

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS

1. SCOPE OF ENQUIRY

Sealed Bids are invited from the bidders for the supply of item 'Continuous Ambient Air Quality Monitoring System (CAAQMS)' as per requirement mentioned below:

A) Requirement for North Chennai

Sl. No.	Material Code & Item Description	Qty.	Delivery Date
1	D55995241036 Sulphur Dioxide (SO ₂) Analyser for CAAQMS	4 Nos.	31/10/2019
2	D55995241044 Oxides of Nitrogen Analyser for CAAQMS	4 Nos.	31/10/2019
3	D55995241052 Carbon Monoxide (CO) Analyser for CAAQMS	4 Nos.	31/10/2019
4	D55995241060 CO ₂ Analyser for CAAQMS	4 Nos.	31/10/2019
5	D55995241079 Suspended Particulate Matter (PM ₁₀) for CAAQMS	4 Nos.	31/10/2019
6	D55995241087 Suspended Particulate Matter (PM _{2.5}) for CAAQMS	4 Nos.	31/10/2019
7	D55995241095 Ozone (O ₃) for CAAQMS	1 Nos.	31/10/2019
8	D55995241109 Central DAS System for CAAQMS	1 No.	31/10/2019
9	D55995241117 Data Acquisition System for CAAQMS	4 Nos.	31/10/2019
10	D55995241125 Uninterrupted Power Supply (UPS) for CAAQMS	4 Nos.	31/10/2019
11	D55995241133 Multipoint Calibrator for CAAQMS	4 No.	31/10/2019
12	D55995241150 Electronic Display for CAAQMS	1 Nos.	31/10/2019
13	D55995234072 Meteorological Monitoring Station for CAAQMS	1 Nos.	31/10/2019
14	D55995241141 Analyser Shelter for CAAQMS	4 Nos.	31/10/2019
15	D55995241184 Mandatory Spares for CAAQMS	1 Set.	31/10/2019

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

B) Requirement for Ennore

Sl. No.	Material Code & Item Description	Qty.	Delivery Date
1	D55995241036 Sulphur Dioxide (SO ₂) Analyser for CAAQMS	4 Nos.	15/09/2020
2	D55995241044 Oxides of Nitrogen Analyser for CAAQMS	4 Nos.	15/09/2020
3	D55995241052 Carbon Monoxide (CO) Analyser for CAAQMS	4 Nos.	15/09/2020
4	D55995241060 CO ₂ Analyser for CAAQMS	4 Nos.	15/09/2020
5	D55995241079 Suspended Particulate Matter (PM ₁₀) for CAAQMS	4 No.	15/09/2020
6	D55995241095 Ozone (O ₃) for CAAQMS	1 Nos.	15/09/2020
7	D55995241109 Central DAS System for CAAQMS	1 No.	15/09/2020
8	D55995241117 Data Acquisition System for CAAQMS	4 Nos.	15/09/2020
9	D55995241125 Untrupted Power Supply (UPS) for CAAQMS	4 Nos.	15/09/2020
10	D55995241133 Multipoint Calibrator for CAAQMS	4 No.	15/09/2020
11	D55995241150 Electronic Display for CAAQMS	1 Nos.	15/09/2020
12	D55995234072 Meterological Monitoring Station for CAAQMS	1 Nos.	15/09/2020
13	D55995241141 Analyser Shelter for CAAQMS	4 Nos.	15/09/2020
14	D55995241184 Mandatory Spares for CAAQMS	1 Set.	15/09/2020

Note: Evaluation will be done **Project Wise** considering all the items (i.e. taking all material codes together) on Total Landed cost to BHEL upto Project site basis.

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

2. PROJECT INFORMATION

Project Name (1)	North Chennai Stage-III (TANGEDCO)
Project Name (2)	Ennore (TANGEDCO)
Name of End Customer	TAMIL NADU GENERATION & DISTRIBUTION CORPORATION LIMITED
Custom Duty Status	Ennore : Custom duty on PROJECT IMPORT (PI) North Chennai : Custom duty on MERIT

3. EARNEST MONEY DEPOSITE (EMD)

- 3.1 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	INR 2,00,000/- (INR Two Lacs only)	Equivalent Foreign currency	Refundable

- 3.2 EMD should be submitted in the form of demand draft/Pay Order/Cash (as permissible under Income Tax Act). The Drafts shall be drawn in favor of "BHEL Haridwar". In case of foreign bidders, E- payment is also acceptable. For E-Payment, the 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	Name: Sh. Sudhir Sharma Design: Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

- 3.3 Bidders already registered at BHEL Haridwar (i.e. PMD Vendors) for this item/package are exempted from submission of the EMD.
- 3.4 MSE Suppliers/Central / State – PSUs / Government departments are exempted from submission of the EMD.
- 3.5 Benefit of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE vendors who are manufactured of offered items against NIT. No MSE benefit shall be provided to Agents /Stockist/Dealers/ Traders etc. for the items offered but not manufactured by themselves.
- 3.6 Bids not accompanied with requisite EMD or bids accompanied with EMD of inadequate value shall not be considered for further evaluation. An opportunity may be given to the bidder for submitting the requisite EMD and the offers would be evaluated only in case, the requisite EMD is received within a time bound period.
- 3.7 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).

4. PRE-QUALIFICATION REQUIREMENT (PQR)

The Pre-Qualification Requirements have been compiled and placed at **ANNEXURE-I**. 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.

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.

5. SUBMISSION OF OFFER

- 5.1 Only English version of all documents would be valid & binding.
- 5.2 Bidders are advised to study all the tender documents carefully. Any submission of tender by the bidder shall be deemed to have been done after careful study and examination of the tender documents and with full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless otherwise specifically commented upon in 'Deviation' sheets by the bidder in his offer. Non-compliance with any of the requirements and instructions in the Tender Enquiry may result in rejection of the offer.
- 5.3 Name of vendor's dealing person with Contact No(s), Email ID and Address of correspondence shall be provided in the bid.
- 5.4 Tenders are to be submitted in Two Parts and Part-I (Techno-Commercial Bid, as detailed below) will be opened first. The offers are to be submitted on or before the Due Date and time, as detailed below:

[A] PART-I: PRE-QUALIFICATION REQUIREMENT (PQR) & TECHNO-COMMERCIAL BID

Comprising of following documents:

- a. Earnest Money Deposit (EMD)/details of EMD in case of E-Payment.
- b. Bidders are required to furnish requisite details and supporting documents as specified in **Pre-Qualification Requirements (PQR)** for meeting the same. The Pre-Qualification requirements is as per enclosed **ANNEXURE-I**.
- c. Complete Technical offer with relevant documents etc. (as per specification attached as **ANNEXURE-II**).
- d. **"INSTRUCTION TO BIDDERS & SPECIAL TERMS OF ENQUIRY"** and **"GISTC (General Instructions and Standard Terms & Conditions against Tender Enquiry)"** are an integral part of this enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be necessarily submitted along with the offer. Deviations if any are to be listed out separately.
- e. Commercial Terms & Conditions.
- f. Any Deviation with reference to technical requirements/specification to be laid down on separate sheet. Acceptance of such technical deviations would be at the discretion of BHEL.
- g. Un-Priced replica of Price Bid writing **QUOTED** against each item.
- h. **Documents for taking up Customer approval (as per clause 7.2 of this document).**
- i. **Supplier Registration Form (SRF):** Online Registration Portal is operational in BHEL. Bidders not registered at BHEL, Haridwar for this item, have to apply through Online Registration portal, <https://supplier.bhel.in/>. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and the application submitted for registration. One set of hard copy of the filled up Supplier Registration Form (SRF) downloaded from Online Registration Portal duly signed and stamped has to be submitted along with the offer.

[B] PART-II: PRICE-BID

Containing Prices is to be submitted in original, strictly as per enquiry conditions for complete scope of tender enquiry. **It is to be noted that Price bid of only customer approved vendors would be opened.**

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

- 5.5 Following shall be super scribed on the envelopes which shall be addressed by name and designation to the official inviting tender:

PART-I (refer clause 5.4 [A]) :

1. TENDER ENQUIRY NO. AND ITEM DESCRIPTION
2. DUE DATE FOR OPENING
3. "TECHNO-COMMERCIAL BID WITH PQR".

PART-II (refer clause 5.5 [B])

1. TENDER ENQUIRY NO AND ITEM DESCRIPTION
2. DUE DATE FOR OPENING
3. "PRICE BID".

- 5.6 Parts – I & II shall be submitted in separate sealed covers duly superscribed as indicated above and shall be enclosed further in a main cover duly sealed and superscribed as:
"OFFER FOR (ITEM NAME) AGAINST ENQUIRY NO. DUE ON CONTAINING PART-I & PART-II Bids". Vendor's full name and address should be clearly mentioned on the envelope.

- 5.7 Envelope not marked with tender enquiry number is liable to be ignored and may not be opened.

- 5.8 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:

To,

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

- 5.9 Tender opening is scheduled to start in the Tender Room at 2:00 PM (IST), on the due date. Therefore bid/quotations must reach this office / tender Box latest by 1:45 PM (IST) 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.
- 5.10 The bid/quotation must be posted before due date, keeping allowance for postal transit time. Alternatively, the tenders duly sealed and super-scribed as above may be deposited in the Tender Box. 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.
- 5.11 **PART-I (Techno-Commercial bid with PQR)** will be opened on Due Date and time specified in the Enquiry, or extension thereof, in presence of tenderers who may like to attend. Incomplete offers are liable to be rejected.
- 5.12 **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 3 above.** The Pre-Qualification requirements have been compiled in enclosed **ANNEXURE-I**.
- 5.13 *After opening of the techno-commercial offer, the offers would be evaluated by BHEL and acceptance shall be subject to End Customer (TSGENCO) approval. Price Bid shall be opened only of the Customer approved vendors.*
- 5.14 All correspondence thereof, shall be addressed to the following persons:

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

Mr. Pooran Kumar Designation: Addl. Engineer (PCRI-BOI) Pollution Control Research Institute HEEP, BHEL, Haridwar- 249403 Uttarakhand, India Email ID: pooran81@bhel.in Tel: +91 1334 28 1941	Mr. Yashpal Singh Designation: Dy. Manager (PCRI-BOI) Pollution Control Research Institute HEEP, BHEL, Haridwar- 249403 Uttarakhand, India Email ID: yash63@bhel.in Tel: +91 1334 28 1941
--	--

- 5.15 Bidders shall be allowed in the tender room in area identified for bidders and only one authorized representative from each bidder shall be allowed.
- 5.16 Bidder shall not be allowed to carry camera/laptop in the tender room. The use of Mobile Phone is also restricted in the Tender Room.
- 5.17 Details of offers shall be read out to bidders and in no case the offers shall be handed over to any of the bidders for noting down.
- 5.18 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).
- 5.19 Vendors operating from BHEL quarters, unauthorized colonies on BHEL Land and Dharamshalas/ Hotels shall not be considered, hence such vendors need not apply.

6 RIGHT OF ACCEPTANCE

- 6.1 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.
- 6.2 Any discount/ revised offer submitted by a bidder on its own shall be accepted provided it is received on or before the due date and time of offer/bid submission (Part-I). Conditional discounts shall not be considered for evaluation of tenders.
- 6.3 Unsolicited discounts/revised offers given after enquiry opening (i.e. Part-I bid opening) shall not be accepted.
- 6.4 In case there is no change in the technical scope and/or specifications and/or commercial terms & conditions, the bidder/s shall not be allowed to change his/their price bid after the due date (i.e. Part-I bid opening).
- 6.5 In case of changes in scope and/or technical specification and/or commercial terms & conditions, having price implications, techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. A cut-off date and time shall be given to all the techno-commercially acceptable bidders to submit the impact on their price bids.
- 6.6 In the event of any bidder, after finalizing the technical specification & scope of supply, opting to revise and submit their latest price bid instead of submitting impact on their price bid asked by BHEL, then their latest price bid shall prevail. However, in such condition their original price bid will necessarily be opened.
- 6.7 After technical & commercial examination of the offers received and clarifications obtained (if required), Part-II (Revised Price Bid/ Original Price Bid along with Price Impact and Discount, if any) shall be opened, for which the date and time shall be intimated to technically and commercially acceptable

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

bidders in case of public opening. BHEL may opt to finalize the prices through Reverse Auction amongst technically and commercially acceptable bidders. BHEL reserves the right to open the earlier price bids, if any, submitted by the bidder(s), if required.

- 6.8 No correspondence shall be entertained from the tenderers after opening of Part-II (Price bid), except clarifications (if any) asked by BHEL in writing.

7 CUSTOMER APPROVAL

- 7.1 **The final acceptance of the offers shall be subject to vendor approval by End Customer (TANGEDCO). BHEL will open the Price Bids of only those vendors who are finally approved by the end customer.**
- 7.2 Following documents should be submitted along with your offer for taking up approval with the end Customer (after qualification of PQR and acceptance by BHEL):
1. Make of the equipment offered
 2. Brief about the Vendor/Company/Organization
 3. Financial data for last three years (Balance Sheet etc.)
 4. List of Customer where similar item is supplied in last three years alongwith performance/Installation certificate.

8 INTEGRITY PACT

- 8.1 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 (IEMs) on the present panel have been appointed by BHEL with approval of CVC to oversee implementation of IP in BHEL.

Sl.	IEM	Address	Phone & Email
1.	Sh Virendra Bahadur Singh, IPS (Retd.) and	H. No. B-5/64, Vineet Khand, Gomti Nagar, Lucknow - 226010	Ph: +91 8853760730 9818377360 vbsinghips@gmail.com
2.	Sh. Arun Chandra Verma, IPS (Retd.)	Flat No. C -1204, C Tower, Amrapali, Platinum Complex, Sector 119, Noida (U.P.)	Ph: +91 8130386387 acverma1@gmail.com

- 8.2 The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial 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 preliminary
- 8.3 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.

Note: No routine correspondence shall be addressed to the IEM (phone/post/email) regarding the clarifications, time extensions or any other administrative queries etc. on the tender issued. All such clarifications/issues shall be addressed directly to the tender issuing (procurement) department's officials whose details are mentioned in clause 5.14.

9 PUBLIC PROCUREMENT / MAKE IN INDIA (GOVT-NOTIFICATION)

For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract / PO / WP against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable.

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

Default purchase preference under Make in India order shall be 20% to suppliers with default minimum local content of 50% for all items / works / services. For further details, please refer our GISTC.

Procurements where the Estimated value to be procured is less than Rs. 5 lakhs shall be exempted from Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018.

10 REVERSE AUCTION

BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non- consideration of their bids, in case BHEL decides to go for RA.

In case BHEL decides to go for Reverse Auction, only those bidders who have given their unconditional acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "Online sealed bid" in the Reverse Auction. Non-submission of "Online Sealed Bid" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

Detailed terms and conditions for RA are enclosed (refer **Annexure-III**)

11 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 www.bhel.com.

12 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).

13 IMPORTANT NOTE

NIT: MATERIAL DETAILS AND INSTRUCTION TO BIDDERS are to be read along with SPECIAL TERMS & CONDITONS OF ENQUIRY (for both Foreign & Indian Bidders) and GISTC (for both Foreign & 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 1345 Hrs IST on the due date) and note that Late Offers shall not be entertained under any circumstances.

