



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Page 1 of 4

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

CE: PR: 003- Rev 01

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SPECIAL COMMERCIAL CONDITIONS OF CONTRACT

Reference is brought to BHEL's Instructions to Bidders (Document Ref: CE: PR: 001- Rev 01) and General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 01).

These two documents along with Special Conditions of Contract annexed to this RFQ will form an integral part of the contract as and when the RFQ culminates into a Purchase Order / Contract.

RFQ No: MGR0000242

RFQ Date: 18/04/18 Due Date: 09/05/18, Extended to: 25/05/18

Customer/Project: NTPC/Telangana (2x800 MW) TPP & NTPC/Dadri-FGD Package (2x490 MW) TPP

Item Description: Dust Analysers-Extractive type

TYPE OF BID: ~~SINGLE PART BID / TWO PART BID /~~ THREE PART BID

Purchase Executives: Clarifications with regard to the tender shall be addressed to purchase officers whose e-mail IDs are given below:

mounishg@bhel.in or kanimozhid@bhel.in

Splitting of tendered quantity to MSE vendors: The tendered quantity ~~will~~ /will not be split to MSE vendor/s ~~subject to submission of relevant documents by vendors. Refer clause I of Instructions to Bidders for conditions applicable and for information on documents to be submitted.~~

Destination: a) For Indigenous scope of supply, items are to be directly despatched to corresponding BHEL' site office or Stores located at Ramagundam in Karimnagar Dist. of Telangana state and Dadri project site in Uttar Pradesh state respectively. Consignee details and Road Permit, if applicable, will be issued by BHEL along with Despatch Clearance.

b) For Imported scope of supply, destination is Bangalore port. In case of shipment by sea, port of discharge will be Chennai seaport and port of delivery shall be ICD, Bangalore.

Project Benefits:

Imported scope of supply:

- ~~DEEC / SEZ/EPCG/DFIA/ Physical Export contract: Eligible for "NIL" Basic Customs Duty.~~
- Project Imports: Supply of Main analysers for both projects are eligible for Concessional Basic Customs Duty. Merit Duty is applicable on Spares of both projects.
- ~~Basic Custom duty and Cess on Basic Custom duty are reimbursable by customer.~~

Terms of Delivery:

• **Indigenous scope of supply:**

Ex-works < station of dispatch > (including Packing & Forwarding charges but excluding Taxes & Duties).

• **Imported scope of supply:**

F.C.A. (for air consignments) < indicate international port of dispatch > / C.I.F. (for sea consignments) < ICD, Bangalore > (including Packing, Forwarding, Handling, Ancillary charges like processing of Sight Draft/ Letter of Credit, negotiation of bank documents, Export declaration, Country of Origin etc.).

Kindly indicate the approximate weight of the total imported consignment, which is required for calculating air-freight charges:

Under-mentioned details shall be provided against indigenous supplies and services:

a. GSTIN (no.) of place of supply: _____

b. HSN (Harmonized System of Nomenclature) code: _____

Applicable tax and Rate: _____ & _____

c. SAC (Service Accounting Code) no.: _____

Applicable tax and Rate: _____ & _____

d. GSTIN (no.) of place of supply of service: _____

I. Bidders to mandatorily provide confirmation/compliance for the under-mentioned terms:

SL NO.	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	REMARKS,if any
01	Reverse Auction	BHEL's decision for opting Reverse Auction or price-bid opening, will be intimated separately to qualified bidders after finalization of techno-commercial evaluation. In case BHEL does not resort to Reverse Auction, the price bids and price impacts (if any) shall be opened as per BHEL's standard practice. Note: Non-acceptance to participate in RA may result in non-consideration of the bid, in case BHEL decides to go for RA.	AGREE	
02	Parting of license for imported raw materials	In case of projects where Basic Custom Duty is NIL and vendor is importing any raw materials / components for the enquired item, same are eligible for Zero Customs duty. As per EXIM policy, BHEL will part the import licence with the vendors to obtain import licence by themselves and custom clear the raw materials/ components by availing zero customs duty. Hence, please furnish list of raw materials / components to be imported by you with Quantity and CIF value (for which BHEL has to share import licence). The benefit due to the above shall be passed on to BHEL and confirmed in the quotation. If there are no imported raw materials/components, same shall be confirmed in the offer.	AGREE CIF value Yes, benefit passed on to BHEL in the priced quotation. (or) We confirm that there are no imported components	
03	Delivery Period	a.For Main supply: Within <u>08</u> weeks from the date of issue of Manufacturing clearance along with approved document. b.For Mandatory Spares, Manufacturing Clearance will be issued after 01 year from the date of completion of main supplies. Delay in contractual delivery will attract Penalty as per GCC Clause no.:04.b.	AGREE weeks	
04	Terms of Payment at the time of material supply	Refer Clause "F" of Instructions to Bidder for BHEL standard Payment terms and loading factors applicable for non-compliance against payment terms: Indigenous Scope : a) Supply with Erection & Commissioning b) Supply with Erection Supervision & Commissioning c) Supply only Imported Scope : d) Supply with Erection & Commissioning e) Supply with Erection Supervision & Commissioning f) Supply only High-Sea sales : g) Supply with Erection & Commissioning h) Supply with Erection Supervision & Commissioning i) Supply only Spares & Consumables: c) and/or f)/i) depending upon the scope	AGREE	

