



Boiler Auxiliary Plant , Bharat Heavy Electricals Limited , RanipetTamilnadu- 632406

Purchase Department

Enquiry No : NIT No.32240 (1961784E) dt 07.04.2017

Item : Rust Preventive Fluid drying type

Contents:

Annexure-A

- (a) Technical Specifications and pre-qualification criteria

Annexure-B

- (a) General terms and conditions of enquiry
(b) MSME status
(c) Standard Terms and Conditions

Annexure-C

- (a) Commercial Terms and Conditions

Contact Details

Shri. Gnanasekaran M G
DGM/Purchase dept
BHEL, Ranipet – 632 406

E mail :
mggsekaran@bhelrpt.co.in
Phone : 04172 284388
Cell : 91-9487582648

Shri .C.Sudheesh
Sr Engineer / Purchase
Email : sudheesh@bhelrpt.co.in
Phone : 04172-283018
Fax : 04172-241131



NOTICE INVITING TENDER

Ref : NIT No.32240 (1961784E) dt 07.04.2017

The following items are required.

Technical Requirement for Vendors Supplying.

Sl No	Material Code	Description	Qty (in Ltrs)
1	IM1300100100	Rust Preventive Fluid For Collecting Electrode (Drying type) as per BHEL specification AQCS: RP: REV: 00 Dt 19. 07. 2014 SUPPLY SHALL BE IN 200 LTR BARREL	1,50,000

Tender may be submitted through <https://bheleps.buyjunction.in>

Note: All corrigenda, addenda, amendments, time extensions, clarifications etc., to the tender will be hosted on BHEL website (www. bhel.com) only. Bidder should regularly visit website www.bhel.com to keep themselves updated.

Since it is procured through two /Three stages, kindly arrange to quote for Ist Lot Qty of 50,000 Ltrs.

Supplier should submit supporting documents for Pre-qualification criteria

Pre-Qualification Criteria

- 1) Vendor / Supplier must have experience of 1 or 2 year in supplying the same /similar item. Kindly arrange to submit Previous Purchase order copies and manufacturing capacity
- 2) Test Certificate for the pervious supplied same /similar item to be submitted.
- 3) ITR / balance sheet for last two years required to analyze the financial status.
- 4) PAN Number and Sales tax registration copy required.

BHEL reserves the right to split the tendered quantity against each enquiry in the ratio of 70:30 among the L1 and L2 vendors respectively. The L1 rate will be counter offered to the L2 vendor and upon acceptance of the counter offer, PO will be placed on L2 vendor for 30% of the enquiry quantity. If L2 vendor does not accept counter offer, it will be counter offered to next higher bidders leaving out H1 bidder (i.e., H1 bidder will not be given any counter offer) and also if no one accepts the counter offer, the entire enquiry quantity will be ordered on the L1 vendor. Pl note that delivery should be staggered



as per our Enquiry. No advance delivery acceptable to us. BHEL may revise the Delivery Schedule / Qty depending up on production requirement and the vendor has to supply accordingly.

Modus operandi :

This is an Open tender floated for the Procurement of of Rust preventive Fluid drying type as per BHEL specification . The quantity mentioned in the tender is indicative and it may vary slightly depending upon our production schedule. As the of Rust preventive Fluid based on the petroleum product whose price fluctuates in the market over a period, it is proposed procure this qty in a phased manner i.e may be in 2 (or) 3 lots , through Reverse Auction/Sealed bid.

The tender will be floated in two part i.e Part-I will be the techno-Commercial offer and Part-II will be the price bid.

The **technical offer (Part-I)** consists of the following things.

- a) Technical offer meeting the relevant IS /BHEL specification
- b) MSME certificates (micro and small only) if applicable
- c) Unprised price format
- d) Filled SRF format along with relevant documents, if the supplier is not already registered with BHEL,Ranipet.
- e) Any other documents as called for in the tender (like documents required for pre-Qualification requirement, etc).

