



Boiler Auxiliary Plant , Bharat Heavy Electricals
Limited , Ranipet Tamilnadu- 632406

Purchase Department

Enquiry No : BAP/PUR/EP/4230648E dt.05.08.2013

Item : CO Analyzer

Synopsis :

(i) Annexure-I

- (a) Part-A : Item description and quantity details
- (b) Part-B : General terms and conditions of enquiry
- (c) Part-C : Reverse Auction terms and conditions
- (d) Part-D : Cover Details
- (e) Part-E : Ref:ECI:R4E4&R4E5:CO:REV 00

(ii) Annexure-II : Supplier Registration Form (SRF)

(iii) Annexure-III : Commercial terms and conditions and MSME condition , CA certificate format.

Contact Details

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Sr.Manger/Purchase
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Phone : 04172- 284621
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Engineer / Purchase
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Annexure-I

Enquiry No : BAP/PUR/EP/ 4230648E dt.05.08.13

Part -A

Item description and quantity details

Sl No	Material Code , Description and specification	Unit	Quantity
01	Carbonmonoxide(CO) gas analyzer As per Ref:ECI:R4E4&R4E5:CO:REV 00	Set	02

Qualification criteria:

- 1. The vendors should have supplied and commissioned the same item of equivalent or above specifications to any customer and working well for the past one year. Necessary documents to be submitted along with the offer.**
- 2. Calibration certificate and O & M Manuals shall be supplied by the vendor.**

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Part- B

General Terms and Conditions

1. Tender shall be submitted in **two parts**. Part-1 shall consist of Technical and all commercial terms without price . Part-2 shall consist only price bid. Both bids shall be submitted in separate covers sealed and superscribing **Enquiry no , Due date and Technical Bid / Price Bid as shown in Part D**. Please submit SRF (Annexure-II) along with techno-commercial offer in a separate sealed cover. Please submit techno-commercial offer (including SRF) and price bid under one main cover as per format shown in Part D.
2. Techno- commercial bid will be opened first , evaluated and only then the price bids of qualified suppliers will be opened. This enquiry shall be subject to jurisdiction of the courts at Ranipet , Vellore District , Tamilnadu.
3. Any revised offer (s) sent by vendors on their own , after the tender opening will be treated as “Unsolicited Offer”. Such offers will not be considered and necessary action as deemed fit will be taken by BHEL on those vendors. Hence , competitive offer to be given in the original offer itself.
4. Tender should be sent in duplicate in a **sealed cover**. Inner cover sealed with tenderer’s distinctive seal and superscribed with correct **tender no , item of supply , due date of opening** and validity of offer addressed by designation to Manager/Purchase , Bharat Heavy Electricals Limited , Boiler Auxiliaries Plant , Indira Gandhi Complex , Ranipet , Vellore District-632406 , India.
5. Point wise confirmation required for material description , specification and quantity as indicated in part-A of Annexure-I.
6. Commercial terms and conditions Annexure-III is to be submitted along with technical offer. It should be filled in all respect.
7. Unpriced Bid (Price bid without price) is to be submitted along with techno-commercial offer.
8. Please submit your quotation so as to reach us on or before the due date by **2:00 PM**. Offer received after 2:00 PM at purchase department on the due date will be considered as late offer and may be liable for rejection. Quotations will be opened at **2:30 PM** at purchase department on the due date in presence of the tenderers who may like to be present.
9. **Authorization Letter** : Such of those tenderers who wish to participate in “tender opening” should attach an authorization letter which shall be duly signed and stamped in original , identifying the representative to be deputed for tender opening.
10. **All tenderers are requested to submit SRF “Supplier Registration Form (SRF)” as per Annexure-II along with “techno-commercial offer” for our records and further separate action.**

11. All tenderers are requested to submit the CA certificate indicating the present MSME status of their enterprise in the format attached (Annexure-III , Page: 04) along with techno-commercial offer. It is also requested to attach the SSI certificate along with CA certificate and submit along with techno-commercial offer.

Annexure-I

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Part-C

The tender will be processed through processed through “**Reverse Auction**” . Please refer below for terms and conditions of reverse auction .

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. 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.
3. BHEL will inform the vendor in writing, in case of reverse auction, the details of service provider to enable them to contact and get trained.
4. Business rules like event date, time, start price, bid decrement, extensions, etc. also will be communicated through service provider for compliance.
5. Vendors have to fax the compliance form in the prescribed format (provided by service provider) before start of Reverse auction. Without this the vendor will not be eligible to participate in the event.
6. BHEL will provide the rate schedule (e.g. EXCEL sheet) for the vendor to enable them to fill-in the price and keep it ready for keying in during the auction. In the event of discrepancy in rate and amount against any item of work, the least of the two will be taken for bid price. In case of discrepancy between the total price indicated in price bid and the arithmetic sum arrived based on rate quoted, then also the least of the two will be taken for the bid price. The bids are compared on the total price quoted and NOT on individual ITEM of works.
7. Reverse auction will be conducted on scheduled date & time.
8. At the end of reverse auction event, the lowest bidder value will be known on the network.
9. The lowest bidder has to fax the duly signed filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of auction without fail.
10. Opening bid in reverse Auction: The opening bid (in the reverse Auction) of the bidders shall be same as that quoted in their final sealed price submitted to BHEL(along with Technical offer). The bidder shall confirm in writing to BHEL that their opening bid (in reverse auction) shall be same as that quoted in their final sealed price bids submitted to BHEL against this NIT along with Technical Bid (Part-1).**If any bidder offered a unsolicited discount or rebate, in separate cover etc. in any place other than the sealed price bid, then the opening price bid in reverse auction, by such a bidder in Reverse Auction, shall be the**

price offered in final sealed price bid submitted (against this NIT) minus discount offered in any place other than the sealed price bid.