II. Bidder to note that Deviations shall not be permitted for the below mentioned terms and are deemed to be complied. In case of non-compliance/deviation, offer shall be liable for rejection:

(1) **Submission of documents post PO viz., drawings /data sheet etc. as indicated in Cl: 04 of GCC:** Within 02 weeks from the date of receipt of Purchase Order. Delay in submission of complete set of specified documents in NIT, will attract Penalty as per GCC Clause no.:04.a.

(2) **Validity:** a. The offer (excluding those covered under b & c) will be valid for a period of 120 days from the date of part-I bid opening and in case of Negotiation/ Counter-offer/Reverse Auction, price validity will apply afresh for a period of 60 days from the date of according final price by bidder (or) up to original validity period, whichever is later.

b. Prices for AMC and Consumables of Dadri-FGD Package (2x490 MW) TPP should be valid up to expiry of Warranty period and order will be placed by BHEL before the validity expiry.

c. Unit-Price for Additional site visit man-day charges (Section-E,Sl.No.B.3 of specification) of Dadri-FGD Package (2x490 MW) TPP for attending emergency maintenance service as per Clause:1.14 of specification, should be valid up to expiry of AMC period. For the purpose of evaluation of the lowest bidder, BHEL will consider 02 additional man-days visit per year and evaluation will accordingly be done for the total AMC period of 10 years.

(3) **Warranty:** 24 months from the date of dispatch of goods or 18 months from the date of commissioning of goods, whichever is earlier. It shall be noted that Warranty is not applicable on Consumables of Dadri-FGD Package (2x490 MW) TPP.

(4) **Performance Bank Guarantee (PBG):** PBG will be applicable for a period of 24 months from the date of dispatch of goods + claim period of 03 months, for a value equal to 10% of the basic value of the purchase order. It shall be noted that PBG is not applicable on Consumables of Dadri-FGD Package (2x490 MW) TPP.

Refer Clause "H" of Instructions to Bidders. Also note that PBG should be in the format specified in Annexure VII of ITB and no deviation to this format will be allowed.

Note: In case PBG is not furnished, the 10% basic amount will be withheld from the supply invoice. This withheld amount will be paid either against submission of supplementary invoice & Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.

(5) **Despatch Documents:** Complete set of despatch documents (original + 1 photocopy set) as per Purchase Order shall be forwarded to Purchase Executive/BHEL directly. Depending upon the project/customer demands, despatch documents may include one or more documents from the following: Invoice (02 sets of original), Lorry Receipt (L/R), Packing List, Air Way Bill (AWB)/Bill Of Lading (BOL), Copy of High Sea Sales (HSS) agreement, Country of origin certificate, NIL Short Shipment Certificate, Original Performance Bank Guarantee (directly from issuing bank to BHEL), insurance intimation letter, POD (Proof of Delivery) on L/R.

The precise list of despatch documents needed for the project will be specified in the Purchase Order.

One set of Invoice, Packing List and L/R or AWB shall be e-mailed/faxed immediately to BHEL-EDN after despatch.

(6) **Freight Charges (for indigenous scope of supply):** Freight charges shall be to vendor's account. Against each project, vendor to quote lump sum reasonable Freight charges along with applicable tax, in priced offer.

(7) **Evaluation criteria for tendered item/s:**

(a) ~~Item-wise evaluation of tendered item.~~

(or)

(b) Evaluation of the lowest bidder will be done project-wise and separate purchase orders will be released on the finalized lowest bidder against each project.

