is located at: Room No. - 415, 4<sup>th</sup> Floor, Main Admin. Building, BHEL-HEEP, Haridwar.

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- c) In case of Three / Two Part Bid, technical bid containing technical offer, duly signed and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- d) The bid / quotation must be posted before due date, keeping allowance for postal transit time. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer / bid shall be signed and stamped in each page by authorized representative of the bidder.
- e) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped.
- f) The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The cutting / overwriting in the bid / offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site [www.bhel.com](http://www.bhel.com).
- g) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion such PMD vendor from BHEL's approved vendor list.
- h) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 2 Crore or more.
- i) In case of open tender, technically qualified unregistered bidders may apply online for registration through <http://www.bhel.com/index.php/vender>.
- j) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for.
- k) In case of e-Tendering (Online bidding through e-portal), offline bid submitted in hard copy or in any other form by the vendor / supplier will not be accepted and will be rejected out rightly. Only e-portal bid will be accepted.

#### 4. TENDER OPENING.

Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore, bid / quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. **TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.** The bidders or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter on that particular day. General authorization letter is not acceptable.

***Note: - Foreign bidders willing to attend the bid opening has to provide the requisite documents to the concerned Purchase executives for arranging gate pass for them.***

#### 5. SPECIFICATION, DRAWINGS & STANDARD.

- a) Bidders must give their detailed specification in the quotation along with relevant technical literature / catalogue etc. against the tender enquiry.
- b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry.

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If these documents are not furnished, the offer is liable to be rejected.

- c) Wherever national / international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply.
- d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of BHEL or without permission of BHEL.

### 6. PRICE SCHEDULE.

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
- b) Prices quoted should not be more than the prices quoted to any other BHEL units / offices / divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided.
- c) Prices should be quoted on F.O.R. Destination basis. Transit insurance shall be arranged by BHEL and not to be included in the prices. The offers quoted on other than F.O.R destination basis may result in non-consideration of such bids.
- d) In case BHEL accepts the EX-Works prices, such offers will be loaded by 1.5% of EX-Works value towards freight or with actual freight charges as per BHEL freight rate contract whichever is higher.
- e) In case of Indigenous items covered by DGS & D Rate Contract, the bidders should submit latest valid copy of the rate contract along with bid / quotation
- f) Applicable **IGST / CGST / SGST** and any other statutory levy should be indicated separately and clearly in the bid / quotation.

- g) Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination. If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery BHEL Stores basis.
- h) In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account.
- i) Any demurrage / godown rent payable to the transporter / or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.
- j) Currency of Evaluation shall be INR.

**NB: Financial evaluation of L1, L2 .....Status will be on the basis of Landed Cost to BHEL.**

### 7. REVERSE AUCTION.

**Wherever RA is declared in the special terms and conditions of tender enquiry, following shall be applicable and Bidders to confirm the same:**

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."

### 8. DELIVERY TERMS.

- a) Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the tender enquiry.
- b) Loading on account of 3rd party inspection charges in case of Indian bidders shall be 0.20%.



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### 9. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY.

#### a) Where items of Purchase Order are independently usable.

Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the Gross Value payable to the vendor (Before LD) against such supplies excluding taxes and duties.

#### b) Where the total items are required for a main equipment and items are interdependent.

Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on total value of Purchase Order subject to maximum of 10% of the total value of Purchase Order. Purchase Order value for this purpose shall be the Total Gross Value payable to the vendor (Before LD) excluding taxes and duties.

c) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement.

d) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.

e) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order.

f) **DELIVERY IN CASE OF REJECTION:** In case the material is rejected, then date of replacement will be considered as the actual date of delivery.

g) **DELIVERY AGAINST BANK DOCUMENTS:** In case payment terms quoted by bidder are documents through bank, and the delivery terms being "FOR Haridwar / FOR Transporter Go-down" then date of delivery will be date of intimation by transporter / bidder of delivery of material at Haridwar for the LD purpose.

h) Where the payments are through bank, the documents may be presented for negotiation to BHEL authorized / nominated bank.

i) Payment of Liquidated Damages (LD) shall not in any way relieve the vendor from any of its obligations & liabilities under the contract.