14 List of Enclosures

- i. NIT: Material Details and Instruction to Bidders - No. of Pages: 09
- ii. Pre-Qualification Requirement (**Annexure-I**) - No. of Pages: 01
- iii. Technical Specification (**Annexure-II**) - No. of Pages: 28
- iv. Terms & Conditions of Reverse Auction (**Annexure-III**) - No. of Pages: 01
- v. Special Terms & Conditions for Two Part Tender for Foreign Bidders (**Annexure-IV**) - No. of Pages: 04
- vi. Special Terms & Conditions for Two Part Tender for Indian Bidders (**Annexure-V**) - No. of Pages: 04
- vii. Price Format- No. of Pages: 02
- viii. GISTC (For Foreign Bidders) - No. of Pages: 12

	PCRI-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1941	ENQUIRY NO. R/5599/2018/3863V/2 DATE OF ISSUE OF ENQUIRY: 29 /08/2019 ENQUIRY DUE DATE: 19/09/2019 (BY 1345 HRS IST)
--	---	--

- ix. GISTC (for Indigenous Bidders) - No. of Pages: 12
- x. PBG format and List of BHEL consortium Bank - No. of Pages: 03
- xi. Format of Integrity Pact - No. of Pages: 05
- xii. Self-Declaration certificate for Make in India - No. of Pages: 01

For and on behalf of BHEL, Hardwar

SDGM (PCRI-BOI)

ITEM : CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM

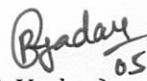
ANNEXURE-I

Indent No. 20183863

Pre- Qualifying Requirement (PQR):

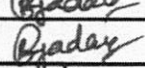
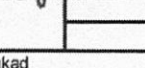
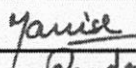
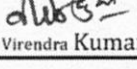
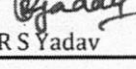
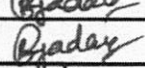
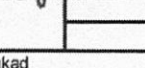
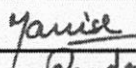
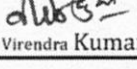
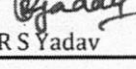
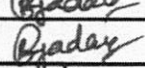
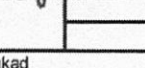
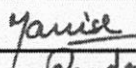
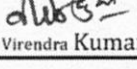
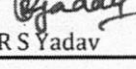
1. The vendor should have supplied, installed and commissioned similar type of system (including minimum PM10/PM2.5, SO₂, NO_x & CO Analyser) in last five years in two numbers thermal power stations of capacity more than 250 MW as on bid opening date. The experience should be of the same type/make of analyser as being offered for the tender enquiry. The following documents to be provided in support of above:
 - a. Self-attested copies of Purchase Orders placed on vendor by customer
 - b. Proof of supply
 - c. Proof of "Installation & Commissioning of System at Thermal Power Stations"
2. The vendor shall submit documentary evidence of turnover of last three years (2016-17, 2017-18 & 2018-19). The average annual turnover should not be less than Rs 1.0 Crore. The self-attested copies of documents, showing the T.O. Value should be submitted as proof.


05/08/2019
(Virendra Kumar)
Dy. Engineer (PCRI)


05/08/19
(R. S. Yadav)
Dy. Manager (PCRI)


(Manish Sachan)
DGM (PCRI)

fnukad ,oa gLRk(kj)		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	PR00541 पेज 1 का 1 Page 1 of 1																												
SUPERSEDES INVENTORY NO. lkezh lwph lal;k dks	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM- SULPHUR DIOXIDE (SO₂) ANALYZER 1.0 Application: Continuous measurement of SO ₂ in ambient air. 2.0 TECHNICAL SPECIFICATION : SULPHUR DIOXIDE (SO₂) ANALYZER BASED ON UV FLUORESCENCE PRINCIPLE 2.1 Range : 0 to 1 PPM (Min. 04 selectable ranges preferably as following: 0 - 100 PPB, 0 - 200 PPB, 0 - 500 PPB, 0 - 1000 PPB) 2.2 Display : LCD/LED 2.3 Minimum Detectable Limit: ±1PPB 2.4 Zero Drift (24 hr. basis): <0.5 ppb of full scale per day 2.5 Span Drift (24 hr. basis): ±1% of full scale per week 2.6 Response time at Lowest Range: 10 to 80 sec. for 0-100% reading 2.7 Linearity: ±1% of full scale reading 2.8 Operating Temperature: 20-30°C 2.10 Accuracy: ±1% 2.11 Signal output 4-20 mA DC & RS 232 or RS 485 2.12 Power supply 240V AC(UPS) 2.13 Mounting Rack mounted																														
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	3.0 Quality Assurance: Calibration and Test certificate for all the analyser should be supplied along with the equipment. 3.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 3.2 Guarantee: The equipment shall be warranty for a period of 24 months from the date of dispatch for the entire system. Failing to comply to the Guarantee clause the offer will be rejected straightway.																														
LoRokf/kdkj ,oa xksj;uh; blizys[k esa nh xbZ lwpuK Hkkr gsoh bysDVdyI dh IEIRr gS bldk izR{k ,oa vizR{k ,lk ls fdlh Hkh rig iz.ksoj lts fd daiuh ds fgr esa gkfudkjkd																															
gLRk(kj) ,oa fnukad	<table border="1"> <tr> <td></td> <td></td> <td></td> <td>uke NAME</td> <td>fnukad ,oa gLRk(kj) SIGNATURE & DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Virendra Kumar</td> </tr> <tr> <td></td> <td></td> <td></td> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td></td> <td></td> <td></td> <td>izos{k.kdrkZ SUPERVISED BY</td> <td>R S Yadav</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Lohd'fr APPROVED : Manish Sachan</td> <td></td> </tr> </table>									uke NAME	fnukad ,oa gLRk(kj) SIGNATURE & DATE				fuekZ.kdrkZ PREPARED BY	Virendra Kumar				tkapdrkZ CHECKED BY	R S Yadav				izos{k.kdrkZ SUPERVISED BY	R S Yadav				Lohd'fr APPROVED : Manish Sachan	
			uke NAME	fnukad ,oa gLRk(kj) SIGNATURE & DATE																											
			fuekZ.kdrkZ PREPARED BY	Virendra Kumar																											
			tkapdrkZ CHECKED BY	R S Yadav																											
			izos{k.kdrkZ SUPERVISED BY	R S Yadav																											
			Lohd'fr APPROVED : Manish Sachan																												
Lkexzh lwph lal;k INVENTORY NO.	<table border="1"> <tr> <td>lger foHkkx AGREED DEPTT</td> <td>uke NAME</td> <td>fnukad ,oa gLRk(kj) DATE & SIGNATURE</td> <td></td> <td></td> </tr> <tr> <td>REV.NO.</td> <td>01</td> <td></td> <td>fuekZ.k PREPARED : Virendra Kumar</td> <td>T+kkjh ISSUED : R S Yadav</td> </tr> <tr> <td>Dt.</td> <td>25.07.2019</td> <td></td> <td></td> <td>fnukad DATE : 25.07.2019</td> </tr> </table>						lger foHkkx AGREED DEPTT	uke NAME	fnukad ,oa gLRk(kj) DATE & SIGNATURE			REV.NO.	01		fuekZ.k PREPARED : Virendra Kumar	T+kkjh ISSUED : R S Yadav	Dt.	25.07.2019			fnukad DATE : 25.07.2019										
lger foHkkx AGREED DEPTT	uke NAME	fnukad ,oa gLRk(kj) DATE & SIGNATURE																													
REV.NO.	01		fuekZ.k PREPARED : Virendra Kumar	T+kkjh ISSUED : R S Yadav																											
Dt.	25.07.2019			fnukad DATE : 25.07.2019																											

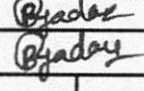
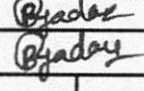
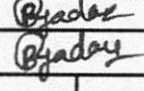
fnukad,oa glrk(kj)		उत्पाद क्रय विनिर्देश		PR00542																																				
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1																																			
lkezh lwph laf,k dks	SUPERSEDES INVENTORY NO.	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM- NITROGEN(NO _x) ANALYZER																																						
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.		1.0 Application: Continuous measurement of NO, NO₂, NO_x in ambient air. 2.0 TECHNICAL SPECIFICATION : OXIDES OF NITROGEN (NO_x) ANALYZER BASED ON CHEMILUMINESCENCE PRINCIPLE 2.1 Range : 0 to 1 PPM (Min. 04 selectable ranges preferably as following: 0 – 100 PPB, 0 – 200 PPB, 0 – 500 PPB, 0 – 1000 PPB) 2.2 Display : LCD/LED 2.3 Minimum Detectable Limit: ± 1 PPB 2.4 Zero Drift (24 hr. basis): <0.5 ppb of full scale per day 2.5 Span Drift (24 hr. basis): ±1% of full scale per day 2.6 Response time : 10 to 80 sec. for 0-100% reading 2.7 Linearity: ±1% of full scale reading 2.8 Operating Temperature: 15-35°C 2.9 Accuracy: ±0.04 ppb (for 500 ppb range) 2.10 Signal output: 4-20 mA DC & RS 232 or RS 485 2.11 Power supply: 240V AC(UPS) 2.12 Mounting: Rack mounted Analysers shall be provided with dual measurement (i.e. mg and ppm) & auto ranging facility. 3.0 Quality Assurance: Calibration and Test certificate for all the analyser should be supplied along with the equipment. 3.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 3.2 Guarantee: The equipment shall be warranty for a period of 24 months from the date of dispatch for the entire system. Failing to comply to the Guarantee clause the offer will be rejected straightway.																																						
LoRokf/kdkj,oa xksih; blizys[k esa nh xBZ lwphk Hkkr gsoh bysDvYdYI dh IEIfr gs bdk izR(k,oa vizr(k :lk ls fdh Hkh rig izksx] tks fd daiuh ds fgr esa gktudkj	glrk(kj,oa fnukad SIGN & DATE	<table border="1"> <tr> <td></td> <td></td> <td></td> <td>uke NAME</td> <td>fnukad,oa glrk(kj SIGNATURE & DATE</td> </tr> <tr> <td></td> <td></td> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Virendra Kumar</td> <td></td> </tr> <tr> <td></td> <td></td> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> <td></td> </tr> <tr> <td>lger foHkkx AGREED DEPTT.</td> <td>uke NAME</td> <td>fnukad,oa glrk(kj DATE & SIGNATURE</td> <td>zSofk.kdrkZ SUPERVISED BY</td> <td>R S Yadav </td> </tr> <tr> <td colspan="2"></td> <td colspan="3">Lohd'fr APPROVED : Manish Sachan </td> </tr> <tr> <td>REV.NO.</td> <td>01</td> <td colspan="2">fuekZ.k </td> <td>T+kkjh </td> </tr> <tr> <td>Dt.</td> <td>25.07.2019</td> <td colspan="2">PREPARED : Virendra Kumar</td> <td>ISSUED : R S Yadav fnukad DATE : 25.07.2019</td> </tr> </table>							uke NAME	fnukad,oa glrk(kj SIGNATURE & DATE			fuekZ.kdrkZ PREPARED BY	Virendra Kumar				tkapdrkZ CHECKED BY	R S Yadav		lger foHkkx AGREED DEPTT.	uke NAME	fnukad,oa glrk(kj DATE & SIGNATURE	zSofk.kdrkZ SUPERVISED BY	R S Yadav 			Lohd'fr APPROVED : Manish Sachan 			REV.NO.	01	fuekZ.k 		T+kkjh 	Dt.	25.07.2019	PREPARED : Virendra Kumar		ISSUED : R S Yadav fnukad DATE : 25.07.2019
			uke NAME	fnukad,oa glrk(kj SIGNATURE & DATE																																				
		fuekZ.kdrkZ PREPARED BY	Virendra Kumar																																					
		tkapdrkZ CHECKED BY	R S Yadav																																					
lger foHkkx AGREED DEPTT.	uke NAME	fnukad,oa glrk(kj DATE & SIGNATURE	zSofk.kdrkZ SUPERVISED BY	R S Yadav 																																				
		Lohd'fr APPROVED : Manish Sachan 																																						
REV.NO.	01	fuekZ.k 		T+kkjh 																																				
Dt.	25.07.2019	PREPARED : Virendra Kumar		ISSUED : R S Yadav fnukad DATE : 25.07.2019																																				



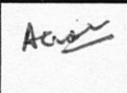
fnukad .oa gLRk{kj		उत्पाद क्रय विनिर्देश		PR00544																																				
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1																																			
				Page	1 of 1																																			
SUPERSEDES INVENTORY NO	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM -CO₂ ANALYZER 1.0 Application: Continuous measurement of CO₂ in ambient air. 2.0 TECHNICAL SPECIFICATION : 2.1 Measuring Principle: NDIR Type with gas filter correlation. 2.2 Range: 0 - 1000 PPM 2.3 Display: LCD/LED 2.4 Minimum Detectable Limit: ± 0.05 ppm 2.5 Zero Drift (24 hr. basis): < 0.1 ppm per day 2.6 Span Drift (24 hr. basis): $\pm 1\%$ per day 2.7 Response time : 60 sec. 2.8 Linearity: $\pm 1\%$ of full scale reading 2.9 Operating Temperature: 20-30°C 2.10 Accuracy: ± 0.1 ppm 2.11 Signal output: 4-20 mA DC & RS 232 or RS 485 2.12 Power supply: 240V AC(UPS) 2.13 Mounting: Rack mounted 3.0 Quality Assurance: Calibration and Test certificate for the analyser should be supplied along with the equipment. 3.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 3.2. Guarantee: The equipment shall be warranty for a period of 24 months from the date of dispatch for the entire system. Failing to comply to the Guarantee clause the offer will be rejected straightway.																																							
Copyright and Confidential The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly, in any way, detrimental to the interest of the company.	LoRokf/kdkj ,oa xksiuh: bl izysfk esa nh xbz lwpuh Hkkj gsoh bysDV^TY dh lEifRr gS bldk izR;k .oa vizR;k : ik is fdh Hkh ng iz:ksxj tks fd duiuh ds fgr esa gktudkj																																							
gLRk{kj ,oa fnukad SIGN. & DATE	<table border="1"> <tr> <td></td> <td></td> <td></td> <td>uke NAME</td> <td>fnukad ,oa gLRk{kj SIGNATURE & DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Virendra Kumar</td> </tr> <tr> <td></td> <td></td> <td></td> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td></td> <td></td> <td></td> <td>iZos{k.kdrkZ SUPERVISED BY</td> <td>R S Yadav</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Lohd'fr APPROVED : Manish Sachan</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>fuekZ.k PREPARED: Virendra Kumar</td> <td>T+kkjh ISSUED : R S Yadav</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>fnukad DATE: 25.07.2019</td> </tr> </table>								uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE				fuekZ.kdrkZ PREPARED BY	Virendra Kumar				tkapdrkZ CHECKED BY	R S Yadav				iZos{k.kdrkZ SUPERVISED BY	R S Yadav				Lohd'fr APPROVED : Manish Sachan					fuekZ.k PREPARED: Virendra Kumar	T+kkjh ISSUED : R S Yadav					fnukad DATE: 25.07.2019
			uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE																																				
			fuekZ.kdrkZ PREPARED BY	Virendra Kumar																																				
			tkapdrkZ CHECKED BY	R S Yadav																																				
			iZos{k.kdrkZ SUPERVISED BY	R S Yadav																																				
			Lohd'fr APPROVED : Manish Sachan																																					
			fuekZ.k PREPARED: Virendra Kumar	T+kkjh ISSUED : R S Yadav																																				
				fnukad DATE: 25.07.2019																																				
Lkexzh lwph la{k INVENTORY NO.	<table border="1"> <tr> <td>lger foHkkx AGREED DEPTT</td> <td>uke NAME</td> <td>fnukad ,oa gLRk{kj DATE & SIGNATURE</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>REV.NO.</td> <td>01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dt.</td> <td>25.07.2019</td> <td></td> <td></td> <td></td> </tr> </table>					lger foHkkx AGREED DEPTT	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE								REV.NO.	01				Dt.	25.07.2019																		
lger foHkkx AGREED DEPTT	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE																																						
REV.NO.	01																																							
Dt.	25.07.2019																																							