~~(8) **Integrity Pact:** Execution of Integrity Pact is applicable for this tender (Refer clause "K" of Instructions to Bidders)~~

~~Details of IEM for this tender are mentioned below:~~

Name: _____ Address: _____ Email: _____

(9) A) Comprehensive Annual Maintenance Contract for NTPC/Telangana (2x800 MW) TPP :

CAMC will be applicable for a period of 04 years from the date of expiry of warranty period (or) from the date of completion of commissioning of equipment, whichever is later.

In case the quoted total AMC value is less than 20% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price and apportioning towards AMC charges. It shall also be noted that year-wise CAMC charges should be either uniform (or) in increasing trend.

Refer Sl. no. 'j' under Clause 'F' of Instructions to Bidder for Payment term of AMC.

B) Annual Maintenance Contract for Dadri-FGD Package (2x490 MW) TPP :

AMC will be applicable for a period of 10 years from the date of expiry of warranty period (or) from the date of completion of commissioning of equipment, whichever is later. It shall also be noted that BHEL can choose to short-close the AMC at the end of 05 years with notice period of 01 month.

In case the quoted total AMC value is less than 18% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price and apportioning towards AMC charges. It shall also be noted that year-wise AMC charges should be either uniform (or) in increasing trend.

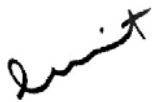
Refer Sl. no. 'j' under Clause 'F' of Instructions to Bidder for Payment term of AMC. Also note that Charges for Additional site visit, if applicable (as per Clause:1.14 of specification), will be paid in 15 days from the date of submission of supplementary invoice against documentary evidence like Site protocol/MOM etc., on yearly basis.

With this, we hereby confirm that all the terms & conditions as indicated in Instructions to Bidders (Document Ref: CE: PR: 001- Rev 01) & General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 01) are accepted without any deviation.

Vendor's Signature with Seal

Note B:

The above filled-in document shall be furnished as part of Techno-commercial Bid without fail.

			Ref : CE/416/DADRI/FGD/DA/PS		
			Rev. : 02		
			Page: 01 of 17		
		PROJECT : DADRI 2x490MW TPP – FGD SYSTEM CUSTOMER : NTPC			
COPY RIGHT 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.		PURCHASE SPECIFICATION FOR DUST ANALYSER			
		REVISIONS :	APPROVED BY  PUNIT P SINGH		
		PREPARED BY  PREETHAM V	ISSUED 416	DATE 17/05/2018	

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SECTION- A

GENERAL INSTRUCTIONS TO BIDDERS:

All required documents against this Tender/Specification shall be submitted in English only.

Introduction: Bidders are required to offer Dust Analyzer – Extractive Type to be used in FGD based Power Plant applications.

In order to accept the Technical offers / proposals from Bidders for the project mentioned in this Specification (refer Sections C & D), certain Pre-qualification criteria are required to be met by Bidder.

Pre-qualification requirements are clearly mentioned in AA of Section-B of this Specification. Bidder to read the same carefully and submit the details required for BHEL's acceptance.

In case Bidder does not include the details or meet the requirements of Pre-qualification requirements, their offer will be summarily rejected and Bidder's Technical offers will not be evaluated.

Evaluation methodology: BHEL shall initially open Bidder's PQR documents only as per Section-B of this specification for review & acceptance. Only after acceptance of PQR documents, BHEL shall open Bidder's technical offers for evaluation. Commercial bids of only accepted/approved Bidders by End users/Customers, shall be considered by BHEL for further processing.

Bidders are required to submit offers as detailed below:

- A. Documents pertaining to Pre-Qualification requirements for AA of Section-B along with point-wise compliance to be uploaded as Part-I Bid.
- B. Documents pertaining to Clause BB Section-B along with point-wise compliance to be uploaded in Part-I Bid, documents for this clause to be identifiable separately in the uploaded documents.
- C. Technical offers/proposals for the Project, whose requirements are mentioned in Sections C & D to be submitted along with point-wise compliance and uploaded as Part-II Bid.

Note 1:-Whenever required during evaluation of PQR and Technical offers/bids, vendor is required to be present at BHEL Electronic Division, Bangalore, for discussions. Further in the event of order, during approval of the Vendor documents by End users/Customers, Vendor shall accompany BHEL representative for discussions.