### 10. PAYMENT TERMS.

a) BHEL's standard payment term is Payment after receipt and acceptance of materials / items at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry.

b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term.

c) Loading on account of deviation in payment terms shall be done as per extant rules of BHEL-Haridwar.

d) 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 75 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. In case any discrepancy found in the documents, BHEL will notify the same to vendor within 7 days of receipt. Vendor has to clear all the discrepancies in one go within 7 days thereafter else the payment of vendor may get delayed.

e) For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act.

f) Adherence to the above time schedule of payment is contingent upon Vendor complying with GST Rules w.r.t availment of Input Tax Credit by BHEL.

g) In case GST credit is delayed / denied to BHEL, due to non / delayed receipt of goods and / or tax invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reason not attributable to BHEL, GST amount shall be recoverable from Vendor along with interest levied / leviable on BHEL.

h) The taxes and duties that are reimbursed would be the ones applicable as on the contractual Purchase order delivery date or the amount actually paid whichever is less.

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i) **The loading criteria for the different payment terms shall be as under;**

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	<b>No Loading</b>
Against Delivery at BHEL-Stores Haridwar.	<b>45</b>
Against documents through bank (CAD):	<b>45</b>
Letter of Credit (LC)	<b>120</b>
Usance LC	No Loading if usance period is > 120 Days.
	Loading of days' difference i.e. difference between 120 days and usance period if the usance period is < 75 days.
Advance	Delivery Period + 120 Days - Advance Payment Days.

### 11. TAXES & DUTIES.

- a) The bidder to specify in their offer (part 1 bid) the category of their registration under GST like Registered, Unregistered and composite dealer.
- b) The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Haridwar is "05AAACB4146P1ZL" with state Code as "05" and State Name as "Uttarakhand".
- c) Please quote our provisional GST registration number in all invoices raised for supply of goods and services under GST regime and also ensure filing of timely return and payment of tax and compliance of other applicable provisions on supplier under GST regime.
- d) No GST will be reimbursed to unregistered or composite dealer. In the event, any GST is quoted by composite dealer, the same shall be added to the cost of supply in evaluating the bid.
- e) Since, input credit of GST will be available to BHEL-Haridwar only after correct filing of return and payment of applicable GST by supplier, reimbursement of GST shall be made by

BHEL-Haridwar on matching of vendor inputs at GST portal, ensuring availability of input credit to BHEL Haridwar. Payment of GST will be made to vendor after matching of input credit and vendor to ensure submission of their invoices along with consent to accept payment of tax after such matching in all cases where bills are submitted directly to BHEL-Haridwar or through bank or under LC or through any other mode.

- f) In the event of any disallowance of input credit or applicability of interest or any other financial liability arises on BHEL-Haridwar due to any default of supplier under GST, such implication shall be to supplier's account.
- g) In the event of any change in the status of the vendor after the submission of the bid but before the supply, GST applicable at the time of supply or in the bid, based on the registration status of the vendor, whichever is lower shall be payable.
- h) Where ever applicable If PAN (Permanent Account Number) of the recipient is not available, income tax is deductible either at the normal rate or at the rate of 20 percent, whichever is higher as per Section 206AA of Indian Income Tax Act 1961.
- i) The bidder shall clearly indicate HSN (*Harmonised System Nomenclature*) / SAC (*Service Accounting Code*), its description and applicable rate of GST for each item in his techno-commercial bid.
- j) Statutory Variation in Taxes & duties as applicable at the time of supply shall be payable. However, in the event of no change in law but bidder quoting certain tax structure in bid document which is lower than the applicable one, such amount shall be the maximum amount of tax that can be claimed by bidder.
- k) **IMPORTED GOODS OFFERED BY INDIAN BIDDERS AGAINST DEALER INVOICE:** Wherever the material being offered is imported, the bidder must quote the prices inclusive of IGST. The rate and value of IGST as included in the price must be indicated separately. In case quantum of IGST is not mentioned by the bidder the same will not be considered for



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evaluation. However, bidder will have to pass on the benefit of IGST to BHEL at the time supply.