fukad .oa gkRk{kj		उत्पाद क्रय विनिर्देश		PR00545	
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1
SuperSEDES INVENTORY NO.	SuperSEDES INVENTORY NO.	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM-PM10 ANALYSERS 1.0 Application: The Continuous Ambient Particulate Monitor measures the mass concentration of suspended particulate matter (PM 10) by use of beta attenuation. In addition, the ambient radioactive influence of natural Radon (Rn-222) gas is measured as a refinement step toward better sensitivity at lower ambient particulate concentrations. Continuous ambient air measurement of PM10. 2.0 PARTICULATE MATTER(PM) 10: 2.1 Measuring Principle: Beta ray attenuation by particulates sampled through the instrument and collected on movable filter tape. 2.2 Accuracy: ±1% 24-hour mode 2.3 Range: 0 - 2000 µg /m³ (Min. 02 selectable ranges) 2.4 Sampling Inlet: 1.PM10Hood 2. PM2.5/TSP-Manually Interchangeable hoods 2.5 Data Storage: 200 days 1-hour sample. 2.6 Cycle: 1 hour. 2.7 Display: LCD/LED 2.8 Resolution: ±1 micro g/m³ of the concentration 2.9 Minimum Detectable Level (24 hrs.): 0.2 µg/m³ 2.10 Air Flow rate: 0-20 SLM user selectable 2.11 Temperature Range: -30° to +60° C 2.12 Mounting: 19" Rack. 3.0 Quality Assurance: Calibration and Test certificate for all the analyser should be supplied along with the equipment. 4.0 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 4.1. Guarantee: The equipment shall be warranted for a period of 24 months from the date of dispatch for the entire system. Failing to comply to the Guarantee clause the offer will be rejected straightway.			
LoRokf/kdkj .oa xksiuH; bl izysfk esa nh xbz lwpuK Hkkr gsoh bys(DV-qY) dh IE/rR gS bldk izR{k .oa vizR{k : ik ls fdH HkH rjg iz:ksx] kks fd daiuh ds fgr esa gkfudkj	LoRokf/kdkj .oa xksiuH; bl izysfk esa nh xbz lwpuK Hkkr gsoh bys(DV-qY) dh IE/rR gS bldk izR{k .oa vizR{k : ik ls fdH HkH rjg iz:ksx] kks fd daiuh ds fgr esa gkfudkj	gkRk{kj .oa fukad SIGN & DATE	uke NAME	fukad .oa gkRk{kj SIGNATURE & DATE	
Lkxzh lwph laj{k INVENTORY NO.	Lkxzh lwph laj{k INVENTORY NO.	lger foHkx AGREED DEPT.	uke NAME	fukad .oa gkRk{kj DATE & SIGNATURE	fuekZ.kdrkZ PREPARED BY Virendra Kumar tkaprkZ CHECKED BY R S Yadav i;Zos{k.kdrkZ SUPERVISED BY R S Yadav Lohd'fr APPROVED : Manish Sachan REV.NO. 00 Dt. 25.07.2019
					T+kkjh PREPARED: Virendra Kumar ISSUED: R S Yadav fukad DATE : 25.07.2019

fnukad_oa glrk(kj)		उत्पाद क्रय विनिर्देश		PR00546																			
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1																		
SUPERSEDES INVENTORY NO				Page	1 of 1																		
lkekzh lwph laf:k dks		CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM-PM2.5 ANALYSER 1.0 Application: : The Continuous Ambient Particulate Monitor measures the mass concentration of suspended particulate matter (PM2.5) by use of beta attenuation. In addition, the ambient radioactive influence of natural Radon (Rn-222) gas is measured as a refinement step toward better sensitivity at lower ambient particulate concentrations. Continuous ambient air measurement of PM2.5. 2.0 PARTICULATE MATTER(PM) 2.5: 2.1 Measuring Principle: Beta ray attenuation by particulates sampled through the instrument and collected on movable filter tape. 2.2 Accuracy: $\pm 1\%$ 24-hour mode 2.3 Range: 0 - 2000 $\mu\text{g}/\text{m}^3$ (Min. 02 selectable ranges) 2.4 Sampling Inlet: 1.PM10Hood 2. PM2.5/TSP-Manually Interchangeable hoods 2.5 Data Storage: 200 days 1-hour sample. 2.6 Cycle: 1 hour. 2.7 Display: LCD/LED 2.8 Resolution: $\pm 1 \mu\text{g}/\text{m}^3$ of the concentration 2.9 Minimum Detectable Level (24 hrs.): 0.2 $\mu\text{g}/\text{m}^3$ 2.10 Air Flow rate: 0-20 SLM user selectable 2.11 Temperature Range: -30° to $+60^\circ\text{C}$ 2.12 Mounting: 19" Rack. 3.0 Quality Assurance: Calibration and Test certificate for all the analyser should be supplied along with the equipment. 4.0 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 4.1. Guarantee: The equipment shall be warranted for a period of 24 months from the date of dispatch for the entire system. Failing to comply to the Guarantee clause the offer will be rejected straightway.																					
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.		LoRok/kdkj_oa xksiuuh; bi iz/sfk esa nh xbz lwph Hkkj gsoh bysDv'dYi dh IEIRr gS bldk izR;k_oa vizR;k ik is fdH Hkh rjg iz:ksx tks fd dluh ds fgr esa gktudkj																					
glrk(kj)_oa SIGN & DATE	<table border="1"> <tr> <td>uke NAME</td> <td>fnukad_oa glrk(kj) SIGNATURE & DATE</td> </tr> <tr> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Virendra Kumar</td> </tr> <tr> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td>iZos(k.kdrkZ SUPERVISED BY</td> <td>R S Yadav</td> </tr> <tr> <td>Lohd'fr APPROVED : Manish Sachan</td> <td>Manish Sachan</td> </tr> <tr> <td>fuekZ.k PREPARED: Virendra Kumar</td> <td>T+kkjh ISSUED : R S Yadav</td> </tr> <tr> <td>REV.NO.</td> <td>00</td> </tr> <tr> <td>Dt.</td> <td>25.07.2019</td> </tr> <tr> <td colspan="2">fnukad DATE: 25.07.2019</td> </tr> </table>					uke NAME	fnukad_oa glrk(kj) SIGNATURE & DATE	fuekZ.kdrkZ PREPARED BY	Virendra Kumar	tkapdrkZ CHECKED BY	R S Yadav	iZos(k.kdrkZ SUPERVISED BY	R S Yadav	Lohd'fr APPROVED : Manish Sachan	Manish Sachan	fuekZ.k PREPARED: Virendra Kumar	T+kkjh ISSUED : R S Yadav	REV.NO.	00	Dt.	25.07.2019	fnukad DATE: 25.07.2019	
uke NAME	fnukad_oa glrk(kj) SIGNATURE & DATE																						
fuekZ.kdrkZ PREPARED BY	Virendra Kumar																						
tkapdrkZ CHECKED BY	R S Yadav																						
iZos(k.kdrkZ SUPERVISED BY	R S Yadav																						
Lohd'fr APPROVED : Manish Sachan	Manish Sachan																						
fuekZ.k PREPARED: Virendra Kumar	T+kkjh ISSUED : R S Yadav																						
REV.NO.	00																						
Dt.	25.07.2019																						
fnukad DATE: 25.07.2019																							
Lkekzh lwph laj:k INVENTORY NO.	<table border="1"> <tr> <td>lger foHkkx AGREED DEPTT.</td> <td>uke NAME</td> <td>fnukad_oa glrk(kj) DATE & SIGNATURE</td> <td colspan="3"></td> </tr> </table>					lger foHkkx AGREED DEPTT.	uke NAME	fnukad_oa glrk(kj) DATE & SIGNATURE															
lger foHkkx AGREED DEPTT.	uke NAME	fnukad_oa glrk(kj) DATE & SIGNATURE																					

fnukad .oa gLRk(kj)		उत्पाद क्रय विनिर्देश		PR00547																																								
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1																																							
Lkexzh lwph laf.k dks	SUPERSEDES INVENTORY NO.	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM - OZONE ANALYSER																																										
		1.0 Application: Using UV Photometric technology, the Analyser shall measure the amount of ozone in the air from ppb levels up to ppm. The Analyser shall be based on Beer Lambert Law for measuring low ranges of Ozone in Ambient Air. 2.0 TECHNICAL SPECIFICATION : 2.1 Measuring Principle: Based on UV Photometric. 2.2 Range: 0 - 10 PPM 2.3 Display: LCD/LED 2.4 Accuracy: ± 0.1 PPM 2.5 Minimum Detectable Limit: ± 0.006 PPM 2.6 Zero Drift (24 hour): < 1.0 PPB/24 hour 2.7 Span Drift: 1% of reading per 7 days 2.8 Lag time: < 20 sec 2.9 Rise and Fall time: < 20 seconds to 95% 2.10 Zero Noise: < 0.3 ppb 2.11 Span Noise: $< 0.5\%$ of reading above 100ppb(RMS) 2.12 Sample Flow Rate: 0.8 litres/ min. 2.12 Power Requirements: 220-240VAC, 50 Hz, 250 Watts 2.13 Linearity : 1% full scale 2.14 Calibration: Built-in Calibration Facility 2.15 Mounting: Suitable for 19" Rack Mounting 2.16 Outputs: Serial port1 RS232(DB-9m) 3.0 Quality Assurance: Calibration and Test certificate for all the analyser should be supplied along with the equipment. 3.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 3.2 Guarantee: The equipment shall be warranty for a period of 24 months from the date of dispatch for the entire system. Failing to comply to the Guarantee clause the offer will be rejected straightway.																																										
LoRokf/kdkj ,oa xksiuH; bizysfk esa nh xBZ lwpuK HkKjR gsoh bysfDV-yYI dh IEIIR; gS bldk izR;k .oa vizR;k -lk is fdh Hkh rig iz:ksj lks fd dluh ds fgr esa gkludkj	COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited it must not be used directly or indirectly in any way detrimental to the interest of the company	<table border="1"> <tr> <td>gLRk(kj) .oa fnukad SIGN & DATE</td> <td colspan="2">fuekZ.kdrkZ PREPARED BY</td> <td>uke NAME</td> <td>fnukad .oa gLRk(kj) SIGNATURE & DATE</td> </tr> <tr> <td rowspan="2">Lkexzh lwph laf.k INVENTORY NO.</td> <td>tkapdrkZ CHECKED BY</td> <td colspan="2">R S Yadav</td> <td rowspan="2">  </td> </tr> <tr> <td>lger foHkKX AGREED DEPTT</td> <td>uke NAME</td> <td>fnukad .oa gLRk(kj) DATE & SIGNATURE</td> <td>i:Zos(k.kdrkZ SUPERVISED BY</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Lohd'fr</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">APPROVED : Manish Sachan</td> <td></td> </tr> <tr> <td colspan="2">REV.NO.</td> <td>01</td> <td colspan="2">PREPARED : Pooran Kumar</td> </tr> <tr> <td colspan="2">Dt.</td> <td>25.07.2019</td> <td colspan="2">ISSUED : R S Yadav</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>fnukad DATE: 25.07.2019</td> </tr> </table>				gLRk(kj) .oa fnukad SIGN & DATE	fuekZ.kdrkZ PREPARED BY		uke NAME	fnukad .oa gLRk(kj) SIGNATURE & DATE	Lkexzh lwph laf.k INVENTORY NO.	tkapdrkZ CHECKED BY	R S Yadav			lger foHkKX AGREED DEPTT	uke NAME	fnukad .oa gLRk(kj) DATE & SIGNATURE	i:Zos(k.kdrkZ SUPERVISED BY			Lohd'fr					APPROVED : Manish Sachan			REV.NO.		01	PREPARED : Pooran Kumar		Dt.		25.07.2019	ISSUED : R S Yadav						fnukad DATE: 25.07.2019
gLRk(kj) .oa fnukad SIGN & DATE	fuekZ.kdrkZ PREPARED BY		uke NAME	fnukad .oa gLRk(kj) SIGNATURE & DATE																																								
Lkexzh lwph laf.k INVENTORY NO.	tkapdrkZ CHECKED BY	R S Yadav																																										
	lger foHkKX AGREED DEPTT	uke NAME	fnukad .oa gLRk(kj) DATE & SIGNATURE		i:Zos(k.kdrkZ SUPERVISED BY																																							
		Lohd'fr																																										
		APPROVED : Manish Sachan																																										
REV.NO.		01	PREPARED : Pooran Kumar																																									
Dt.		25.07.2019	ISSUED : R S Yadav																																									
				fnukad DATE: 25.07.2019																																								

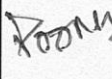
fnukad ,oa gLrk{kj		उत्पाद क्रय विनिर्देश		PR00548			
		PRODUCT PURCHASE SPECIFICATION		पेज	2	का	1
SUPERSEDES INVENTORY NO.				Page	1	of	2
Lkxzh lwph la{k dk		CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM -CENTRAL DAS SYSTEM 1.0 Application: Central Das System for AAQMS System. 1.1 Central AAQMS monitoring Monitoring and report generation of AAQMS for the whole power station shall be carried out through a centralised work stations based data acquisition system with coloured A4 sized Laser Jet Printer. For this purpose, all data from each AAQMS stations shall be collected in centralized AAQMS DAS monitoring system. Central AAQMS shall also be connected to Plant DDCMIS & MIS server for monitoring thru bidirectional dual redundant OPC link. Necessary Software for the Purpose shall be Loaded into DDCMIS. 1.2 Central AAQMS DAS system shall perform following functions: 1. To collect all the data from individual AAQMS stations at prescribed time or on request. 2. Ability to manage multiple remote AAQMS stations. 3. Monitoring, analyse, report generation and archiving of data. 1.3 Central AAQMS DAS system software shall have following features a) Calculation of arithmetic mean values, average values at different fixed intervals and user defined time periods like hourly/weekly/monthly/yearly etc. for each remote station. b) Calculation of pollution load and wind roses (by interfacing meteorological data). 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/graphics etc. e) Calculation of reports for pollution load, wind roses, station etc. f) Comparison of data of various parameters for the same monitoring station. g) Inter comparison of data between different monitoring stations. h) Generation of reports for real time data and based on archived data. 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.					
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company							
LoRokf/kdkj ,oa xksiuh; bi izys{k esa nh xbZ lwpuh HkKjr gsoh bysDv'ndYI dh IEIfRr gS bldk izR{k ,oa vizR{k : Ik is fdH Hkh rjg izksx tks fd dluh ds fgr esa gktudjgd							
gLrk{kj ,oa fnukad SIGN & DATE							
Lkxzh lwph la{k INVENTORY NO.							
Iger foHkx AGREED DEPTT.		uke NAME	fnukad ,oa gLrk{kj DATE & SIGNATURE	i;Zos{k.kdrkZ BY	Lohd'fr APPROVED : Manish Sachan	fnukad ,oa gLrk{kj SIGNATURE & DATE	
REV.NO.		00	fuekZ.k PREPARED : Pooran Kumar		T+kkjh ISSUED : R S Yadav	fnukad DATE :	
Dt.		03.10.2018					

fukad .oa glrk{kj SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		PR00548 पेज 2 का 2 Page 2 of 2			
SUPERSEDES INVENTORY NO lkexzh lwph la{k dks vfkdrZer djrk GS	1.4 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:- ➤ Intel Core™ 2 Duo or higher ➤ RAM: 2 GB or higher ➤ Hard Disk: 160 GB or higher ➤ OS: Window 7 ➤ CD-ROM: 52 X CD-ROM Drive IDE compatible ➤ Monitor: 17" SVGA color monitor ➤ Ports: 2 serial & 1 parallel ➤ Keyboard: Standard Windows Keyboard ➤ Mouse: Mouse + Pad ➤ Software: Windows based data logging/driver software with a provision to averaging out data at selectable interval and graphical representation of data.						
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	2.0 Quality Assurance: Test certificate for the System should be supplied along with the equipment. 2.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 2.2. Guarantee: The equipment shall be guaranteed for a period of 24 months from the date of Dispatch. Failing to comply to the Guarantee clause the offer will be rejected straightway.						
LoRokf/kdkj ,oa xksih; bl izysfk esa nh xbZ lwpuK Hkkj gsoh bysDV/dYI dh IEIRr GS bldk izR;{k ,oa vizR;{k :lk ls fdh Hkh rjg iz;ksx] tks fd daiuh ds fgr esa gkfudkj							
glrk{kj ,oa fukad SIGN & DATE	REV.NO.	00	fuekZ.kdrkZ PREPARED BY	R.S.Yadav			
Lkexzh lwph la{k INVENTORY NO.			TkkapdrkZ CHECKED BY	Ambrish Goel			