Note 2:- Deviations (if any) shall be discussed with only those vendors who quote for this tender.

SECTION- B

AA. Pre-Qualification Requirements (PQR) of Bidders for Dust Analyzer – Extractive Type:

1. The bidder should have executed/ completed work of “Design, supply, erection & commissioning of Dust Analyzer – Extractive Type and shall be in successful operation and working satisfactorily for at least one year in one station of power plant of unit rating 200MW or above as on the date of bid opening of this tender. Bidder means either OEM of analyzer or authorized representatives/ system integrators of analyzer OEM.
2. Original Equipment Manufacturers based outside India, who are making offer for this tender shall have authorized representatives in India for support related to Documentation, Erection, Commissioning & any other co-ordination work. This Authorization provided by OEM to representatives shall indicate the Type, Duration & Validity of the agreement. The Indian representative should have the team of experienced service engineers on payroll located at various parts of INDIA.
3. Submit Reference List of Projects wherein offered system is supplied & commissioned.
4. For Vendors offering upgraded/ latest models, PQR of equivalent previous models is acceptable subject to meeting PQR indicated in clause AA.1. OEM shall certify that offered model is upgraded version of previous model.
5. OEM shall furnish an undertaking that in case of change in Indian representative / agent, OEM shall continue to support supplies w.r.t to field service and supply of spare parts.
6. Bidder shall have optimum inventory of critical components like sensors/ electronic modules.
7. BHEL shall issue call for service / commissioning with 07 days’ notice. Bidder shall agree to visit BHEL project sites within above notice period.
8. BHEL shall submit the signed stamped copy of the Sub-Supplier Questionnaire along with vendor credentials to customer and await customer’s decision for a maximum of one month from the date of PQ bid opening. If approval is not received within above period, BHEL shall treat the offer as “NOT Meeting PQ” criteria and offer shall be rejected.

BB. Additional Documents to be submitted along with the documents related to PQR above for reference (OPTIONAL):

1. Technical literature / Manuals of offered Sensors/ System/ Accessories.
2. In the event of technical specification not indicated in Technical literature, confirmation from OEM is acceptable. Such confirmations shall be suitably supported by certificates like Type test/ Routine test certificates.
3. Submit Unpriced Purchase Order copies for executed projects in the past three years.
4. Submit List of Projects, for which Erection & Commissioning of the offered system has been carried out in the past three years. Also, submit reports of successful erection & commissioning Protocols & Minutes of the meetings for handing over of Dust Analyzer – Extractive Type for these projects.
5. Name & registered address of the Indian branch office or Indian representative for support of E&C and after sales service with Organization chart.
6. Bidder shall have facility in India for Engineering activities, preparation of Documents, trouble shooting and calibration of the system. Submit these details.
7. If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include Authorization letter from OEM for Design, Engineering, Manufacture, Testing, supply, Erection, Commissioning and Servicing of the offered System. This Authorization letter provided by OEM to Bidder shall indicate the Type and Duration of Validity of the agreement.

Important Note: In case Bidder does not submit details mentioned in above clauses (AA) or meet the requirements of Pre-qualification requirements (AA), Offers will be summarily rejected and Bidder's Technical offers/proposals will not be evaluated. Please read carefully the GENERAL INSTRUCTIONS in Section A of this specifications.

Note 3: A point-wise compliance to be submitted for SECTION-B along with all relevant documents and Sub-Supplier Questionnaire.

SECTION- C

PROJECT SCOPE OF SUPPLY

SUPPLY REQUIREMENTS:

Vendor shall quote unit prices for each of the items indicated below. Without this the offer shall be treated as incomplete and shall be rejected. BHEL reserves the right to choose options such as remote calibration, special tests separately for the project.

PROJECT REQUIREMENT:

NAME of Owner / End user: NTPC

Project: DADRI 2x490MW – 02 Nos.