- l) In case of directly dispatchable items to Customer's Site, BHEL-Haridwar will inform the GST registration number of the respective customer which must be mentioned on the vendor's invoice. Vendor to ensure availability of such information from BHEL-Haridwar before dispatch of any material. However, while filing GSTN-1, BHEL Haridwar GSTN number to be quoted.

Note: - Vendors must ensure compliance of all the applicable rules and procedure as envisaged in the GST Regime. Any loss to BHEL-Haridwar due to fault / non-compliance by the vendor will be to the vendor's account.

### 12. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit/performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website [www.bhelhwr.co.in](http://www.bhelhwr.co.in). However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

### 13. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.

Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 18 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and

replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or at our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.

- b) **RETURN OF REJECTED MATERIAL FOR REPLACEMENT:** The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement / submission of BG / refund of amount paid.

### 14. QUALITY REQUIREMENT.

Your bid / quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable).

### 15. VALIDITY.

The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry.

### 16. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.



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- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for then the latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

### **17. TRANSIT INSURANCE.**

- a) Transit Insurance will be covered by BHEL under its open Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR /GR, Invoice value etc.) to "Finance department (Store bill Section), BHEL Ranipur, Haridwar (Uttarakhand-India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
- b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope.

### **18. RISK PURCHASE.**

In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract or under General Law.

### **19. FORCE MAJEURE CLAUSE.**

Notwithstanding any other thing contained anywhere else in the contract or PO (Purchase Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (PO date).

In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- Rebellion, revolution, insurrection, civil war etc.
- Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- Riots, commotions, strike unless restricted to the employees of supplier.
- Acts of terrorism.



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- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.
- i) Change in law / government. Regulation making the performance impossible.
- j) Pandemic or Epidemic.

The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

- a) Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement.
- b) mitigate the effect of any Force Majeure Event and
- c) Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in this P.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

### **20. NON-DISCLOSURE AGREEMENT.**

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or

subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others or to gain a commercial advantage. BHEL reserves the right to claim damages from the bidder, or take appropriate action as deemed fit against the bidder, for any infringement of the provisions contained herein as available under law or equity.

### **21. SETTLEMENT OF DISPUTES / ARBITRATION.**

In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar.

The proceedings shall be conducted in English. The Governing law of contract shall be the substantive law of India.

### **22. WHARFAGE / DEMURRAGE RESPONSIBILITY.**

In the event of delay in receipt of documents by Manager (Stores-Shipping) BHEL-Haridwar and in case where dispatches are made through Unapproved Transporter the sole responsibility for wharfage / demurrage for such delay shall be that of supplier.

### **23. CONDITIONS FOR AVAILING MICRO & SMALL ENTERPRISES (MSE'S) BENEFITS.**

- a) "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 a CA certificate



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(Format enclosed at annexure-1 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) or vendor has to give Udyog Adhar Memorandum (UAM). 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 is found or the requisite documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above require document are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer. **UAM need not required to be notarized or attested.**

**b)** Any new supplier will be eligible for registration with BHEL as MSE supplier provided at least any one of the following documents are submitted along with application for registration: -