fnukad .oa glrk(kj SIGN & DATE		उत्पाद क्रय विनिर्देश		PR00549			
		PRODUCT PURCHASE SPECIFICATION		पेज	2	का	2
SUPERSEDES INVENTORY NO.				Page	2	of	2
lkexzh lwph laj;k dks vfkazfer djrk GS		Redundant hardwired LAN connectivity or industrial grade RF based wireless mesh network (as decided during detailed engineering depending upon the distance between individual AAQMS station and centralized AAQMS station) shall be provided for each AAQMS station for data communication with centralized AAQMS station. 1.2 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:- ➤ Intel Core™ 2 Duo or higher ➤ RAM: 2 GB or higher ➤ Hard Disk: 160 GB or higher ➤ OS: Window 7 ➤ CD-ROM: 52 X CD-ROM Drive IDE compatible ➤ Monitor: 17" SVGA color monitor ➤ Ports: 2 serial & 1 parallel ➤ Keyboard: Standard Windows Keyboard ➤ Mouse: Mouse + Pad ➤ Software: Windows based data logging/driver software with a provision to averaging out data at selectable interval and graphical representation of data. ➤ A4 size sized Laser Jet Printer 2.0 Quality Assurance: Test certificate for the System should be supplied along with the equipment. 2.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 2.2. Guarantee: The equipment shall be guaranteed for a period of 24 months from the date of Dispatch. Failing to comply to the Guarantee clause the offer will be rejected straightway.					
LoRok/kdkj ,oa xksiuuh; bl izys[k esa nh xBZ lwpuK Hkkjr gsoh bysDVdYI dh lEiRr vizR;(k :lk :lk is fdth Hkh rjg iz:ksx) tks fd datuh ds fgr esa gkfudkj							
glrk(kj .oa fnukad SIGN & DATE							
Lkxexzh lwph laj;k INVENTOR		REV.NO.	00 Dated 03.10.2018	fuekZ.kdrkZ PREPARED BY	Pooran Kumar		
				TkkapdrkZ CHECKED BY	R.S.Yadav		

fnukad ,oa gLRk{kj		उत्पाद क्रय विनिर्देश		PR00550																													
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1																												
SUPERSEDES INVENTORY NO		CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM-UNINTERRUPTED POWER SUPPLY (UPS)																															
lkezh lwph laf{k dks		1.0 Application: UPS of required capacity to run AAQMS & DAS Only. 1.1 UNINTERRUPTED POWER SUPPLY SPECIFICATION : The AAQMS system shall be powered from AC Single Phase 230 V 50Hz uninterrupted power supply. The system shall be provided with power back up in the form of UPS for 60 Minutes of backup. UPS shall be installed in the closed confinement of Shelter. (UPS is only for Analysers and DAS & not for AC.). 2.0 Quality Assurance: Test certificate for the System should be supplied along with the equipment. . 3.0 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 3.1. Guarantee: The equipment shall be guaranteed for a period of 24 months from the date of Dispatch for the entire system. <i>Failing to comply to the Guarantee clause the offer will be rejected straightway.</i>																															
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company																																	
LoRokf/kdkj ,oa xksiuuh; bi izys{k esa nh xbz lwpuK Hkkjr gsoh bysDVydYI dh lEIRr gS bldk izR;{k ,oa vizR;{k :lk ls fdlh Hkh rjg iz;ksx} tks fd dluuh ds fgr esa gktudkj d																																	
gLRk{kj ,oa SIGN & DATE		<table border="1"> <tr> <td colspan="2"></td> <td>uke NAME</td> <td>fnukad ,oa gLRk{kj SIGNATURE & DATE</td> </tr> <tr> <td colspan="2"></td> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Pooran Kumar</td> </tr> <tr> <td colspan="2"></td> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td>lger foHkkx AGREED DEPTT.</td> <td>uke NAME</td> <td>fnukad ,oa gLRk{kj DATE & SIGNATURE</td> <td>i;Zos{k.k.kdrkZ SUPERVISED BY</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Lohd"fr APPROVED : Manish Sachan</td> </tr> <tr> <td>REV.NO.</td> <td>00</td> <td>fuekZ.k PREPARED : Pooran Kumar</td> <td>T+kkjh ISSUED : R S Yadav</td> </tr> <tr> <td>Dt.</td> <td>03.10.2018</td> <td colspan="2">fnukad DATE : 03.10.2018</td> </tr> </table>						uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE			fuekZ.kdrkZ PREPARED BY	Pooran Kumar			tkapdrkZ CHECKED BY	R S Yadav	lger foHkkx AGREED DEPTT.	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE	i;Zos{k.k.kdrkZ SUPERVISED BY			Lohd"fr APPROVED : Manish Sachan		REV.NO.	00	fuekZ.k PREPARED : Pooran Kumar	T+kkjh ISSUED : R S Yadav	Dt.	03.10.2018	fnukad DATE : 03.10.2018	
		uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE																														
		fuekZ.kdrkZ PREPARED BY	Pooran Kumar																														
		tkapdrkZ CHECKED BY	R S Yadav																														
lger foHkkx AGREED DEPTT.	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE	i;Zos{k.k.kdrkZ SUPERVISED BY																														
		Lohd"fr APPROVED : Manish Sachan																															
REV.NO.	00	fuekZ.k PREPARED : Pooran Kumar	T+kkjh ISSUED : R S Yadav																														
Dt.	03.10.2018	fnukad DATE : 03.10.2018																															

fukad ,oa gLrk(kj) SIGN & DATE		उत्पाद क्रय विनिर्देश		PR00551			
		PRODUCT PURCHASE SPECIFICATION		पेज	2	का	1
Lkexzh lwph laj(k) INVENTORY NO.	SUPERSEDES INVENTORY NO.	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM – MULTI-POINT GAS CALIBRATOR To cross check the built-in-calibration facility of the analysers/Monitors, a standard Multi-Gas calibration system for each AAQMS Station with fast response time shall be offered by the vendor for SO₂ and NO_x(Vendor to give complete details thereof) which can be used manual or remote multi-point generation of gas concentrations from one to several high concentration span gas cylinders. The multi gas calibration system shall meet the USEPA or TUV or /4AB of Germany, Enut Canada, Enut Japan, EEC etc requirements.		Pag e	1	of	2
1.0 Application: Calibrate ambient air and other Gas Monitoring instrument. 1.1 MULTI - POINT CALIBRATOR (As per USEPA requirement) Specifications: 1.2 Flow Measurement Accuracy: $\pm 1\%$ of set point or $+ 1\%$ of full scale reading (In 20-100%) whichever is less 1.3 Repeatability of flow control: $\pm 0.2\%$ of full scale reading 1.4 Linearity of mass flow Measurement: $\pm 0.5\%$ of full scale reading 1.5 Calibration gas input ports: 6 nos 1.6 Response time: <60 sec. for 0-99 % 1.7 Temperature range: 0-40°C 1.8 Power supply: 240V AC(UPS)		2.0 Analyser gas sampling system shall be complete with sampling hood arrangement with SS hood, SS 316 manifold, moisture trap, air compressor of requisite capacity (minimum 10 LPM) and heat less type air dryer. 2.1 Zero air generators shall be with inbuilt catalytic converter. 2.2 The analysers should be complete with calibration system. Calibration gas cylinders for NO_x, SO₂, CO & CO₂ analysers as required of appropriate capacity suitable for minimum 6 months calibration with SS 316 regulator. All the calibration gases provided along with the system must be NIST traceable. The analyser must have zero point internal calibration system. The calibration procedure shall be integrated into the software system for automatic calibration.					
LoRokf/kdkj ,oa xksiu; bi izysft esa nh xbz lwpuK Hkkj gsoh bysDVdYI dh IEIfRr gS bldk izR;fk ,oa vizR;fk -lk is fdlh Hkh rig iz;ksx] lks fd dnuh ds fgr esa gktudkj		gLR(kj) ,oa fnukad SIGN & DATE		uke NAME		fnukad ,oa gLrk(kj) SIGNATURE & DATE	
Lkexzh lwph laj(k) INVENTORY NO.		lger foHkkx AGREED DEPTT.		uke NAME		fnukad ,oa gLrk(kj) DATE & SIGNATURE	
				fuekZ.kdrkZ PREPARED BY		Pooran Kumar	
				tkapdrkZ CHECKED BY		R S Yadav	
				i;Zos(k.kdrkZ SUPERVISED BY		R S Yadav	
				Lohd'fr			
				APPROVED : Manish Sachan			
				fuekZ.k			
				PREPARED : Pooran Kumar		T+kkjh ISSUED : R S Yadav	
						fnukad DATE : 03.10.2018	

ftrukad ,oa glrk{kj SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	PR00551			
SUPERSEDES INVENTORY NO. lkexzh lwph laj;k dks vfkdzfer djrk QS			पेज Page	2 2	का of	2 2
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company		2.3 All the Analyser shall be provided with dual range & auto ranging facility. 2.4 Hydrogen generator complete with fluid tank and all accessories –hydrogen purity of >99.99%. 2.5 All consumables like Chemical reagents, filters, markers, papers etc. shall be provided by Vendor. 2.6 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. 3.0 Quality Assurance: Calibration and Test certificate for all the analyser should be supplied along with the equipment. 4.0 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 4.1. Guarantee: The equipment shall be warrantee for a period of 24 months from the date of dispatch for the entire system. <i>Failing to comply to the Guarantee clause the offer will be rejected straightway.</i>				
LoRokf/kdkj ,oa xksiuH; bl izys{k esa nh xBZ lwpuK Hkkjr gsoh bysDV^dY dh IEIfRr gS bldk izR;k ,oa vizR;k :lk :ls fdlh Hkh fig iz;ksj tks fd dluh ds fgr esa gktudkj						
glrk{kj ,oa ftrukad SIGN & DATE						
Lkexzh lwph la;k INVENTORY NO.	REV.NO. 00		fuekZ.kdrkZ PREPARED BY	Pooran Kumar		
			TkkapdrkZ CHECKED BY	R.S.Yadav		

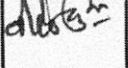
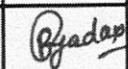
fnukad .oa gLRk{kj		उत्पाद क्रय विनिर्देश		PR00554	
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1
SUPERSEDES INVENTORY NO.	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM-ELECTRONIC DISPLAY BOARD				
lkexzh lwph la{k;k dks	1.0 Application: Electronic Display Board to be provided for AAQMS station.				
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	1.1 ELECTRONIC DISPLAY BOARD SPECIFICATION :				
	A LED display board to display the parameters of the AAQMS from central station with specification as below:				
	S. No	Features	Essential / Minimum Requirement		
	1	Size of the display	4' (H) X 8' (L)		
	2	Visibility Range	80-100m		
	3	No of Display lines	4		
	4	Display of color elements	Color (RGY)		
	5	Minimum life span	5 years		
	6	Ambient Temperature	Maximum 50 deg.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	(i) 16-Analog signals from stack monitoring Device. (ii) Data communication through RS 232/485/Ethernet or suitable protocol from CAAQMS station for all parameters of AAQMS.			
LoRokf/kdkj ,oa xksiu;h; bl izyslk esa nh xiz lwphuk Hkkrj gsoh bysDV^dYI dh IEIfr gS bldk iZk;{k .oa vizR;{k :lk :ls fdlh Hkh rjg iz;ksx] tks fd duiuh ds fgr esa gkfudkj	2.0 Quality Assurance: Test certificate for the Electronic Display Board should be supplied along with the equipment.				
gLRk{kj .oa fnukad SIGN & DATE	3.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications.				
	3.2. Guarantee: The equipment shall be guaranteed for a period of 24 months from the date of Dispatch. Failing to comply to the Guarantee clause the offer will be rejected straightway.				
Lkxexzh lwph la{k;k INVENTORY NO.	Iger foHkxx AGREED DEPTT.		uke NAME	fnukad .oa gLRk{kj DATE & SIGNATURE	uke NAME
			fuekZ.kdrkZ PREPARED BY	Pooran Kumar	fnukad .oa gLRk{kj SIGNATURE & DATE
		tkapdrkZ CHECKED BY	R S Yadav		
		i;Zos{k.kdrkZ SUPERVISED BY	R S Yadav		
		Lohd'fr APPROVED : Manish Sachan			
REV.NO.	00	fuekZ.k	T+kkjh	fnukad	
Dt.	Dated 03.10.2018	PREPARED : Pooran Kumar	ISSUED : R S Yadav	DATE :03.10.2018	

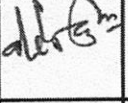
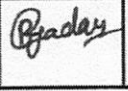
fnukad ,oa gLR{kj		उत्पाद क्रय विनिर्देश		PR00552																															
		PRODUCT PURCHASE SPECIFICATION		पेज	3 का 1																														
SUPERSEDES INVENTORY NO.	lkexzh lwph laj{k dks	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM WITH MMS																																	
1.0 Meteorological Monitoring System (MMS)		Meteorological data shall be monitored with the Plant Premises at One (1) Location. The Exact Location of the Monitoring Station shall be Decided in Consultation with Owner During Project Implementation Phase based on the Central & State PCB Guidelines. The Following Parameters shall be Monitored: 1. Wind Direction 2. Wind Speed 3. Ambient Temperature 4. Ambient Pressure 5. Solar Radiation 6. Relative Humidity 7. Rainfall MMS Shall Be Continuous On-Line Type. MMS shall allow monitoring, Logging of parameter Values, Archiving and Report Generation for Environmental Monitoring Authorities and Plant Management Personnel. MMS sensors shall also be provided with auto calibration system. MMS Shall be complete with all the Necessary Measuring Equipment and accessories and shall be Housed in a Walk-in shelter, Environmentally Conditioned (If Required For Measuring Equipment), Complete with Lighting and Convenience Receptacles. For this Purpose MMS equipment can Be Housed in One AAQMS Station Shelter. Alternatively, A Separate Shelter for housing MMS Equipment's shall be provided with all features as specified for AAQMS shelter. Telescopic crank-up meteorological tower with extended height 10 meters and retracted height 2 meters shall be provided for mounting of MMS sensors. Wind load limit shall be more than 8.5 sq. ft at 50 mph. The construction material of tower shall be heavy grade aluminium. Output Signal of All Meteorological Monitoring Analysers shall Be Connected to Plant DCS / DDCMIS for Monitoring, Archiving and Report Generation for Environmental Monitoring Authorities. Necessary Software for The Purpose Shall Be Loaded into DDCMIS.																																	
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company		LoRokf/kdkj ,oa xksuih; bl izys{k esa nh xbz lwpuh Hkkjr gsoh bysDV^dYl dh lEifRr gS bldk izR{k ,oa vizR{k :lk ls fdlh Hkh rjg izksx} tks rd dluh ds fgr esa gkfuIdjd																																	
gLR{kj ,oa fnukad SIGN & DATE	<table border="1"> <tr> <td></td> <td></td> <td></td> <td>uke NAME</td> <td>fnukad ,oa gLR{kj SIGNATURE & DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Pooran Kumar</td> </tr> <tr> <td></td> <td></td> <td></td> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td>lger foHkxx AGREED DEPTT.</td> <td>uke NAME</td> <td>fnukad ,oa gLR{kj DATE & SIGNATURE</td> <td>i:Zos(k.kdrkZ SUPERVISED BY</td> <td>R S Yadav</td> </tr> <tr> <td colspan="3">REV.NO.</td> <td colspan="2">00</td> </tr> <tr> <td colspan="3">Dt.</td> <td colspan="2">03.10.2018</td> </tr> </table>								uke NAME	fnukad ,oa gLR{kj SIGNATURE & DATE				fuekZ.kdrkZ PREPARED BY	Pooran Kumar				tkapdrkZ CHECKED BY	R S Yadav	lger foHkxx AGREED DEPTT.	uke NAME	fnukad ,oa gLR{kj DATE & SIGNATURE	i:Zos(k.kdrkZ SUPERVISED BY	R S Yadav	REV.NO.			00		Dt.			03.10.2018	
			uke NAME	fnukad ,oa gLR{kj SIGNATURE & DATE																															
			fuekZ.kdrkZ PREPARED BY	Pooran Kumar																															
			tkapdrkZ CHECKED BY	R S Yadav																															
lger foHkxx AGREED DEPTT.	uke NAME	fnukad ,oa gLR{kj DATE & SIGNATURE	i:Zos(k.kdrkZ SUPERVISED BY	R S Yadav																															
REV.NO.			00																																
Dt.			03.10.2018																																
Lkexzh lwph laj{k INVENTORY NO.	Lohd`fr APPROVED : Manish Sachan fuekZ.k PREPARED : Pooran Kumar T+kkjh ISSUED : R S Yadav fnukad DATE :																																		