SCOPE:

- Dust analyzer systems as per Specification CE/416/DADRI/FGD/DA/PS REV02. Quantity – 02 Nos. for the project. Unit rates to be provided for all the items in the offer. Typical instrument parameters for the project:

DESCRIPTION	MEDIUM	RANGE	PRESSURE	TEMPERATURE
CHIMNEY DUST ANALYSER	FLUE GAS	0-50/ 0-300 mg/Nm3	10 mmWC	60 Deg. C

- Spares for O&M of Dust Analyzer (01 Set common for both units)

SL NO.	DESCRIPTION	QUANTITY	REMARKS
1	Electronic Card Assemblies/ Display unit	Two nos. each type	
2	Light Source and detector	Two nos. each type	
3	Probe Assembly	Two nos. each type	
4	Air Filter & Blower Assembly along with hose & hose clamps	Two nos. each type	

- Erection and Commissioning for offered system
 - Supervision of Erection, Total Commissioning and Handing over of the offered system to Owner / End user.
- Annual Maintenance Contract (AMC) for 10 years for the project (common for 02 Units):
Quarterly one visit has to be done by the bidder. Bidder shall note that during each visit, cleaning, servicing, testing, checking and calibration of the entire system to be carried out. Bidder to quote for the same on yearly basis.

-
5. Bidder to offer unit rate on 'all inclusive basis' (Stay/ Travel) for the man-days for any additional site visit to meet the system requirement or any site repairs/ replacements as indicated in the clause no. 1.14 of the technical specifications.
 6. Bidder to consider all consumables/ calibration gases required for running the system for 10 years. These consumables to be supplied based on their shelf life or yearly whichever is applicable. Unit rates for each of the consumables to be provided.
 7. Specific Requirement: Vendors to quote/ confirm the following project specific requirements:
 - 7.1 Remote calibration to be offered. Cabling between Remote calibration unit & Dust analyzer at chimney will be in BHEL scope.
 - 7.2 Iso-kinetic sampling to be carried out for proving the system at site.
 - 7.3 Location of analyzer is at chimney approx. 90m elevation. Chimney Drawing attached for reference.
 - 7.4 Vendors to confirm project specific technical requirement as per CE/416/DADRI/FGD/DA/PS REV 02. Any deviation w.r.t this spec to be clearly indicated in the offer.

SECTION- D

TECHNICAL REQUIREMENT FOR DUST ANALYSER:

1. General requirements:

- 1.1. Output signals Analog : 4-20 mA DC isolated
- 1.2. Output signal Binary : 2NO+2NC for High alarm
- 1.3. Zero and span adjustment : To be provided with range selection facility
- 1.4. Ambient temperature : 50 Deg. Centigrade
- 1.5. Indication in Local Unit : Digital Alphanumeric Display. Display of reading in engineering units shall be provided.
- 1.6. Enclosure : Weather and dust proof (IP 55) Die cast Aluminum / SS
- 1.7. Type of Electronics : Microprocessor based with self-diagnostic.
- 1.8. Digital Signal Transmission : HART /RS 485 Port Modbus Protocol/ Ethernet TCP/IP protocol for communication of stack emission data to CEMS PC to be provided.
- 1.9. Calibration : Auto and Manual (from Remote)
- 1.10. Error Diagnostic : To be Provided
- 1.11. Compliance to standards : USEPA, TUV, MCERTS or equivalent standards.
- 1.12. Warranty: 2 years.
- 1.13. Annual Maintenance Contract (AMC) (common for 02 units): Shall be for a period of 10 years after expiry of warranty period (2 years). This shall cover total maintenance of all hardware related to the system. BHEL shall have the option to short close the AMC after the end of first five years with a notice period of one month. Bidder to provide year wise price break up for the same.
 - 1.13.1. Availability of valid data: At least 95% of time during warranty & AMC period and necessary steps to ensure availability shall be taken by the bidder.
 - 1.13.2. Quarterly one visit shall be made by the bidder. Bidder shall note that during each visit, cleaning, servicing, testing, checking and calibration of the entire system to be carried out. Further, Service reports, in mutually agreed format (check list), are to be furnished for having carried out the services / breakdown services. Service report shall be signed by bidder representative & BHEL representative at site.
 - 1.13.3. Hardware/ Software Replacement – as and when required from the available spares shall be done by the bidder within 72 hrs to ensure system availability for operation.
 - 1.13.4. Personnel deputed for service shall be covered under statutory provisions like insurance, provident fund etc. by bidder and Employer/ BHEL is not responsible for the above.
- 1.14. Emergency Maintenance Service – as and when required i.e. Bidder shall note that any fault shall be attended within 72 hours and furnish a service report for the same preferably on same day. Bidder to plan for any additional visits to site other than the quarterly visits mentioned in above clause no. 1.13.2 to meet the system requirement or any site repairs/ replacements