11. BHEL reserves the right to cancel Reverse Auction (RA) without assigning any reasons and resort to considering the sealed bids submitted by vendor for processing and finalizing the tender.
12. In case the process of reverse auction is found unsuccessful by BHEL, then BHEL at its discretion may decide to call the L1 bidder of reverse auction for further negotiation.
13. Any variation between the on-line bid value and signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
14. 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.
15. Only those vendors, who participate in the Online Initial Opening Bid, will be eligible to participate in the subsequent Online English Reverse Auction.
16. Price bids offered by the bidders during reverse auction process is considered as an offer to execute the work. Bids once made by a bidder cannot be cancelled/withdrawn and bidders shall be bound to execute the work at the final bid price. BHEL shall take appropriate action if the bidder fails to do so.
17. Cancellation of RA: Even where BHEL has specified Reverse Auction as the mode of competitive bidding in the tender enquiry, BHEL reserves the right to cancel the RA and go in for competitive sealed price bidding.
In that event, BHEL would intimate the acceptable offerors of the same in writing. The decision of BHEL to replace RA with competitive sealed bidding would be final and would be binding on all the technically qualified bidders. Such decision would be communicated to the technically successful bidders and BHEL is under no obligation to assign any reason for changing the mode of bidding from RA to sealed cover competitive bidding.
It shall be presumed that all bidders participating in this tender have read this condition and have accepted this, in submitting their offer.
Bidders would then given an opportunity to submit their reduction impact price bid if any, in sealed cover, which would be considered together with the price bids submitted along with the original/technical offer and other impact price bids if any arising out of changes in the technical scope. In case tenderers choose not to offer any reduction impact, then they would have to submit a statement to that effect, also in a sealed cover for opening along with price bid/s.

Annexure-I

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Part-D

Enquiry No :

dt.

Due dt:

Techno - Commercial Bid and Price Bid

Item : CO Analyzer

Kind Attn : Ms Arulselvi

To,

Manager /Purchase,

Bharat Heavy Electricals Limited,

Boiler Auxiliaries Plant,

Indira Gandhi Industrial Complex ,

Ranipet , Dist : Vellore , Tamilnadu

632406 , India.

From

“Vendor Address”

Enquiry No :

dt.

Due dt:

Techno – Commercial Bid

Item : CO Analyzer

To,

Manager /Purchase,

Bharat Heavy Electricals Limited,

Boiler Auxiliaries Plant,

Indira Gandhi Industrial Complex ,

Ranipet , Dist : Vellore , Tamilnadu

632406 , India.

From

“Vendor Address”

Enquiry No :

dt.

Due dt:

Price Bid

Item : CO Analyzer

To,

Manager /Purchase,

Bharat Heavy Electricals Limited,

Boiler Auxiliaries Plant,

Indira Gandhi Industrial Complex ,

Ranipet , Dist : Vellore , Tamilnadu

632406 , India.

From

“Vendor Address”

Enquiry No :

dt.

Due dt:

Supplier Registration Form (SRF)

Item : CO Analyzer

To,

Manager /Purchase,

Bharat Heavy Electricals Limited,

Boiler Auxiliaries Plant,

Indira Gandhi Industrial Complex ,

Ranipet , Dist : Vellore , Tamilnadu

632406 , India.

From

“Vendor Address”

Carbon Monoxide gas analyzer:

The system shall be complete with probes, pumps, central units, filter, analysis cabinet etc. the central unit of the analyzer shall be latest microprocessor based with digital display. The units of measurement shall be selectable in physical units, e.g.; ppm, vol % etc. suitable menu driven interface and keypad shall be provided.

1	Service	Waste gas from Sinter Plant
2	Type of Analyzer	Non dispersive infra red (NDIR) type
3	Process gas temp/Ambient temperature limit	140/60 °C
4	Relative humidity	Upto 95%
5	Measuring range	CO: 0-10,000 mg/m ³
6	Typical gas composition (%)	CO ₂ :NIL, O ₂ :17.4%;; SO ₂ -91 mg/m ³ NO _x -133 mg/m ³ , NO-132 mg/m ³ C _x H _y -1625 mg/m ³ dust etc.,
7	Process pressure	(-)900 mm WC
8	Design temperature	200
9	Duct size	4 x 4 mtr
10	Tapping point	½" NPT (F)
11	Mounting Location	As per site condition
12	Filter	Required
13	Filter material	Ceramic / Glass micro fibre / sintered steel
14	Sample cooler	Required
15	Max allowable distance between sampling point & electronics unit	500 mtrs
16	Accuracy, including linearity	±1% of FS or better
17	Response time(T90)	10 sec or better
18	Linearity	±1% of Span or better
19	Repeatability	±1% of Span or better
20	Drift	Min.(bidder to specify)
21	Output signal	4 to 20mA dc for the measuring range
22	Load	500 ohms
23	Indicator	Required; Digital (for measure value and self diagnostics)
24	Protection class	Electronic unit to be mounted in IP55 as per IS 13947 :1993 cabinet
25	Power supply	240V AC, single phase ,50 Hz
26	Electrical connections	Required
27	Mounting location	Field
28	Calibration facility	Automatic calibration & purging
29	Gas Conditioning	Required
30	Sample gas connection	¼" NPT
31	Purging gas connection	¼" NPT
32	Sampling system	Required with filter, cooler , flow monitor, etc.
33	Tubing material	Stainless steel
34	Span calibration gas cylinder	Required
35	Zero calibration gas cylinder	Required
36	Connection calibration gas	¼" OD