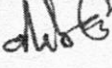
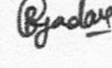
LoRokf/kdkj ,oa xksiuh;

fnukad ,oa gLRk{kj		उत्पाद क्रय विनिर्देश		PR00552																																		
		PRODUCT PURCHASE SPECIFICATION		पेज 3	का 3																																	
SUPERSEDES INVENTORY NO.	lkexzh lwph la{k dk	2.5 Solar Radiation Sensor (Solarimeter)																																				
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company		S. No	Features	Essential / Minimum Requirement																																		
		1	Type	Thermopile																																		
		2	Spectral Range	0.25-60 Micron																																		
		3	Measuring Range	0-1500 Watt/M2																																		
		4	Accuracy	+/- 3.5%																																		
		5	Accessories	Non Aspirated Radiation Shield																																		
		6	Operating temperature	0- 50° c																																		
2.6 Rain Gauge		S. No	Features	Essential / Minimum Requirement																																		
		1	Sensitivity	0. 5mm																																		
		2	Accuracy	+/-0.5-1%																																		
		3	Operating temperature	0- 50° c																																		
3.0 Quality Assurance: Calibration and Test certificate for the item should be supplied along with the equipment.		3.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications.																																				
		3.2. Guarantee: The equipment shall be guaranteed for a period of 24 months from the date of Dispatch.																																				
		<i>Failing to comply to the Guarantee clause the offer will be rejected straightway.</i>																																				
gLRk{kj ,oa SIGN & DATE	Lkexzh lwph la{k INVENTORY NO.				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:30%; text-align: center;"> uke NAME </td> <td style="width:40%; text-align: center;"> fnukad ,oa gLRk{kj SIGNATURE & DATE </td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td> fuekZ.kdrkZ PREPARED BY </td> <td> Pooran Kumar </td> </tr> <tr> <td></td> <td> tkapdrkZ CHECKED BY </td> <td> R S Yadav </td> </tr> <tr> <td> lger foHkxx AGREED DEPTT. </td> <td> uke NAME </td> <td> fnukad ,oa gLRk{kj DATE & SIGNATURE </td> </tr> <tr> <td></td> <td></td> <td> i;Zos{k.kdrkZ SUPERVISED BY </td> </tr> <tr> <td></td> <td></td> <td> R S Yadav </td> </tr> <tr> <td></td> <td colspan="2"> Lohd`fr APPROVED : Manish Sachan </td> </tr> <tr> <td> REV.NO. </td> <td> 00 </td> <td> fuekZ.k PREPARED : Pooran Kumar </td> </tr> <tr> <td> Dt. </td> <td> 03.10.2018 </td> <td> T+kkjh ISSUED : R S Yadav </td> </tr> <tr> <td></td> <td></td> <td> fnukad DATE : </td> </tr> </table>		uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE					fuekZ.kdrkZ PREPARED BY	Pooran Kumar		tkapdrkZ CHECKED BY	R S Yadav	lger foHkxx AGREED DEPTT.	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE			i;Zos{k.kdrkZ SUPERVISED BY			R S Yadav		Lohd`fr APPROVED : Manish Sachan		REV.NO.	00	fuekZ.k PREPARED : Pooran Kumar	Dt.	03.10.2018	T+kkjh ISSUED : R S Yadav			fnukad DATE :
	uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE																																				
	fuekZ.kdrkZ PREPARED BY	Pooran Kumar																																				
	tkapdrkZ CHECKED BY	R S Yadav																																				
lger foHkxx AGREED DEPTT.	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE																																				
		i;Zos{k.kdrkZ SUPERVISED BY																																				
		R S Yadav																																				
	Lohd`fr APPROVED : Manish Sachan																																					
REV.NO.	00	fuekZ.k PREPARED : Pooran Kumar																																				
Dt.	03.10.2018	T+kkjh ISSUED : R S Yadav																																				
		fnukad DATE :																																				

fnukad .oa gLRk(kj)		उत्पाद क्रय विनिर्देश		PR00553																																									
		PRODUCT PURCHASE SPECIFICATION		पेज	4 का 1																																								
				Page	1 of 4																																								
SUPERSEDES INVENTORY NO	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM - ANALYSER SHELTER																																												
lkexzh lwph lat'k dks	1.0 Application: Shelter to be provided for AAQMS station. 1.1 SHELTER SPECIFICATION : General requirement The analyser shelter shall be a completely assembled unit suitable for installation on a concrete pad or as a stand-alone unit. All internal piping and tubing shall terminate in bulkhead connections. Internal wiring will terminate in external junction boxes. All equipment including tubing, conduit fittings, junction boxes etc. shall be installed so as not to interface with the removal of analysers, sample handling systems and related equipment, accessibility for maintenance shall be the prime consideration. The minimum size of shelter shall be 3 x 4 mtr to accommodate the panels, work stations, tables, revolving tilting chairs, cupboard, UPS, battery etc. 1.2 Construction features a. The analyser shelter shall consist of a self-framing exterior skin assembled on a rigid primed and painted steel superstructure. All materials used in the construction shall be noncombustible. b. Wall panels design to be completely weather resistant. The design shall 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 shall be 2 mm thick SS sheets for external walls and 18 gauge galvanized steel for internal walls with ribbed interlocking. The ribbed interlocking shall 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 shall be insulated and designed for the given ambient conditions by glass rock wool approx. 100 mm insulation thickness. d. Roof panels design and construction to be completely weather resistant. The design shall 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 shall be constructed using ISMC (1501125) ISMB (100) welded property and adequately sized to ensure structural rigidity to prevent deformation during dragging, lifting, loading and unloading of the shelter.																																												
LoRoKf/kdkj ,oa xksiu; bl izysfk esa nh xbz lwpuK Hkkir gsoh bysIDVd'vI dh IEIfr gS bldk izR;k .oa vizR;k ik is fdih Hkh ng iz:ksx] fks fd dluuh ds fgr esa gkfudkj																																													
gnukad .oa SIGN & DATE	<table border="1"> <tr> <td colspan="2"></td> <td colspan="2">uke NAME</td> <td>fnukad .oa gLRk(kj) SIGNATURE & DATE</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">fuekZ.kdrkZ PREPARED BY</td> <td>Virendra Kumar</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">iZos(k.kdrkZ SUPERVISED BY</td> <td>R S Yadav</td> </tr> <tr> <td colspan="2"></td> <td colspan="3">Lohd'fr APPROVED : Manish Sachan</td> </tr> <tr> <td colspan="2">REV.NO.</td> <td>01</td> <td colspan="2">fuekZ.k PREPARED : Virendra Kumar</td> </tr> <tr> <td colspan="2">Dt.</td> <td>25.07.2019</td> <td colspan="2">T+kkjh ISSUED : R S Yadav</td> </tr> <tr> <td colspan="2"></td> <td></td> <td colspan="2">fnukad DATE : 25.07.2019</td> </tr> </table>							uke NAME		fnukad .oa gLRk(kj) SIGNATURE & DATE			fuekZ.kdrkZ PREPARED BY		Virendra Kumar			tkapdrkZ CHECKED BY		R S Yadav			iZos(k.kdrkZ SUPERVISED BY		R S Yadav			Lohd'fr APPROVED : Manish Sachan			REV.NO.		01	fuekZ.k PREPARED : Virendra Kumar		Dt.		25.07.2019	T+kkjh ISSUED : R S Yadav					fnukad DATE : 25.07.2019	
		uke NAME		fnukad .oa gLRk(kj) SIGNATURE & DATE																																									
		fuekZ.kdrkZ PREPARED BY		Virendra Kumar																																									
		tkapdrkZ CHECKED BY		R S Yadav																																									
		iZos(k.kdrkZ SUPERVISED BY		R S Yadav																																									
		Lohd'fr APPROVED : Manish Sachan																																											
REV.NO.		01	fuekZ.k PREPARED : Virendra Kumar																																										
Dt.		25.07.2019	T+kkjh ISSUED : R S Yadav																																										
			fnukad DATE : 25.07.2019																																										
lkexzh lwph lat'k INVENTORY NO.	lger foHkks AGREED DEPT.	uke NAME	fnukad .oa gLRk(kj) DATE & SIGNATURE																																										

frukad .oa glrk(kj) SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	PR00553			
SUPERSEDES INVENTORY NO lkexzh lwph la'k dks vfkdkZer djrk QS			पेज	4	का	2
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.		f. The roof panels shall be provided with 80mm thick rock wool insulation. g. All insulation materials are to be fire retarding. h. The analyser house shall have two doors, one as the main entrance and the other as the emergency of the shelter. i. The doors are to be mounted on special hinges to ensure gas tight construction of the shelter. j. Doors shall be sturdy, double walled, insulated with rock wool and open to the outside. Each door shall have a window with transparent toughened safety glass. k. The main entrance shall carry a plate indicating the plane area number and the tag-list of all the analysers inside the shelter. l. Analyser shelters met the standards of the unknown 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 m. All tubes and cable entries to the shelter shall be through multicable transit blocks - to ensure gas tightness of the shelter. n. The floor is to be fabricated with anti-slip sheet and sealed continuously to ensure no loss of pressure.	Page	2	of	4
LoRokf/kdkj .oa xksuih; bl izysfk esa nh xBZ lwph Hkkr gsoh bysifDVdYI dh IEIRr gS bldk rZr;k .oa vieR;k .lk ls fdLh Hkh rjg iz.kSj lks fd dLuh ds fgr esa gkfudkj		1.3 Painting 1. Preliminary cleaning involving removing of grease, oil, paint and dirt, which prevent pickling acid from coming in contact with the scale or mist. 2. Structural painting shall 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 shall 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. 3. Internal sheet metal: the internal walls shall be powder coated. 4. 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.				
glrk(kj) .oa frukad SIGN & DATE		1.4 Environmental conditioning Analyser shelters shall 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' industrial grade air conditioner (1 working & 1 standby) to be provided. Air conditioner shall be able to work continuously under ambient worst conditions. A 300 mm single phase (240 V AC) exhaust fan with safety grills & flap type louver shall be provided in the shelter. Hygrometer shall be provided to measure & display the humidity inside the shelter. Similarly thermostat shall be provided to measure & display the Temperature inside the shelter. All Air conditioner shall be 5 star rated.				
Lkexzh lwph la'k INVENTORY NO.	REV.NO.	01	fuekZ.kdrkZ PREPARED BY	Virendra Kumar		
			TkcapdrkZ CHECKED BY	R S Yadav		

fnukad .oa glrk(kj) SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	PR00553			
SUPERSEDES INVENTORY NO lkexzh lwph laj'k dks vfkdrZfer djrk QS			पेज	4	का	3
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.			Page	3	of	4
LoRokf/kdkj .oa xksiuH; bl izysf'k esa nh xbz lwpuK HkKjrk gsoH bysfdVdYI dh IEIRr gS bldk izR'k .oa vizR'k .k lks fdlh Hkh rfg iz ksj tks fd dluh ds fgr esa gkfudkj		1.5 Lighting a) Illumination level in the shelters will be at a minimum of 300 lux at 750mm elevation inside the shelter. Maintenance factor shall be 0.65. b) External dome type lighting shall be under the overhangs to provide sufficient illumination for maintenance work. c) Power switches for internal and external lighting will be provided near to the main entrance on the outside of the shelter. 1.6 Fire detection & protection: Necessary fire detection & protection measures for the analyzer shelter shall be provided as per regulatory requirement. 1.7 Power distribution board Power distribution board for distribution of UPS & 240 V AC power for all individual consumers as individual analyzers, auxiliary equipment inside and around the shelter, lighting receptacles shall be provided. Each of the main systems shall have an individual isolation circuit breaker mounted nest to the individual power users. 1.8 Telephone connection shall be provided for each AAQMS stations. 1.9 LAN connectivity: Redundant LAN connectivity shall be provided for each AAQMS station for data communication. 1.10 Rack Cabinet: Standard 19" rack cabinet made of heavy grade aluminium profiles with a facility of telescopic slides overload protection, power distribution box to accommodate "Monitoring analysers" should be provided. Provision of addition from additional analyser in future from measurement of other parameter of Ambient Air Quality.				
glrk(kj .oa fnukad SIGN & DATE						
Lkxexzh lwph la'k INVENTORY NO	REV.NO.	01	fuekZ kdrkZ PREPARED BY	Virendra Kumar		
			TkkapdrkZ CHECKED BY	R S Yadav		

fmkad .oa glrk(kj SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		PR00553 पेज 4 का 4 Page 4 of 4			
SUPERSEDES INVENTORY NO. lkexzh lwph laf.k dks vf/kdzfer djrk qS	1.11 Installation of AAQMS Shelter: Platform of suitable size and Height would also be required to be constructed by the Vendor. Shelters would also be required to be installed at suitable platform at site of each AAQMS Station as a part of scope of supply. 1.12 Earth Pit for AAQMS. The Supplier shall provide desired earth pit for AAQMS. 2.0 Quality Assurance: Test certificate for the item should be supplied along with the equipment. 2.1 The Vendor should give the Compliance sheet of the quoted items as per the specifications. 2.2. Guarantee: The equipment shall be warranty for a period of 24 months from the date of dispatch for the entire system. <i>Failing to comply to the Guarantee clause the offer will be rejected straightway.</i>						
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.							
LoRokf/kdkj ,oa xksj;uh; bl tzyf[k esa nh xbz lwpuuk Hkkrj gsoh bysDVdVY dh IEIRr gS bldk izR;k .oa vizR;k ik is fdlh Hkh rjg iz.kxsj lks fd daiuh ds fgr esa gktfudkj							
glrk(kj fmkad SIGN &							
Lkxexzh lwph laf.k INVENTORY NO.	REV.NO.	01	fuekZ.kdrkZ PREPARED BY	Virendra Kumar			
			TtkapdrkZ CHECKED BY	R S Yadav			

8

fnukad ,oa gLRk{kj		उत्पाद क्रय विनिर्देश		PR00168																																	
		PRODUCT PURCHASE SPECIFICATION		पेज	1 का 1																																
Supersedes INVENTORY NO.		CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM- MANDATORY SPARE																																			
lkezh lwph la{k dks		Mandatory spare for Ambient air quality monitoring System as per following:																																			
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	1. Electronic module/Mother board/Signal processing unit for AAQMS 2. Power supply module for AAQMS Analysers 3. UV lamp with adopter for SO2 analyser 4. Light source and detector unit for SPM and NOx / SOx analyser 5. Pump for SPM analyser 6. Conference hall mike & speaker.																																				
	LoRokf/kdkj ,oa xksiu;h; bl izys{k esa nh xbz lwpuK Hkkyr gsoh bystDV-dYI dh IEIRr gS bldk izR;{k ,oa vizR;{k :lk ls fdlh Hkh rjg iz;ksx] tks fd daiuh ds fgr esa gktudkj d																																				
	<table border="1"> <tr> <td>gLRk{kj ,oa fnukad</td> <td colspan="2"></td> <td>uke NAME</td> <td>fnukad ,oa gLRk{kj SIGNATURE & DATE</td> </tr> <tr> <td rowspan="4">Lkexzh lwph la{k INVENTORY NO.</td> <td></td> <td></td> <td>fuekZ.kdrkZ PREPARED BY</td> <td>Pooran Kumar</td> </tr> <tr> <td></td> <td></td> <td>tkapdrkZ CHECKED BY</td> <td>R S Yadav</td> </tr> <tr> <td>lger foHkkx AGREED DEPTT.</td> <td>uke NAME</td> <td>fnukad ,oa gLRk{kj DATE & SIGNATURE</td> <td>i;Zos{k.kdrkZ SUPERVISED BY</td> </tr> <tr> <td colspan="2"></td> <td>Lohd'fr APPROVED : Manish Sachan</td> <td></td> </tr> <tr> <td>REV.NO.</td> <td>00</td> <td></td> <td>fuekZ.k PREPARED : Pooran Kumar</td> <td>T+kkjh ISSUED : R S Yadav</td> </tr> <tr> <td>Dt.</td> <td>18.10.2018</td> <td></td> <td></td> <td>fnukad DATE : 1810.2018</td> </tr> </table>					gLRk{kj ,oa fnukad			uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE	Lkexzh lwph la{k INVENTORY NO.			fuekZ.kdrkZ PREPARED BY	Pooran Kumar			tkapdrkZ CHECKED BY	R S Yadav	lger foHkkx AGREED DEPTT.	uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE	i;Zos{k.kdrkZ SUPERVISED BY			Lohd'fr APPROVED : Manish Sachan		REV.NO.	00		fuekZ.k PREPARED : Pooran Kumar	T+kkjh ISSUED : R S Yadav	Dt.	18.10.2018			fnukad DATE : 1810.2018
	gLRk{kj ,oa fnukad			uke NAME	fnukad ,oa gLRk{kj SIGNATURE & DATE																																
	Lkexzh lwph la{k INVENTORY NO.			fuekZ.kdrkZ PREPARED BY	Pooran Kumar																																
				tkapdrkZ CHECKED BY	R S Yadav																																
lger foHkkx AGREED DEPTT.		uke NAME	fnukad ,oa gLRk{kj DATE & SIGNATURE	i;Zos{k.kdrkZ SUPERVISED BY																																	
		Lohd'fr APPROVED : Manish Sachan																																			
REV.NO.	00		fuekZ.k PREPARED : Pooran Kumar	T+kkjh ISSUED : R S Yadav																																	
Dt.	18.10.2018			fnukad DATE : 1810.2018																																	