2. Technical requirements for DUST Analyzer:

- | | | |
|------|--|--|
| 2.1 | Type of instrument | : Extractive Type with Heated Sampling. |
| 2.2 | Principle of measurement | : Scattered Light |
| 2.3 | Measurement range | : 0-50/ 0-300 mg/Nm ³ selectable at any value in between. |
| 2.4 | Accuracy | : ± 2 % of lowest Measuring Range or better |
| 2.5 | Linearity | : ± 1 % of lowest Measuring Range or better. |
| 2.6 | Repeatability | : $\leq 1\%$ of lowest Measuring Range |
| 2.7 | Response time (up to 90% of full scale) | : ≤ 5 Sec. |
| 2.8 | Drift : | |
| | 2.8.1 Temperature Drift | : $< \pm 2$ % /10 Deg. C |
| | 2.8.2 Zero Drift | : $< 1\%$ lowest Measuring Range/week |
| | 2.8.3 Span Drift | : $< 1\%$ lowest Measuring Range /week |
| 2.9 | Operating range | : 0-300°C. |
| 2.10 | Filter | : to be provided |
| 2.11 | Accessories | : Purging system to be provided with heavy duty blowers along with all required accessories. |
| 2.12 | Compensation for Temp./ measurement | : Yes (Temperature measurement using thermocouple and transmitter with 4-20mA flue gas temp. signal to DDCMIS in addition to Dust Analyzer) |
| 2.13 | All interconnecting cabling between the accessories of the dust analyzer including cables up to JB to be provided by the bidder. | |
| 2.14 | Power supply (nominal) | : 240 V AC Single phase, 50 Hz. |
| 2.15 | Process flange | : As per suitable for 3" 150 #. Bidder to provide all required mounting accessories such as stub, mating flange on probe suiting the above along with Gaskets and Fasteners. |
| 2.16 | Chimney elevation | : at elevation 90m (Approx.) in the chimney. |

3. **Consumables:**

Bidder to offer all consumables/ calibration gases required for running the system for 10 years. These consumables to be supplied based on their shelf life or yearly whichever is applicable. Also, a list of all required consumables to be provided with the offer along with unit rates for each item.

NOTE 4: Bidder to note that all required consumables for the continuous operation for 10 years of the Dust analyser to be offered. In case if found that some consumables are not offered with this offer, the same to be supplied without any cost implication to BHEL.

4. **Remote Calibration:**

The analyzer shall have facility for Remote manual calibration, this shall be in addition to calibration facility available in local control unit. Vendor shall offer all required hardware and software for remote calibration along with necessary details. Typical location of this facility is in main equipment room of Unit Control room. If vendor proposes to use a PC based remote calibration system, a PC OEM manufacturer like HCL, HP, DELL, LENOVO or IBM shall be offered. Assembled PCs are not acceptable. Remote calibration

system shall be certified by manufacturer of analyzer for suitability of components and engineering.

Bidder shall furnish with the offer Clause-wise compliance / deviation list. This is mandatory for evaluating the offer.

5. Iso- Kinetic Sampling:

Iso-Kinetic Sampling shall be done at site for proving the offered system at site. Bidder is free to hire any agency from their end for this purpose.

6. Documents to be furnished, with the offer:-

5.1 Datasheets / Schematic and Probe assembly Drawings - 02 set

5.2 Technical Literature / Catalogs - 02 set

7. Documents to be furnished for Approval , in the event of order :-

6.1 Datasheets / Schematic and Probe assembly Drawings - 04 sets. Also a soft copy of all drawings shall also be furnished.

6.2 Technical Literature / Catalogs - 04 sets

8. Quality documents to be submitted for approval.

Test Certificates/ Reports and Calibration Reports, for approval, before dispatch of items.
The calibration reports shall correspond to range of the analyzer as per the instrument schedule.

9. O& M Manuals – 4 sets (2 Sets to BHEL-EDN Bangalore & 2 Sets to site with Consignment).

10. Erection and Commissioning requirement for offered System

10.1. Supervision of Erection, Total Commissioning and Handing over of the offered Dust Analyzer system to Owner / End user.