1. Udyog Adhar Memorandum (UAM).
2. Valid National Small Industries Commission (NSIC) Certificate.
3. Entrepreneurs Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) or
4. EM II certificate along with attested copy of CA Certificate (as per prescribed format at annexure-A) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over.
5. However, credentials of all MSE suppliers will be verified before advancing the intended benefits.
6. MSE bidders claiming SC/ST status will have to submit SC/ST certificate of the Proprietor from competent authority. Attested (notarized or attested by Gazetted officer) copy to be submitted along with the offer.
7. In case techno-commercial accepted bidders include MSE source and their prices (based on landed cost – considering quoted prices) are within the price band of 15% w.r.t. L-1 bidder, then BHEL can offer **25%** of quantity of respective item (rounded off to nearest number) to MSE bidders at L-1 price and in case, more than one MSE bidder is in 15 % band and the same is accepted by more than one MSE bidders then **25%** quantities of respective items will be considered for ordering on proportionate basis amongst MSE bidders.
8. There will be minimum of **3%** reservation for women owned MSEs within the above mentioned 25% reservation.
9. The reservation for MSEs owned by SC/ST will be **6.25%** { 25% out of target of 25% - refer para 4 of Public Procurement Policy for the Micro and Small Enterprises(MSEs)}.
10. The definition of MSEs owned by Women Entrepreneurs is clarified as under:
  - a) In case of proprietary MSE, proprietor shall be Woman.
  - b) In case of partnership MSE, the Woman partners shall be holding at least 51% of share in the unit.
  - c) In case of Private Limited companies, at least 51% share shall be held by Women promoters.
11. The definition of MSEs owned by SC/ST is clarified as under:
  - a) In case of proprietary MSE, proprietor(s) shall be SC/ST.
  - b) In case of partnership MSE, the SC/ST partners shall be holding at least 51% of shares in the unit.
  - c) In case of Private Limited companies, at least 51% share shall be held by SC/ST promoters.
12. While distributing the **25%** quantity amongst MSE bidders the decimal points in quantity shall be ignored for all the bidders except the L-1 amongst MSE bidders. Balance quantity after allocating the quantity to other MSE bidders ignoring the quantities in decimal, shall be given to L-1 (amongst MSE) bidder. However, if there are more than one MSE bidder at the same price level than preference for additional quantities due to ignoring off the decimal (as mentioned above) shall be given to the bidder offering favorable terms to BHEL and if the conditions offered are also same then preference will be given to the bidder having high SPR rating.
13. In case there are more than one MSE bidders (with different landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given to the MSE bidder with lowest landed cost.
14. In case there are more than one MSE bidders (with same landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given first, based on the favorable terms in the bid and in case terms are also same, the bidder with high SPR rating shall be given preference.
15. If L1 bidder is MSE bidder, entire quantity will be given to such MSE bidder only.

**## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.**



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16. Note: It may however be noted that MSE guidelines as on date (Date of Technical Bid Opening Part-1) shall prevail.

17. "As per the OM No. F.No. 1(2)(1)/2016-MA dtd. 09.02.2017 issued from the Office of Development Commissioner (Micro, Small & Medium Enterprises), "Traders and agents should not be allowed to avail the benefits extended under the PP Policy."

In view of this, it is clarified that benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists / Dealers / Traders etc. for the items offered but not manufactured by themselves."

#### 24. INFORMATION TO THE BIDDERS.

a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website <https://hwr.bhel.com>. The user ID & password can be obtained by sending a request to concerned purchase executives.

b) Intimate your change in mail address or communication address or changes, if any, by email to AGM (SDX/MM) giving your bidder Code.

c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site <https://hwr.bhel.com>

d) Copy of this Tender Enquiry is being sent through the post.

e) The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.

f) Supplier must upload digitally signed e-Invoice on B2B portal for processing of Bills.

In other cases, inked signed hard copy of Invoice to be submitted for processing of Bills.

#### 25. MAKE IN INDIA (GOVT-NOTIFICATION).

A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.

B. The margin of purchase preference shall be 20%.

- 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this order.
- 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
- 'Non- local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.

C. Vendor to specifically confirm if they are Class-I or Class-II local supplier or not as per above mentioned notification. Accordingly, the 'Class-I local supplier' / 'Class-II local Supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier' / 'Class-II local Supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.

D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the 'Class-I local supplier' / 'Class-II local Supplier' shall be required to provide a Certificate from the Statutory Auditor or Cost Auditor of the Company (in the case of companies) or from a practicing Cost Accountant or practicing Chartered Accountant (in respect of suppliers other than companies) giving the percentage of Local Content.



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### E. Requirement of Purchase Preference:

Purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified hereunder -

a. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are divisible in nature, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among All qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
- ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local supplier, then such balance quantity may also be ordered on the L1 bidder".

b. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling

within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.

- iii. In case such lowest eligible 'Class-I local supplier', fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 prices, the contract may be awarded to the L1 bidder.

c. 'Class-II local supplier' will not get purchase preference in any procurement, undertaken by procuring entities.