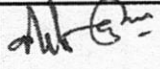
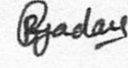
रिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		Annexure-1			
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ	5	का	1
समूची सूची संख्या को INVENTORY NO.	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM 1. AAQMS shall be provided to check upon the ambient air quality inside and around the power plant and capable of generating required reports for submission to relevant central & state regulatory agencies by owner. AAQMS's supplier shall have experience & PTR for installation, execution & commissioning of similar type of system in last 5 years in 2 nos. thermal power stations of capacity more than 250 MW. Ambient air quality shall be monitored for concentration levels of selected gaseous pollutants at different locations within the power station boundary and adjoining areas as per the ambient air quality monitoring guidelines of central and state regulatory agencies like MOEF, central and state pollution control boards (CPCB & SPCB) 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 and state pollution control boards (CPCB & SPCB) etc. or of US EPA in the absence of the same. It is the sole responsibility of the vendor to obtain the necessary approval. Owner has no liability towards the same. AAQMS shall include monitoring of the following pollutant gases/parameters. However, any other gases/parameters recommended by relevant central & state regulatory agencies during project implementation phase shall also be provided. Method of measurements & standards shall be as per CPCB and state pollution control boards (SPCBs) norms. There shall not be any cost implication for the same to owner. 1. Sulphur dioxide (SO₂) 2. Oxides of nitrogen (NO_x) 3. Carbon monoxide (CO) 4. Carbon Di-oxide (CO₂) 5. Suspended particulate matter (PM₁₀) 6. Suspended particulate matter (PM_{2.5})-respiratory 7. Ozone (O₃) - at one location only AAQMS for each plant location shall be fixed type, self-contained 'station'. Total four (4) nos such stations shall be provided at the min. one (1) no 'station' shall be located at the UP wind direction path. Balance three (3) no. 'stations' shall be located at different plant locations considering the factors like downwind direction, sensitive receptor, population etc. the exact location of the monitoring stations shall be decided in consultation with owner and regulatory agencies during project implementation phase. However, during the contract implementation stage, if additional number of such monitoring locations and hence AAQMS stations are required as per regulatory agencies requirement then the same shall be provided by the vendor at no extra cost. implication to owner.						
समूची सूची संख्या को INVENTORY NO.	समस्त विभाग AGREED DEPT.	नाम NAME	रिनांक एवं हस्ताक्षर DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	नाम NAME	रिनांक एवं हस्ताक्षर SIGNATURE & DATE	
REV.NO.	01		स्वीकृति APPROVED : Manish Sachan	निर्माण PREPARED : Virendra Kumar	नारी ISSUED : R S Yadav	रिनांक DATE : 29.07.2019	
DI.	29.07.2019						

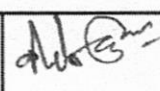
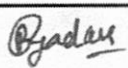
COPYRIGHT AND CONFIDENTIAL

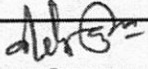
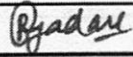
The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.

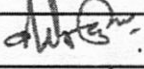
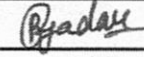
स्वाधिकार एवं गोपनीय

एल एच ई एल की संपत्ति है इसका प्रसार एवं प्रकाशन बिना लिखित अनुमति के किये जाने पर कानून के अंतर्गत दंडात्मक कार्यवाही की जा सकती है।

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		Annexure-1 पृष्ठ 5 का 2 Page 2 of 5			
SUPERSEDES INVENTORY NO. मसौदा सूची संख्या को अधिकृतित करता है	Ambient air quality monitoring for each plant location shall be suitable for continuous on line monitoring of different pollutant gases. AAQMS shall allow on line monitoring, on line logging of parameters values, on line archiving and on line report generation for environmental monitoring authorities (CPCB & TNPCCB) and plant management personnel. All required software & hardware shall be provided by bidder. 2. AAQMS system shall include the following a) AAQMS stations -4 Nos. b) Centralised AAQMS data acquisition system. c) AAQMS station shall include the following including individual analyser, accessories, calibration facility, mounting racks/cabinets, Furnitures and housing shelter, data acquisition system etc. but not limited to the same: i) Individual gas analysers for the parameters specified. ii) Necessary sampling systems for AAQMS analysers iii) Multi gas calibration system iv) Zero air generators. v) Hydrogen generator. vi) Calibration gas cylinders. vii) Mounting cabinet / rack for analysers and accessories viii) Housing shelter for AAQMS equipment – environmentally conditioned, walk-in Type Shelter complete with lighting and convenience receptacles. ix) UPS & lighting power supply complete with distribution facility. x) WORK STATIONS based data acquisition system for AAQMS station. xi) Furnitures 3. AAQMS Analyser Shelter (i) General requirement The analyser shelter shall be a completely assembled unit suitable for installation on a concrete pad or as a stand-alone unit. All internal piping and tubing shall terminate in bulkhead connections. Internal wiring will terminate in external junction boxes. All equipment including tubing, conduit fittings, junction boxes etc. shall be installed so as not to interface with the removal of analysers, sample handling systems and related equipment, accessibility for maintenance shall be the prime consideration. The minimum size of shelter shall be 3 x 4 mtr to accommodate the panels, work stations, tables, revolving tilting chairs, cupboard, UPS, battery etc (ii) Construction features a. The analyser shelter shall consist of a self-framing exterior skin assembled on a rigid primed and painted steel superstructure. All materials used in the construction shall be non-combustible.						
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electricals Limited It must not be used directly or indirectly in any way detrimental to the interest of the company							
स्वत्वधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की संपत्ति है इसका प्रसारण एवं उपयोग अन्य से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अधिकारक हो न किया जाए ।							
दिनांक एवं हस्ताक्षर SIGN & DATE							
INVENTORY NO. मसौदा सूची संख्या	REV.NO. 01 DATE : 29.07.2019	निर्माणकर्ता PREPARED BY Virendra Kumar जांचकर्ता CHECKED BY R S Yadav	Virendra Kumar R S Yadav	 			

निर्देशक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		Annexure-1			
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ	5	का	3
सुपरसेड्स INVENTORY NO	समय की सीमा अवधि			Page	3	of	5
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.							
स्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत भारी इलेक्ट्रिकल लिमिटेड की संपत्ति है। इसका प्रयोग एवं प्रसारण बिना लिखित अनुमति के किये जाने से कम्पनी के हित में स्वचालित रूप से रोक लगाई जाएगी।							
b. Wall panels design to be completely weather resistant. The design shall 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 shall be 2 mm thick SS sheets for external walls and 18 gauge galvanized steel for internal walls with ribbed interlocking. The ribbed interlocking shall 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 shall be insulated and designed for the given ambient conditions by glass rock wool approx. 100 mm insulation thickness. d. Roof panels design and construction to be completely weather resistant. The design shall 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 shall be constructed using ISMC (1501125) ISMB (100) welded property and adequately sized to ensure structural rigidity to prevent deformation during dragging, lifting, loading and unloading of the shelter. f. The roof panels shall be provided with 80mm thick rock wool insulation. g. All insulation materials are to be fire retarding. h. The analyser house shall have two doors, one as the main entrance and the other as the emergency of the shelter. i. The doors are to be mounted on special hinges to ensure gas tight construction of the shelter. j. Doors shall be sturdy, double walled, insulated with rock wool and open to the outside. Each door shall have a window with transparent toughened safety glass. k. The main entrance shall carry a plate indicating the plane area number and the tag-list of all the analysers inside the shelter. l. Analyser shelters met the standards of the unknown 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 m. All tubes and cable entries to the shelter shall be through multicable transit blocks – to ensure gas tightness of the shelter. n. The floor is to be fabricated with anti-slip sheet and sealed continuously to ensure no loss of pressure.							
निर्देशक एवं हस्ताक्षर SIGN & DATE	REV.NO.	01	निर्माणकर्ता PREPARED BY	Virendra Kumar			
	DATE : 29.07.2019	जाँचकर्ता CHECKED BY	R S Yadav				
समय की सीमा INVENTORY NO.							

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	Annexure-1			
SUPERSEDES INVENTORY NO. संपूर्ण सूची संख्या को अपडेट किया है			पृष्ठ Page	5 4	का of	4 5
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.		(iii) Painting 1. Preliminary cleaning involving removing of grease, oil, paint and dirt, which prevent pickling acid from coming in contact with the scale or mist. 2. Structural painting shall 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 shall take sufficient care of removing all the contaminants thus ensuring against premature and complete coating failure. Precautions to be taken to avoid air bubbles and uneven coat thickness. 3. Internal sheet metal: the internal walls shall be powder coated. 4. 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. (iv) Lighting a. Illumination level in the shelters will be at a minimum of 300 lux at 750mm elevation inside the shelter. Maintenance factor shall be 0.65 b. External dome type lighting shall be under the overhangs to provide sufficient illumination for maintenance work. c. Dual type Power switches for internal and external lighting will be provided near to the main entrance on the inside & outside of the shelter. (v) Fire Detection & Protection: Necessary fire detection & protection measures for the analyzer shelter shall be provided as per regulatory requirement. (vi) If UPS feeders cannot be provided for the AAQMS 'station' then UPS of suitable capacity with all accessories like battery and battery charger shall be provided. Battery shall be maintenance free type used & designed for ambient conditions. (vii) Power Distribution Board Power distribution board for distribution of UPS & 240 V AC power for all individual consumers as individual analyzers, auxiliary equipment inside and around the shelter, lighting receptacles shall be provided. Each of the main systems shall have an individual isolation circuit breaker mounted next to the individual power users. (viii) Telephone connection shall be provided for each AAQMS stations. (ix) LAN connectivity: Redundant LAN connectivity shall be provided for each AAQMS station for data communication.				
स्वीकृतिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की संपत्ति है इसका प्रसार एवं उपयोग के बिना या बिना की अनुमति के बिना न किया जाए।						
दिनांक एवं हस्ताक्षर SIGN & DATE						
संशोधन सूची संख्या INVENT	REV.NO. 01 DATE : 29.07.2019	निर्माणकर्ता PREPARED BY Virendra Kumar जांचकर्ता CHECKED BY R S Yadav	Virendra Kumar R S Yadav			

दस्तावेज का संकेत SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION	Annexure-1 पृष्ठ 5 का 5 Page 5 of 5			
SUPERSEDES INVENTORY NO. समूची सूची संख्या को अतिरिक्त करता है	viii) Central AAQMS Monitoring Monitoring and report generation of AAQMS for the whole power station shall be carried out through a centralised work stations based data acquisition system with coloured A4 sized LJP. For this purpose, all data from each AAQMS stations shall be collected in centralized AAQMS DAS monitoring system. Work Stations & printer. Central AAQMS shall also be connected to Plant DDCMIS & MIS server for monitoring thru bidirectional dual redundant OPC link. Necessary Software For The Purpose Shall Be Loaded Into DDCMIS.					
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bhamb Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company.	4. TNPCB is now insisting that all the Power plants should upload the environment parameters to TNPCB's web server. One no of work station with necessary software (as recommended by TNPCB) with modem & dedicated internet connection and necessary I/O cards to access the mA output from various analyzers, is to be supplied for uploading the parameters of CEMS & CAAQMS. (Minimum of 40 parameters are to be uploaded and actual no. will be discussed during detailed engineering). 5. Output Signal of All Meteorological Monitoring Analysers shall Be Connected to Plant DCS / DDCMIS For Monitoring, Archiving And Report Generation For Environmental Monitoring Authorities. Necessary Software For The Purpose Shall Be Loaded Into DDCMIS.					
स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत की इलेक्ट्रिकल की संपत्ति है इसका प्रयोग एवं प्रसारण अन्य किसी भी तरह प्रयोग, जो कि कंपनी के हित में अतिक्रमण न हो सके	6. General Terms & Conditions 6.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment including circuit diagram shall be supplied. 6.2 Installation and Commissioning: The supplier shall install & commission the equipment at site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. <i>Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.</i>					
दस्तावेज का संकेत SIGN & DATE	6.3 Guarantee/ Warranty: 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 commissioning, whichever is earlier. <i>Failing to comply to the Guarantee clause, the offer will be rejected straightaway.</i> 6.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water proof vibration packing box capable of bearing air and road transit hazards. 6.5 Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of Packing box.					
समूची सूची संख्या INVENT	REV.NO. 01 DATE : 29.07.2019	निर्माणकर्ता PREPARED BY Virendra Kumar जांचकर्ता CHECKED BY R S Yadav	Virendra Kumar R S Yadav	 		

ANNEXURE-III**Terms & Conditions of Reverse Auction**

Against this enquiry for the subject item with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder for any of the eligible items for which techno- commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.
12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction“, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action *as per extant BHEL guidelines*, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA.