SECTION- E

A. Vendors to offer unit prices as per details below:

SL NO	Description	Unit	Quantity for DADRI	Unit Price (Rs.)	Total Price (Rs.)
1	DUST ANALYZER	Nos.	02		
2	Accessories for Dust analyzer like air blowers, hose pipe etc.	Set	02		
	Mounting Accessories with stub, counter flanges, mating flanges & fasteners				
	Remote Calibration Unit				
3	AMC for 10 years after completion of warranty period	Set	01		
4	Consumables for the Dust analyser for 10 years along with unit rates for each item.	Set	01		

B. Unit Rates to be offered as below:

SL NO	Description	Unit Rates
1	Cables of each type	
2	Consumables of each type	
3	Man-day Charges for site visit	

NOTE 5: - Unit rates of all items above to be quoted. These unit rates will be used for addition/deletion during execution.

C. Mandatory Spares as per details below:

SL NO.	DESCRIPTION	QUANTITY	Unit Price (Rs.)	Total Price (Rs.)
1	Electronic Card Assemblies	Two nos. each type		
2	Light Source Bulb	Two nos. each type		
3	Probe Assembly	Two nos. each type		
4	Air Filter & Blower Assembly along with hose & hose clamps	Two nos. each type		

NOTE 6: For Percentage calculation total quantity of the project to be considered. If exact items as indicated in the mandatory spares list are not available for the offered system, then functionally equivalent item shall be offered by the bidder. Unit prices offered will be used for any addition/deletion during execution.

SECTION- F

SUB-SUPPLIER QUESTIONNAIRE

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
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i.	Item/Scope of Sub-contracting			
ii.	Address of the registered office	Details of Contact Person (Name, Designation, Mobile, Email)		
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured	Details of Contact Person: (Name, Designation, Mobile, Email)		
iv.	Annual Production Capacity for proposed item/scope of sub-contracting			
v.	Annual production for last 3 years for proposed item/scope of sub-contracting			
vi.	Details of proposed works			
1.	Year of establishment of present works			
2.	Year of commencement of manufacturing at above works			
3.	Details of change in Works address in past (if any)			
4.	Total Area			
	Covered Area			
5.	Factory Registration Certificate	Details attached at Annexure – F2.1		
6.	Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design) Details attached at Annexure – F2.2 (if applicable)		
7.	Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)	Details attached at Annexure – F2.3		
8.	After sales service set up in India, in case of foreign sub-vendor (Location, Contact Person, Contact details etc.)	Applicable / Not applicable Details attached at Annexure – F2.4		
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any	Details attached at Annexure – F2.5		

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
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10.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing	Details attached at Annexure – F2.6												
11.	Manufacturing facilities (List of machines, special process facilities, material handling etc.)	Details attached at Annexure – F2.7												
12.	Testing facilities (List of testing equipment)	Details attached at Annexure – F2.8												
13.	If manufacturing process involves fabrication then- List of qualified Welders List of qualified NDT personnel with area of specialization	Applicable / Not applicable Details attached at Annexure – F2.9 (if applicable)												
14.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses	Applicable / Not applicable Details attached at Annexure. –F2.10 (if applicable)												
15.	Supply reference list including recent supplies	Details attached at Annexure – F2.11 (as per format given below)												
	<table border="1" style="width: 100%;"> <tr> <th style="width: 10%;">Project/ package</th> <th style="width: 10%;">Customer Name</th> <th style="width: 30%;">Supplied Item (Type/Rating/Model /Capacity/Size etc)</th> <th style="width: 20%;">PO ref no/date</th> <th style="width: 20%;">Supplied Quantity</th> <th style="width: 10%;">Date of Supply</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply							
Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply									
16.	Product satisfactory performance feedback letter/certificates/End User Feedback	Attached at annexure - F2.12												
17.	Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating) Note:- Reports need not to be submitted	Applicable / Not applicable Details attached at Annexure – F2.13 (if applicable)												
18.	Statutory / mandatory certification for the proposed product	Applicable / Not applicable Details attached at Annexure – F2.14 (if applicable)												
19.	Copy of ISO 9001 certificate (if available)	Attached at Annexure – F2.15												
20.	Product technical catalogues for proposed item (if available)	Details attached at Annexure – F2.16												
<table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">Name:</td> <td style="width: 30%;"> </td> <td style="width: 10%;">Desig:</td> <td style="width: 20%;"> </td> <td style="width: 10%;">Sign:</td> <td style="width: 15%;"> </td> <td style="width: 10%;">Date:</td> <td style="width: 10%;"> </td> </tr> </table>			Name:		Desig:		Sign:		Date:					
Name:		Desig:		Sign:		Date:								

Company's Seal/Stamp:-

SECTION- G

CHIMNEY DRAWING