F. For this procurement, the local content to categorize a supplier as a Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.

G. Procurements where estimated value to be procured is less than Rs. 5 lakhs shall be exempted from GOI order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020.

H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement Policy for the Micro and Small Enterprises (MSEs) Amendment Order, 2019, Ref. No. AA:SSP: MSE: Amndt, dtd. 30.11.2018, Circular No. 44 of 2018-19;-

a. If L1 bid is not from "Class-I local Supplier" and price quoted by MSE bidder falls within the margin of Purchase preference (L1+15% for MSEs), then 25 % of total order quantity of respective item (rounded off to nearest number) shall be awarded to MSE bidder, subject to MSE bidder matching the L1 Price. Out of Remaining 75% quantity, distribution shall be operated as per below sub-clause (2) –

b. If "Class- I Local Supplier" (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and "Class-I local supplier" matches the L1 price,



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then 50% of remaining Quantity (after allocation of 25% to MSE) i.e. 37.5% shall be awarded to local supplier and 37.5% shall be awarded to foreign bidder.

*Note: L1 Price refers to lowest evaluated / landed cost to Company.*

For Further details, please refer GOI order no. P-45021 / 2 / 2017 - PP (BE-II) dated 04.06.2020.

### 26. RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall be applicable for this tender enquiry (Order copy is available at <https://doe.gov.in/procurement-policy-divisions>). Accordingly, any bidder from a country which shares a land border with India (except the countries to which the Govt. of India has extended lines of credit or in which the Govt. of India is engaged in development projects for which list is available at <https://www.mea.gov.in/>) will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as specified in Annex I of the said Order of DoE.

Updated list of the countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (<https://www.mea.gov.in/>)

For the purpose of this order, definition of Bidder from a country which shares a land border with India shall be same as defined in the Annex III of the said order.

Registration with the competent authority as stipulated in the said order is responsibility of bidder. Bidder has to submit a certificate certifying following along with offer:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that bidder (.... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

### 27. NOTE.

- a) Special conditions of enquiry, if enclosed by BHEL, will supersede the respective standard / general terms of enquiry.
- b) Any other Standard terms and Conditions of the bidder attached / referred against the tender enquiry will be treated as null and void ab initio.
- c) In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>
- d) 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.
- e) "BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below;
  1. **Victim:** Any person who suffers permanent disablement or dies in an accident as defined below.
  2. **Accident:** Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious

## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version June-2021, Rev: 06)

occurrence caused during the manufacturing / operation and works incidental thereto at BHEL factories/ **offices and precincts** thereof , project execution , erection and commissioning, services, repairs and maintenance, trouble shooting, serving , overhaul, renovation and retrofitting , trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ project sites.

### 3. Compensation in respect of each of the victims:

- (i) In the event of death or **permanent disability** resulting from **Loss of both limbs**: Rs. 10,00,000/- (Rs. Ten Lakh).
- (ii) In the event of **other permanent disability**: Rs. 7,00,000/- (Rs. Seven Lakh).

4. Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to Section 2(l) of the Employees Compensation Act, 1923.”

f) The bidder shall be in compliance with applicable laws, rules and regulations throughout the terms of the contract for conducting its business generally and to perform its obligations under this contract.

**BANK GUARANTEE BOND**

**WAM 28**

(Paragraph 4.9.6 of – Works Accounts Manual)

1. In consideration of the Bharat Heavy Electricals Limited, Siri Fort, New Delhi through HEEP Hardwar Division (hereinafter called ‘the Company’) having agreed to exempt \_\_\_\_\_ (hereafter called ‘the said Contractor’ which term includes ‘Suppliers’ for the purpose of this Bond) from the demand under the terms and conditions of an Agreement dt. \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for (hereafter called ‘the said Agreement’) of Security Deposit for the due fulfillment by the said Contractor of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) we,

\_\_\_\_\_ (Indicate the name of the Bank)  
(hereinafter referred to as ‘the Bank’) at the request of \_\_\_\_\_

Contractor(s) do hereby undertake to pay to the Company an amount not exceeding Rs. \_\_\_\_\_ against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reason of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement.