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.	Confirmation to General Instructions and standard terms & conditions:	Please confirm each clause of following documents: - 1. General Instructions and standard terms & conditions for bidding against tender enquiry (GISTC, Rev. 02): 2. Special terms & conditions of tender enquiry (Annexure-IV). 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 sheet 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.	
2.	Special Instruction:	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.	Evaluation criteria	Evaluation will be done Project Wise considering all the items (i.e. taking all material codes together) on Total Landed Cost to BHEL upto project site. <i>Note: Vendors have to quote all the items indicated in enquiry failing which offer would not be considered.</i>	
4.	Basis of Quotation:	Confirm that prices have been quoted on FCA as well as CPT Mumbai basis. <i>Packing & Forwarding charges, if any, and Airfreight charges have to be quoted separately in the offer.</i>	
		Please note that BHEL reserves the right to place the order either on FCA or CPT basis. In case order is placed on CPT basis, Transportation from Port of Origin to Mumbai Airport shall be to your account.	
		Please mention the name of FCA dispatching Airport & Country.	
		Transit insurance would be arranged by BHEL. Please send your offer keeping this in view.	
		Confirm that prices to be quoted as per Price Format (Enclosed).	
5.	Delivery Period:	Material is required as per the schedule mentioned in the NIT. However, you are requested to offer your best possible delivery in number of weeks from the date of Purchase Order/document approval/QAP approval.	
6.	Technical Requirement:	Please quote your valuable offer as per as per BHEL Specification Nos. PR00541 (Rev. 01), PR00542 (Rev. 01), PR00543 (Rev. 01), PR00544 (Rev. 01), PR00545 (Rev. 01), PR00546 (Rev. 01), PR00547 (Rev. 01), PR00548 (Rev. 00), PR00549 (Rev. 00), PR00550 (Rev. 00), PR00551 (Rev. 00), PR00554 (Rev. 00), PR00552 (Rev. 00), PR00553 (Rev. 00), PR00168 (Rev. 00) and Annexure-1 (Rev. 01) (Enclosed as ANNEXURE-II).	
		<i>Vendors have to quote all the items indicated in enquiry failing which offer would not be considered.</i>	

		<i>Vendors have to cover all the points as given in 'Annexure-1' of BHEL Specification while quoting the offer.</i> Please ensure that documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.	
7.	Validity:	Confirm that your offer shall be valid for 180 days from the date of tender opening. BHEL will reserve the right to reject any or all quotations, quoting validity less than 180 days.	
8.	Firm & Fixed Prices:	Confirm that prices will remain firm and fixed during the entire validity and execution of the project.	
9.	MDCC (Material dispatch clearance certificate) Clause:	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 (Test Certificate, Calibration Certificate, Guarantee Certificate, Packing List etc.) to BHEL in 07 days advance for review and release of MDCC by BHEL before dispatch of the consignment.	
10.	O&M Manual:	O&M Manual of the equipment shall be provided as per BHEL Specification alongwith the equipment.	
11.	Quality Requirement & Inspection	Quality Assurance Plan (QAP) for each item of the AAQMS shall be submitted as per BHEL Specification alongwith your Part-1 (Techno-Commercial) offer for approval. BHEL/BHEL's Customer/Nominated third party inspection agency may inspect items as per approved QAP & BHEL Specification.	
12.	Installation & Commissioning Clause:	Installation & Commissioning of the equipment is required as per BHEL Specification at North Chennai & Ennore Projects site. <i>Kindly confirm that Lumpsum I&C charges for complete scope of work per Project (inclusive of everything i.e. To & Fro charges, local conveyance, lodging and boarding etc. and irrespective of no. of man-days) has been quoted separately in your offer.</i> The above charges for Installation & commissioning shall be considered during Price evaluation of each item.	
13.	Penalty (Late Delivery) Clause:	Kindly confirm that Penalty for late delivery w.r.t. contractual delivery shall be applicable at the rate of 0.5% of the total order value (lot-wise) per week of delay or part thereof subject to maximum of 10% of the total order value (lot-wise). Date of AWB (Airway Bill) shall be treated as delivery date for all purposes. <i>Loading for deviation in LD clause: In case of deviation in penalty clause, BHEL will evaluate your offer after loading on account of deviation in penalty. Loading will be done to the extent to which it is not agreed to by the bidder (at offered value).</i>	
14.	Guarantee Clause:	The equipment shall be guaranteed for a period of 36 months from the date of dispatch or 24 months from the date of Installation & Commissioning, whichever is later. 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.	

		<i>In case of deviation in Guarantee Period, offer will be evaluated with loading @ 4% per-annum (on pro-rata basis) of quoted material value.</i>									
15.	Packing and Dispatch	The equipment shall be packed and dispatched as BHEL Specification.									
16.	Origin of Quotation:	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.									
17.	Payment Terms:	Kindly confirm the following Payment terms: Material Portion: 100% payment after receipt of material at site against submission of PBG @ 10% of Order value valid till entire Guarantee period. PBG would be submitted before the negotiation of documents. The PBG acceptance/receipt certificate will form part of negotiable 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 www.bhelhwr.co.in . Installation & Commissioning Portion: 100% payment against receipt of work completion certificate/successful commissioning certificate, signed by BHEL representative at site.									
		The payment may be claimed thru bank (i.e. CAD) or directly to BHEL. In case of payment through bank, all bank charges shall be on either side i.e. your bank's charges shall be to your account and our bank's charges shall be to our account. In case documents are presented directly to our nominated Banks, bank charges shall be to your account.									
		In case Bidders insists Payment thru Letter of Credit, BHEL may agree for Un-Confirmed and Irrevocable Letter of Credit and will be opened 60 days prior to the scheduled delivery and will be valid for 90 days.									
		Loading for Deviation in Payment terms: BHEL reserves the right to load the offers of vendors for deviation in payment terms mentioned in the enquiry. Base rate of SBI (as on 31 st March 2019) + 6% per annum, shall be considered for loading for the period of relaxation sought by bidders. Loading would be done on basic cost of items, as per table given below: <table border="1"><thead><tr><th>Payment Terms</th><th>Days of Loading</th></tr></thead><tbody><tr><td>Against Delivery at BHEL Site (against Material Receipt Certificate) within 75 days of supply</td><td>No loading</td></tr><tr><td>Against documents through bank (CAD)</td><td>45</td></tr><tr><td>Letter of Credit (LC)</td><td>120</td></tr></tbody></table>	Payment Terms	Days of Loading	Against Delivery at BHEL Site (against Material Receipt Certificate) within 75 days of supply	No loading	Against documents through bank (CAD)	45	Letter of Credit (LC)	120	
		Payment Terms	Days of Loading								
Against Delivery at BHEL Site (against Material Receipt Certificate) within 75 days of supply	No loading										
Against documents through bank (CAD)	45										
Letter of Credit (LC)	120										
18.	Order Acceptance:	Ink signed order acceptance shall be furnished within 15 days of order placement. In case, order acceptance does not receive within 15 days of order placement, PO deemed to be accepted by you.									
19.	Deviation: (if any)	Kindly confirm that there is no deviation with respect to BHEL Specifications. However, If there is any deviation with respect to the tender documents then the same should be brought out specifically in separate annexure marked Deviations (Technical/Commercial).									
20.	Make In India preference	Please furnish the self-declaration certificate (enclosed with tender documents) under preference to 'MAKE IN INDIA' govt. notification.									

21.	Customer Approval	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. Following documents should be submitted along with your offer for taking up approval with the end Customer (after qualification of PQR and acceptance by BHEL): 1. Make of the equipment offered 2. Brief about the Vendor/Company/Organization 3. Financial data for last three years (Balance Sheet etc.) 4. List of Customer where similar item is supplied in last three years alongwith performance/Installation certificate.	
-----	--------------------------	--	--

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

1. **Copy / Replica of Price Bid (without prices) as per Price Format.**
2. **Catalog / Leaflet of the Equipment / Instrument.**
3. **Signed & Stamped copy (each page) of duly filled 'Annexure-IV' Special terms & conditions of Enquiry.**
4. **Signed & Stamped copy (each page) of GISTC, Rev. 02 as token of acceptance.**
5. **Signed & Stamped copy of duly filled certificate for "Make In India"**

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.	Confirmation to General Instructions and standard terms & conditions:	Please confirm each clause of following documents: - 1. General Instructions and standard terms & conditions for bidding against tender enquiry (GISTC, Rev. 02): 2. Special terms & conditions of tender enquiry (Annexure-V). 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 sheet 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.	
2.	Special Instruction:	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.	Evaluation criteria	Evaluation will be done Project Wise considering all the items (i.e. taking all material codes together) on Total Landed Cost to BHEL upto project site. Note: Vendors have to quote all the items indicated in enquiry failing which offer would not be considered.	
4.	Basis of Quotation:	Confirm that Prices have been quoted on <u>Ex-Works Freight pre-paid</u> basis upto destination (i.e. 660 MW Suratgarh (Rajasthan) TPS site). Packing & Forwarding charges, if any, as well as Freight charges, if any, have to be quoted separately in your offer. In case your offer is silent regarding these charges, same would be considered to be inclusive in offer.	
		<i>The goods must be dispatch through any BHEL approved transporters which are posted at our website www.bhelhwr.co.in. 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.	
		Confirm that prices to be quoted as per Price Format (Enclosed).	
5.	Delivery Period:	Material is required as per the schedule mentioned in the NIT. However, you are requested to offer your best possible delivery in number of weeks from the date of Purchase Order/document approval/QAP approval.	
6.	Technical Requirement:	Please quote your valuable offer as per as per BHEL Specification Nos. PR00541 (Rev. 01), PR00542 (Rev. 01), PR00543 (Rev. 01), PR00544 (Rev. 01), PR00545 (Rev. 01), PR00546 (Rev. 01), PR00547 (Rev. 01), PR00548 (Rev. 00), PR00549 (Rev. 00), PR00550 (Rev. 00), PR00551 (Rev. 00), PR00554 (Rev. 00), PR00552 (Rev. 00), PR00553 (Rev. 00), PR00168 (Rev. 00) and Annexure-1 (Rev. 01) (Enclosed as ANNEXURE-II).	

		<i>Vendors have to quote all the items indicated in enquiry failing which offer would not be considered.</i> <i>Vendors have to cover all the points as given in 'Annexure-1' of BHEL Specification while quoting the offer.</i> Please ensure that documents submitted with the offer/bid shall be signed and stamped in each page by authorized representative of the bidder.	
7.	Validity:	Confirm that your offer shall be valid for 180 days from the date of tender opening. BHEL will reserve the right to reject any or all quotations, quoting validity less than 180 days.	
8.	Firm & Fixed Prices:	Confirm that prices will remain firm and fixed during the entire validity and execution of the project.	
9.	MDCC (Material dispatch clearance certificate) Clause:	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 (Test Certificate, Calibration Certificate, Guarantee Certificate, Packing List etc.) to BHEL in 07 days advance for review and release of MDCC by BHEL before dispatch of the consignment.	
10.	O&M Manual:	O&M Manual of the equipment shall be provided as per BHEL Specification alongwith the equipment.	
11.	Quality Requirement & Inspection	Quality Assurance Plan (QAP) for each item of the AAQMS shall be submitted as per BHEL Specification alongwith your Part-1 (Techno-Commercial) offer for approval. BHEL/BHEL's Customer/Nominated third party inspection agency may inspect items as per approved QAP & BHEL Specification.	
12.	Installation & Commissioning Clause:	Installation & Commissioning of the equipment is required as per BHEL Specification at North Chennai & Ennore Projects site. <i>Kindly confirm that Lumpsum I&C charges for complete scope of work per Project (inclusive of everything i.e. To & Fro charges, local conveyance, lodging and boarding etc. and irrespective of no. of man-days) has been quoted separately in your offer.</i> The above charges for Installation & commissioning shall be considered during Price evaluation of each item.	
13.	Penalty (Late Delivery) Clause:	Kindly confirm that Penalty for late delivery w.r.t. contractual delivery shall be applicable at the rate of 0.5% of the total order value (lot-wise) per week of delay or part thereof subject to maximum of 10% of the total order value (lot-wise). Date of GR/LR shall be treated as delivery date for all purposes. <i>Loading for deviation in LD clause: In case of deviation in penalty clause, BHEL will evaluate your offer after loading on account of deviation in penalty. Loading will be done to the extent to which it is not agreed to by the bidder (at offered value).</i>	
14.	Guarantee Clause:	The equipment shall be guaranteed for a period of 36 months from the date of dispatch or 24 months from the date of Installation & Commissioning, whichever is later. 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. <i>In case of deviation in Guarantee Period, offer will be evaluated with loading @ 4% per-annum (on pro-rata basis) of quoted material value.</i>					
15.	Packing and Dispatch	The equipment shall be packed and dispatched as BHEL Specification.					
16.	Taxes & duties:	Details of applicable taxes & duties are to be mentioned as per clause 11 of General Instructions and Standards Terms & Conditions for bidding against tender enquiry (GISTC), Rev. 02. In this regard, following is to be specifically mentioned in the offer: a) GST Registration Number b) Address of Principal place of Business c) Type of Business d) HSN Code, its description & rate of applicable GST for the offered material e) Whether registered under Composite scheme of GST (Y/N). <i>It should be noted that the evaluation of the offers shall be done considering the taxation/benefits as applicable under GST.</i>					
17.	Payment Terms:	Kindly confirm the following Payment terms: Material Portion: 100% payment after receipt of material at site against submission of PBG @ 10% of Order value valid till entire Guarantee period. PBG would be submitted before the negotiation of documents. The PBG acceptance/receipt certificate will form part of negotiable 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 www.bhelhwr.co.in . Installation & Commissioning Portion: 100% payment against receipt of work completion certificate/successful commissioning certificate, signed by BHEL representative at site.					
		The payment may be claimed thru bank or directly to BHEL. In case of payment through bank, all bank charges shall be on either side i.e. your bank's charges shall be to your account and our bank's charges shall be to our account. In case documents are presented directly to our nominated Banks, bank charges shall be to your account.					
		Loading for Deviation in Payment terms (Indian Bidders): BHEL reserves the right to load the offers of vendors for deviation in payment terms mentioned in the enquiry. Base rate of SBI (as on 31 st March 2019) + 6% per annum, shall be considered for loading for the period of relaxation sought by bidders. Loading would be done on basic cost of items, as per table given below: <table><tr><th>Payment Terms</th><th>Days of Loading</th></tr><tr><td>Against Delivery at BHEL Site (against Material Receipt Certificate) within 75 days of supply</td><td>No Loading</td></tr><tr><td>Against documents through bank (CAD)</td><td>45</td></tr></table>	Payment Terms	Days of Loading	Against Delivery at BHEL Site (against Material Receipt Certificate) within 75 days of supply	No Loading	Against documents through bank (CAD)
Payment Terms	Days of Loading						
Against Delivery at BHEL Site (against Material Receipt Certificate) within 75 days of supply	No Loading						
Against documents through bank (CAD)	45						
18.	Order Acceptance:	Ink signed order acceptance shall be furnished within 15 days of order placement. In case, order acceptance does not receive within 15 days of order placement, PO deemed to be accepted by you.					
19.	Deviation: (if any)	Kindly confirm that there is no deviation with respect to BHEL Specifications. However, If there is any deviation with respect to the tender documents then the same should be brought out specifically in separate annexure marked Deviations (Technical/Commercial).					
20.	Make In India preference	Please furnish the self-declaration certificate (enclosed with tender documents) under preference to 'MAKE IN INDIA' govt. notification.					

21.	Customer Approval	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. Following documents should be submitted along with your offer for taking up approval with the end Customer (after qualification of PQR and acceptance by BHEL): 1. Make of the equipment offered 2. Brief about the Vendor/Company/Organization 3. Financial data for last three years (Balance Sheet etc.) 4. List of Customer where similar item is supplied in last three years alongwith performance/Installation certificate.	
-----	--------------------------	--	--

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

1. **Copy / Replica of Price Bid (without prices) as per Price Format..**
2. **Catalog / Leaflet of the Equipment / Instrument.**
3. **Signed & Stamped copy (each page) of duly filled 'Annexure-V' Special terms & conditions of Enquiry.**
4. **Signed & Stamped copy (each page) of GISTC, Rev. 02 as token of acceptance.**
5. **Signed & Stamped copy of duly filled certificate for "Make In India"**

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

Signature of supplier with Seal

1148
(9)

Suggestive Price Bid Format for NCTPS St-III(W.No-69031P87101)				
Tender Enquiry No. dt:.....				
Item No.	Item Description (BHEL) with Qty.	Name of the Vendor		
		Description of the Analyzer with Model No	Qty	Unit Price (Specify the Currency)
1	D55995241036	SO ₂ Analyser Model:	04 Nos.	
2	D55995241044	NO-NO ₂ -NO _x Analyser Model:	04 Nos.	
3	D55995241060	CO ₂ Analyser Model:	04 Nos.	
4	D55995241052	CO Analyser Model:	04 Nos.	
5	D55995241079	PM10 Analyser Model:	04 Nos.	
6	D55995241087	PM2.5 Analyser Model:	04 Nos.	
7	D55995241095	Ozone Analyser Model:	01 No.	
8	D55995241133	Multipoint, Multi-Gas Calibrator Model:	04 Nos.	
		Zero Air Generator, Model:	04 Nos.	
		SO ₂ Gas Cylinder with Regulator & Valve	04 Nos.	
		NO _x Gas Cylinder with Regulator & Valve	04 Nos.	
		CO Gas Cylinder with Regulator & Valve	04 Nos.	
		CO ₂ Gas Cylinder with Regulator & Valve	04 Nos.	
		Gas Sampling System	04 Nos.	
		Air Compressor	04 Nos.	
9	D55995241117	DAS+Wireless Connectivity	04 Nos.	
10	D55995241109	Central DAS with System	01 No.	
11	D55995241125	UPS - 5 KVA with 60 min battery backup	04 Nos.	
12	D55995241141	Analyzer Shelter, Size: 3m (L) x 3m (W) x 2.5m (H) with Panelling, Flooring, Door, Internal & External Lighting, Fire Extinguisher (2), CO detector, Hooter and 1.5 Ton Air Conditioner, a set of table and chair consisting of 02 nos of Executive revolving chair and 1 no Executive Table of 3 ft x 5 ft. Standard Double bay 19" Rack Cabinet.	04 Nos.	
13	D55995234072	MMS	01 No.	
14	D55995241150	Electronic Display	01 No.	
15	D55995241184	Mandatory Spares	01 Set	
Discount if any				
Installation & Commissioning and Training at site <i>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.</i>				

Note 1 : Packing, Forwarding, Freight, taxes and other duties have to be quoted seperately in price bid.