2. We, \_\_\_\_\_ do hereby undertake (indicate the name of the Bank) to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s), of any of the terms or conditions contained in the said Agreement or by reason of the contractor(s), failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ .

3. We undertake to pay to the Company 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 bond shall be valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We \_\_\_\_\_ further agree that the Guarantee  
(Indicate the name of the bank)

herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the due of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_ Office / Department / Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_, we shall be discharged from all the liability under this guarantee there after.

5. We, \_\_\_\_\_, further agree with the company that  
(Indicate the name of the bank)

the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time to 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 company against the said contractor(s) 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 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 company or any indulgence by the company 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.

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

7. We \_\_\_\_\_ lastly undertake not to revoke  
(Indicate the name of the bank)

this guarantee during its currency except with the previous consent of the Company in writing.

Dated the \_\_\_\_\_ day of \_\_\_\_\_

For \_\_\_\_\_  
(Indicate the name of the Bank)

**List of Consortium Banks \* (wef 22.03.2016)**

<b>Nationalised Banks</b>		<b>Nationalised 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 Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	J P Morgan
10	Punjab National Bank		
11	Punjab & Sindh Bank		<b>Private banks</b>
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank

## Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017 & P-45021/2/2017-PP (BE-II) dated 28.05.2018, we hereby certify that we M/s \_\_\_\_\_(supplier name) are local supplier meeting the requirement of minimum local content (50%) as defined in above orders for the material against Enquiry No. \_\_\_\_\_

Details of location at which local value addition will be made is as follows:

\_\_\_\_\_  
\_\_\_\_\_

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and Signature of Supplier

## INTEGRITY PACT

### Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

### and

\_\_\_\_\_, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

### Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for

\_\_\_\_\_. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

### **Section 1- Commitments of the Principal**

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions:

## **Section 2 - Commitments of the Bidder(s)/ Contractor(s)**

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

## **Section 3 - Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

## **Section 4 - Compensation for Damages**

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to

demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

### **Section 5 - Previous Transgression**

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

### **Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors**

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors.
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

### **Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

### **Section 8 - Independent External Monitor(s)**

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

### **Section 9 - Pact Duration**

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/ lodged during currency of IP, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

### **Section 10 - Other Provisions**

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

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For & On behalf of the Principal

For & On behalf of the Bidder/

Contractor

(Office Seal)

(Office Seal)

Place-----

Date-----

Witness:\_\_\_\_\_

Witness:\_\_\_\_\_

(Name & Address) \_\_\_\_\_

(Name & Address) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Item Wise BoQ**

Tender Inviting Authority: PCRI, BHEL, HEEP, Haridwar

Name of Work: Ambient Air Quality Monitoring System (AAQMS) for 660MW Bhusawal Project

Contract No: R/5599/2022/0337/V1

Name of the Bidder/ Bidding Firm / Company :	
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**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

**Note:**

1. Evaluation will be done on Total Landed Cost up to Bhusawal project site considering all items of BOQ together.
2. Indigenous Bidders shall quote prices inclusive of GST. Any other tax shall be taken inclusive in quoted prices.
3. For Foreign bidders, Custom duty and exchange rate as applicable on the date of Part-1 bid opening date will be considered extra for evaluation purpose.
4. For foreign bidders, all taxes in the country of origin shall be taken inclusive in the quoted prices.

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency  To be selected by supplier	BASIC RATE In Figures To be entered by the Bidder.  Indian Bidder to Quote on FOR Bhusawal Site basis  Foreign Bidders to Quote CFR Mumbai Airport Basis	TOTAL AMOUNT, It will be converted based on column L value in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	53	55
1	Lab Items							
1.1	SO2 Analyser Make & Model: (To be Filled by supplier)	1.1	3.0000	No.	INR		0.0000	INR Zero Only
1.2	NO-NO <sub>2</sub> -NO <sub>x</sub> Analyser Make & Model: (To be Filled by supplier)	1.2	3.0000	No.	INR		0.0000	INR Zero Only
1.3	CO Analyser Make & Model: (To be Filled by supplier)	1.3	3.0000	No.	INR		0.0000	INR Zero Only
1.4	CO <sub>2</sub> Analyser Make & Model: (To be Filled by supplier)	1.4	3.0000	No.	INR		0.0000	INR Zero Only
1.5	PM2.5 Analyser Make & Model: (To be Filled by supplier)	1.5	3.0000	No.	INR		0.0000	INR Zero Only
1.6	PM10 Analyser Make & Model: (To be Filled by supplier)	1.6	3.0000	No.	INR		0.0000	INR Zero Only
1.7	Ammonia Analyser Make & Model: (To be Filled by supplier)	1.7	3.0000	No.	INR		0.0000	INR Zero Only