Note 2 : In any other component/system required for the operation of the quoted model is also requested to be indicative with price for the same.

Suggestive Price Bid Format for NCTPS St-III(W.No-69028A87101)

Tender Enquiry No. dt:.....

Item No.	Item Description (BHEL) with Qty.	Name of the Vendor		
		Description of the Analyzer with Model No	Qty	Unit Price (Specify the Currency)
1	D55995241036	SO ₂ Analyser Model:	04 Nos.	
2	D55995241044	NO-NO ₂ -NO _x Analyser Model:	04 Nos.	
3	D55995241060	CO ₂ Analyser Model:	04 Nos.	
4	D55995241052	CO Analyser Model:	04 Nos.	
5	D55995241079	PM10 Analyser Model:	04 Nos.	
6	D55995241095	Ozone Analyser Model:	01 No.	
7	D55995241133	Multipoint, Multi-Gas Calibrator Model:	04 Nos.	
		Zero Air Generator, Model:	04 Nos.	
		SO ₂ Gas Cylinder with Regulator & Valve	04 Nos.	
		NO _x Gas Cylinder with Regulator & Valve	04 Nos.	
		CO Gas Cylinder with Regulator & Valve	04 Nos.	
		CO ₂ Gas Cylinder with Regulator & Valve	04 Nos.	
		Gas Sampling System	04 Nos.	
		Air Gompessor	04 Nos.	
8	D55995241117	DAS+Wireless Connectivity	04 Nos.	
9	D55995241109	Central DAS with System	01 No.	
10	D55995241125	UPS - 5 KVA with 60 min battery backup	04 Nos.	
11	D55995241141	Analyzer Shelter, Size: 3m (L) x 3m (W) x 2.5m (H) with Panelling, Flooring, Door, Internal & External Lighting, Fire Extinguisher (2), CO detector, Hooter and 1.5 Ton Air Conditioner, a set of table and chair consisting of 02 nos of Executive revolving chair and 1 no Executive Table of 3 ft x 5 ft. Standard Double bay 19" Rack Cabinet.	04 Nos.	
12	D55995234072	MMS	01 No.	
13	D55995241150	Electronic Display	01 No.	
14	D55995241184	Mandatory Spares	01 Set	
Discount if any				
Installation & Commisioning and Training at site <i>Note : Construction (with material) of suitable plateform, earthpit, Installation & Commisioning of the system, Training to the Power Plant Staff at site will be vendor's scope completely.</i>				

Note 1 : Packing, Forwarding, Freight, taxes and other duties have to be quoted seperately in price bid.

Note 2 : In any other component/system required for the operation of the quoted model is also requested to be indicative with price for the same.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Foreign Bidders (Version April-2019,Rev: 04)

Table of Contents

1. GENERAL	1
2. ORIGIN OF QUOTATION.....	1
3. SUBMISSION OF TENDER	1
4. TENDER OPENING	2
5. SPECIFICATION, DRAWINGS & STANDARD	3
6. PRICE SCHEDULE	3
7. REVERSE AUCTION	4
8. DELIVERY TERMS.....	4
9. PENALTY FOR LATE DELIVERY	5
10. PAYMENT TERMS.....	6
11. BANK GUARANTEE	7
12. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.....	7
13. QUALITY REQUIREMENT	7
14. VALIDITY.....	7
15. RIGHT OF ACCEPTANCE	7
16. TRANSIT INSURANCE	8
17. PHYTOSANITARY CERTIFICATE.....	8
18. RISK PURCHASE.....	8
19. FORCE MAJEURE CLAUSE.....	8
20. NON-DISCLOSURE AGREEMENT	9
21. SETTLEMENT OF DISPUTES/ARBITRATION	9
22. INFORMATION TO THE BIDDERS	10
23. MAKE IN INDIA (GOVT-NOTIFICATION)	10
24. NOTE	11

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, 4th 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

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)
For Foreign Bidders (Version April-2019,Rev: 04)

- 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.
- e) 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.
- f) 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.
- g) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 5 Crore or more.
- h) In case of open tender, the unregistered bidder shall submit inter alia duly filled-in Supplier Registration Form (SRF) along with the bid. Bidders can download the SRF from www.bhel.com
- i) 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.
- j) 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.
- 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 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.

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 Foreign Bidders (Version April-2019,Rev: 04)

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.

- Bidders must give their detailed specification in the quotation along with relevant technical literature / catalogue etc. against the tender enquiry.
- 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.
- 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.
- All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of the company.

6. PRICE SCHEDULE.

- 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.
- 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.
- 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.

- 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.
- 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 ascertaining the landed cost to decide the comparative status of the prices.
- Basis of Evaluation for Bid / Quotation in foreign currency:**
 - Currency exchange rate (TT selling rates of SBI) for evaluation of the bid / quotation received in foreign currency will be as follows:
 - Single part bid – Date of tender opening.
 - Two / Three-part bid – Date of part 1 opening.
 - Reverse auction – Date of part-1 opening.

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

g) Evaluation of Indian Agents Commission:

- 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.
- 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

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 Foreign Bidders (Version April-2019,Rev: 04)**

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.

- a) BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after Techno-Commercial Evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides for RA. Detailed guidelines available at our site www.bhel.com
- b) In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-Submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

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).
- 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

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 Foreign Bidders (Version April-2019,Rev: 04)

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 and ppximx@bhel.in (in Case of Air shipments)

For latest updating please refer our web site:

www.bhelhwr.co.in

- 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.
- 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. PENALTY FOR LATE DELIVERY.

a) Where items of Purchase Order are independently usable.

Penalty 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.

Penalty 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

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 Foreign Bidders (Version April-2019,Rev: 04)

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 penalty, 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 penalty.”

“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 penalty”.

- 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 penalty purpose will be the Bill of Lading Date/Air way bill.

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.
- 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.		No Loading
Against Delivery at BHEL-Stores Haridwar.		45
Against documents through bank (CAD):		45
Letter of Credit (LC)		120
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	

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 Foreign Bidders (Version April-2019,Rev: 04)**

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. 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).

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.

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 Foreign Bidders (Version April-2019,Rev: 04)**

- 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 Penalty 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.

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:

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 Foreign Bidders (Version April-2019,Rev: 04)**

- 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.

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 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. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.

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

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 Foreign Bidders (Version April-2019,Rev: 04)

arbitrator shall be appointed in accordance with the Arbitration and Conciliation Act, 1996 of India.

JURIDICTION: 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 www.bhelhwr.co.in. 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 www.bhelhwr.co.in.
- 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.

23. MAKE IN INDIA (GOVT-NOTIFICATION).

- A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 28.05.2018 of government of INDIA. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.
- B. Default purchase preference shall be 20% to local suppliers with default minimum local content of 50% for all items / works / services unless any of the Nodal Ministry has prescribed, or prescribe in future lower or higher percentage of purchase preference and/or local content in respect of any items / works / services in which case the purchase preference and/ or local content for that

particular items / works / services shall be as prescribed by the Nodal Ministry.

- C. Vendor to specifically confirm if they are local supplier or not as per above mentioned notification. Accordingly, the local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

'Local Supplier' means a supplier or service provider whose product or service offered for procurement meets the minimum local content. 'Local Content' means the mount of value added in India, which shall, unless otherwise prescribed, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

- D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the 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 local suppliers in all procurements undertaken in the manner specified hereunder-
 - a) "In Procurement of Goods, Services or Works in respect of which the Nodal Ministry has communicated that there is sufficient local capacity and local competition, and where the estimated value of procurement is Rs. 50 lakhs or less, only local suppliers shall be eligible. If the estimated value of procurement of such goods or services or works is more than Rs. 50 lakhs, the provisions of below sub-paragraph b or c, as the case may be, shall be apply".
 - b) "In the procurements of goods or work which are not covered by above paragraph a and which are divisible in nature, the following procedure shall be followed";
 - i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract for full quantity will be awarded to L1.

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 Foreign Bidders (Version April-2019,Rev: 04)

- ii) If L1 bid is not from a local supplier, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the local suppliers will be invited to match the L1 price for the remaining 50% quantity subject to the local suppliers quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such local supplier subject to matching the L1 price. In case such lowest eligible local supplier fails to match the L1 price or accepts less than the offered quantity, the next higher local supplier within the margin of purchase preferences 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 local suppliers, then such balance quantity may also be ordered on the L1 bidder.
- c) "In procurements of goods or works not covered by subparagraph E.a) and which are not divisible and in procurement of services where the bid is evaluated on price alone, the following procedure shall be followed":-
- i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract will be awarded to L1
- ii) If L1 is not from a local supplier, the lowest bidder among the local suppliers will be invited to match the L1 price subject to local supplier's quoted price, falling within the margin of purchase preference, and the contract shall be awarded to such local supplier subject to matching the L1 price.
- iii) In case such lowest eligible local supplier fails to match the L1 price, the 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 local suppliers within the margin of purchase preference matches the L1 price, then the contract may be awarded to the L1 bidder.

F. "For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract / PO / WP against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable."

- 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 28.05.2018.
- H. "For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement (Preference to make in India), Order 2017 (revision) :-
- a. If L1 bid is not from 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 Local Supplier (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and 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 28.05.2018.

24. 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 supervision of business dealings, who either fail to perform or are in default without any

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 Foreign Bidders (Version April-2019,Rev: 04)

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(l) of the Employees Compensation Act, 1923."

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 April-2019, Rev: 04)

Table of Contents

1. GENERAL	1
2. ORIGIN OF QUOTATION	1
3. SUBMISSION OF TENDER	1
4. TENDER OPENING	2
5. SPECIFICATION, DRAWINGS & STANDARD	2
6. PRICE SCHEDULE	3
7. REVERSE AUCTION	3
8. DELIVERY TERMS	4
9. PENALTY FOR LATE DELIVERY	4
10. PAYMENT TERMS	4
11. TAXES & DUTIES	5
12. BANK GUARANTEE	6
13. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS	6
14. QUALITY REQUIREMENT	6
15. VALIDITY	6
16. RIGHT OF ACCEPTANCE	6
17. TRANSIT INSURANCE	7
18. RISK PURCHASE	7
19. FORCE MAJEURE CLAUSE	7
20. NON-DISCLOSURE AGREEMENT	8
21. SETTLEMENT OF DISPUTES / ARBITRATION	8
22. WHARFAGE / DEMURRAGE RESPONSIBILITY	8
23. CONDITIONS FOR AVAILING MICRO & SMALL ENTERPRISES (MSE'S) BENEFITS	8
24. INFORMATION TO THE BIDDERS	10
25. MAKE IN INDIA (GOVT-NOTIFICATION)	10
26. NOTE	11

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.

- 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 ROOM is located at: Room No. - 415, 4th Floor, Main Admin. Building, BHEL-HEEP, Haridwar.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

- 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.
- 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. 5 Crore or more.
- i) In case of open tender, the unregistered bidder shall submit inter alia duly filled-in Supplier Registration Form (SRF) along with the bid. Bidders can download the SRF from www.bhel.com
- 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 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.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

- 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 the company.

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.

NB: Financial evaluation of L1, L2Status will be on the basis of Landed Cost to BHEL.

7. REVERSE AUCTION.

- a) BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after Techno-Commercial Evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides for RA. Detailed guidelines available at our site www.bhel.com
- b) In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-Submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

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 April-2019, Rev: 04)

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%.

9. PENALTY FOR LATE DELIVERY.

a) Where items of Purchase Order are independently usable.

Penalty 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.

Penalty 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 penalty purpose.

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

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

**BHARAT HEAVY ELECTRICALS LIMITED**

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)**For Indian Bidders (Version April-2019, Rev: 04)**

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.

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.	No Loading
Against Delivery at BHEL-Stores Haridwar.	45
Against documents through bank (CAD):	45
Letter of Credit (LC)	120
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.

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 April-2019, Rev: 04)

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 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. 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.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

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 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 Penalty 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.

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.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

- 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.

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. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.

21.SETTLEMENT OF DISPUTES / ARBITRATION.

In all cases of dispute, the matter shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be Haridwar.

JURIDICITION: The courts of Haridwar, India, shall have exclusive jurisdiction.

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



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (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.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

15. If L1 bidder is MSE bidder, entire quantity will be given to such MSE bidder only.
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 www.bhelhwr.co.in 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 www.bhelhwr.co.in
- d) Copy of this Tender Enquiry is being sent through the post.

25. MAKE IN INDIA (GOVT-NOTIFICATION).

- A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 28.05.2018 of government of INDIA. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.
- B. Default purchase preference shall be 20% to local suppliers with default minimum local content of 50% for all items / works / services unless any of the Nodal Ministry has

prescribed, or prescribe in future lower or higher percentage of purchase preference and/or local content in respect of any items / works / services in which case the purchase preference and/ or local content for that particular items / works / services shall be as prescribed by the Nodal Ministry.

- C. Vendor to specifically confirm if they are local supplier or not as per above mentioned notification. Accordingly, the local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

'Local Supplier' means a supplier or service provider whose product or service offered for procurement meets the minimum local content. 'Local Content' means the mount of value added in India, which shall, unless otherwise prescribed, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

- D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the 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 local suppliers in all procurements undertaken in the manner specified hereunder-
 - a. "In Procurement of Goods, Services or Works in respect of which the Nodal Ministry has communicated that there is sufficient local capacity and local competition, and where the estimated value of procurement is Rs. 50 lakhs or less, only local suppliers shall be eligible. If the estimated value of procurement of such goods or services or works is more than Rs. 50 lakhs, the provisions of below sub-paragraph b or c, as the case may be, shall be apply".
 - b. "In the procurements of goods or work which are not covered by above paragraph a and which are divisible in nature, the following procedure shall be followed";
 - i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract for full quantity will be awarded to L1.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

- ii) If L1 bid is not from a local supplier, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the local suppliers will be invited to match the L1 price for the remaining 50% quantity subject to the local suppliers quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such local supplier subject to matching the L1 price. In case such lowest eligible local supplier fails to match the L1 price or accepts less than the offered quantity, the next higher local supplier within the margin of purchase preferences 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 local suppliers, then such balance quantity may also be ordered on the L1 bidder.
- c. "In procurements of goods or works not covered by sub-paragraph E.a) and which are not divisible and in procurement of services where the bid is evaluated on price alone, the following procedure shall be followed":-
- i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract will be awarded to L1
- ii) If L1 is not from a local supplier, the lowest bidder among the local suppliers will be invited to match the L1 price subject to local supplier's quoted price, falling within the margin of purchase preference, and the contract shall be awarded to such local supplier subject to matching the L1 price.
- iii) In case such lowest eligible local supplier fails to match the L1 price, the 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 local suppliers within the margin of purchase preference matches the L1 price, then the contract may be awarded to the L1 bidder.
- F. "For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract / PO / WP against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable."

- 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 28.05.2018
- H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement (Preference to make in India), Order 2017 (revision) :-
- a. If L1 bid is not from 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 Local Supplier (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and 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 28.05.2018.

26. 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 supervision 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



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version April-2019, Rev: 04)

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).

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."

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)

	Nationalised Banks		Nationalised Banks
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign banks
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		Private banks
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

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.

For & On behalf of the Principal

(Office Seal)

Place-----

Date-----

Witness:_____

(Name & Address) _____

For & On behalf of the Bidder/

Contractor

(Office Seal)

Witness:_____

(Name & Address) _____

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 Â _____(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