1.8	Benzene Analyser Make & Model: (To be Filled by supplier)	1.8	3.0000	No.	INR		0.0000	INR Zero Only
1.9	Ozone Analyser Make & Model: (To be Filled by supplier)	1.9	1.0000	No.	INR		0.0000	INR Zero Only
2.0	Multipoint, Multi-Gas Calibrator Make & Model: (To be Filled by supplier)	2.0	3.0000	No.	INR		0.0000	INR Zero Only
2.1	Zero Air Generator, Make & Model: (To be Filled by supplier)	2.1	3.0000	No.	INR		0.0000	INR Zero Only
2.2	Hydrogen Generator Make & Model: (To be Filled by supplier)  <b>Note: This is a optional item. BHEL reserves the right to exclude this item from scope as per END user requirement. Same will be informed to bidders before Reverse Auction (RA).</b>	2.2	3.0000	No.	INR		0.0000	INR Zero Only
2.3	Gas Cylinder for SO2 Analyzer with Regulator & Valve	2.3	3.0000	No.	INR		0.0000	INR Zero Only
2.4	Gas Cylinder for NOx Analyzer with Regulator & Valve	2.4	3.0000	No.	INR		0.0000	INR Zero Only
2.5	Gas Cylinder for CO Analyzer with Regulator & Valve	2.5	3.0000	No.	INR		0.0000	INR Zero Only
2.6	Gas Cylinder for CO2 Analyzer with Regulator & Valve	2.6	3.0000	No.	INR		0.0000	INR Zero Only
2.7	Gas Cylinder for Benzene Analyzer with Regulator & Valve , If applicable	2.7	3.0000	No.	INR		0.0000	INR Zero Only
2.8	Gas Cylinder for Ammonia Analyzer with Regulator & Valve	2.8	3.0000	No.	INR		0.0000	INR Zero Only
2.9	Gas Sampling System with SS hood	2.9	3.0000	No.	INR		0.0000	INR Zero Only
3.0	Local DAS with Work Station(PC) & Laser Jet (A4) Printer	3.0	3.0000	Set	INR		0.0000	INR Zero Only
3.1	RF Wireless Connectivity for Local DAS, Central DAS, Display board, PCB Server License & Renewal for use of wireless communication for 3 years	3.1	1.0000	Set	INR		0.0000	INR Zero Only
3.2	Central DAS with PC, Laser Jet Printer & UPS (6 Hour Back up for PC only)	3.2	1.0000	Set	INR		0.0000	INR Zero Only
3.3	UPS (5 KVA Minimum for Analysers & Local DAS, 1 Hour Battery Back-up)	3.3	3.0000	No.	INR		0.0000	INR Zero Only
3.4	Analyzer Shelter with 19" Rack Cabinet, Furniture (01 Cupboard, 01 Table & 02 Revolving Chairs), 1.5T Air Conditioners (2 No. for each AAQMS)	3.4	3.0000	Set	INR		0.0000	INR Zero Only
3.5	Meteorological Monitoring System Make & Model:	3.5	1.0000	Set	INR		0.0000	INR Zero Only
3.6	Consumables/spares required for one year after commissioning of stations	3.6	1.0000	Set	INR		0.0000	INR Zero Only
3.7	O&M contract for one year after commissioning of stations (Minimum 1 visit per quarter during 1-year operation)	3.7	1.0000	Set	INR		0.0000	INR Zero Only

<b>3.8</b>	Electronic Display along with Platform and Mounting structure	<b>3.8</b>	1.0000	No.	<b>INR</b>		<b>0.0000</b>	INR Zero Only
<b>3.9</b>	In any other item required for the completeness of the system	<b>3.9</b>	1.0000	Set	<b>INR</b>		<b>0.0000</b>	INR Zero Only
<b>4.0</b>	Any other component/system required for the installation, commissioning and operation of the quoted model	<b>4.0</b>	1.0000	Set	<b>INR</b>		<b>0.0000</b>	INR Zero Only
<b>4.1</b>	Lumpsum Erection, Commissioning & Training charges for complete scope of work as per clause 9.1 & 9.2 of Annexure 2 (inclusive of everything i.e. To & Fro charges, local conveyance, lodging and boarding etc. and irrespective of no. of man-days) Note: Construction (with material) of suitable platform, earthpit, Installation & Commissioning of the system, Training to the Power Plant Staff at site will be vendor's scope completely.	<b>4.1</b>	1.0000	Set	<b>INR</b>		<b>0.0000</b>	INR Zero Only
<b>Total in Figures</b>							<b>0.0000</b>	Zero Only

**ANNEXURE-6**  
**LIST OF DOCUMENTS TO BE SUBMITTED BY SUCCESSFUL SUPPLIER FOR APPROVAL**  
**POST ORDERING**

DRAWING TITAL	PURPOSE
GENERAL WRITE UP FOR THE SYSTEM	FOR APPROVAL
SCOPE OF WORK – BILL OF MATERIAL	FOR APPROVAL
TECHNICAL DATA SHEET FOR INDIVIDUAL ITEMS FORMING PART OF BOM	FOR APPROVAL
CATALOGUES OF INDIVIDUAL ITEMS	FOR APPROVAL
GENERAL ARRANGEMENT LAYOUT FOR SHELTER NO. 1,2 &3	FOR APPROVAL
GENERAL ARRANGEMENT LAYOUT FOR SHELTER FOUNDATION	FOR APPROVAL
GENERAL ARRANGEMENT LAYOUT FOR ANALYZER RACK IN SHELTER 1, 2 & 3	FOR APPROVAL
ANALYZER FLOW DIAGRAMS FOR SHELTER 1,2&3	FOR APPROVAL
GENERAL SYNOPTIC DIAGRAM - ELECTRICAL & SIGNAL CONNEC1ION FOR SHELTER 1,2&3	FOR APPROVAL
METROLOGICAL MAST WITH FOUNDATION LAYOUT	FOR APPROVAL
ELECTRICAL EARTHING STRIP	FOR APPROVAL
COMMUNICATION LAYOUT	FOR APPROVAL
POWER UTILITY CONSUMPTION	FOR APPROVAL
EARTH PIT DETAILS	FOR APPROVAL
CALIBRATION GAS CYLINDER DETAILS	FOR APPROVAL
DISPLAY MOUNI1NG STRUCTURE LAYOUT	FOR APPROVAL
DISPLAY CIVIL LAYOUT	FOR APPROVAL
ANY OTHER STANDARD DOCUMENT OF MANUFACTURER BUT NOT MENTIONED ABOVE	FOR INFORMATION
QUALITY PLAN	FOR APPROVAL

The documents shall be complete in all respects. To ensure completeness of documents (as per specification) BHEL would have in person meeting/ video-conference within first 15 days of PO (if requested by supplier). However, delay in documents approval due to vague/ in-complete submission of documents shall be on supplier's account.

**On Letter Head of Supplier**

**Technical Compliance Sheet**

We confirm the compliance of each clause of BHEL technical specification as per Annexure- 1 & Annexure -2 of NIT No. R/5599/2022/0337V/1.

We have also submitted signed and stamped copy of Annexure- 1 & Annexure -2 as a token of acceptance of the BHEL technical specification requirement.

Sign and Stamp of Authorized Signatory

OR

We have following deviations w.r.t. BHEL technical specification as per Annexure- 1 & Annexure -2 of NIT No. R/5599/2022/0337V/1.

List of Deviations to be mentioned

(in case of major deviation, your offer is liable for rejection)

Sign and Stamp of Authorized Signatory