Part-II (Price Bid):

- f) Price Bid as per the BHEL format attached.
- g) The technical offer will be opened first and the same will be evaluated. **The accepted "Techno-Commercial" Offers are valid till the procurement of the entire tender quantity.** The Reverse Auction (RA) documents like EXCEL sheets,etc will remain the same for all the LOTs . Only the price alone will vary for each Lot. In order to quote a Firm Price for each lot, BHEL will communicate the Firm Quantity before the RA. Once the rate is finalized in the RA, the rate will remain FIRM till the entire PO quantity is supplied. Thus Bidder will submit a separate price bid alone, for each RA (for definite enquiry quantity).

Manager / Purchase

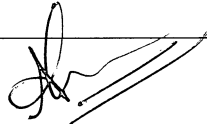
 Ranipet	Rust Preventive Fluid Specification (Drying Type)	TEP	AQCS:RP:
		Rev	00
		Date	19-07-2014

1.0 Scope: This specification covers the requirement of temporary rust preventive fluid (drying type) for collecting electrode of ESP by dipping process.

2.0 Application: Mild steel sheets of IS 513 Gr DD are being rolled to a specific configuration in an automated line and packed in a steel crate. These collecting electrodes are used as anode in a Electrostatic Precipitator. These collecting electrodes are erected inside the ESP Chamber and till it is erected, the surfaces of collecting electrodes are to be protected from corrosion, erosion, rusting, pitting etc. Hence the packed collecting electrode bundles are dipped in a rust preventive fluid of drying type tank before dispatch to various sites which includes coastal sites like Vizag, North Chennai etc.

3.0 Functional Specification of the RP fluid:

SL. No	Details	Acceptance Norms
01	Specific Gravity @ 27 deg C	0.85 to 0.95
02	Flash point °C (Min.)	50°C
03	Viscosity Ford Cup@ 27 deg C	32 to 45 Seconds
04	Odour	The fluid shall be fit for usage by dipping process in confined atmosphere inside the production shop. It shall not give any Pungent smell while dipping process.
05	Melting Point of the dry film on steel sheet	Should not be greater than 90°C.
06	Appearance	Black
07	Coverage Area (Square meter/Litre)	50 to 65 (for Specific Gravity =0.85 and for DFT 15 -20 microns)
08	Salt Spray Test	The film shall withstand corrosive atmosphere in a salt spray chamber after exposure to 100 hours. (As per ASTM-B-117 mentioned in IS 1154: 2000 or any equivalent standard)
09	Humidity Test	The film shall withstand corrosive atmosphere in a humid chamber after exposure to 360 hours. (As per IS 1154: 2000 or any equivalent standard)
10	Drying time (Max.)	2 to 4 hours The film should not be sticky after 30 minutes.
11	Dry Film Thickness(DFT) required	15 to 20 Microns

 Adarsh Verma/Product Engineer/AQCS Prepared	 C. Ganesh/Senior Manager/AQCS Approved
---	--

 बी एच ई एल BHEL Ranipet	Rust Preventive Fluid Specification (Drying Type)	TEP	AQCS:RP:
		Rev	00
		Date	19-07-2014

4.0 Design Requirement:

4.1 The offered RP fluid should spread over the mild steel sheets uniformly when the bundles are dipped in a RP fluid tank.

4.2 Dry film thickness (DFT) should be uniform throughout the surfaces of the collecting electrodes after dipping.

4.3 The offered rust preventive fluid shall protect the collecting electrode surfaces for a minimum period of not less than 12 months from the day of dipping by retaining their corrosion resistance properties.

4.4 The offered RP fluid should also be easily removable when the same is exposed to flue gas of temperature of 90 Deg to 160 Deg C.

4.5 The offered RP fluid will be checked for viscosity using ford cup 4 at regular intervals (every first usage of the day) to maintain within 32 to 45 seconds and record. If the viscosity of rust preventive fluid does not falls in the above mentioned range suitable thinner may be added to maintain the same. **Detailed quantity of THINNER addition for the offered RP fluid to ensure the DFT over the collecting electrode surfaces to be furnished by the vendor.**

5.0 Inspection & Testing:

5.1 The offered RP fluid will be checked for above Tests at vendor works for every Lot of supply and will be witnessed by BHEL or BHEL approved Inspection agency.

5.2 Each RP fluid barrel should contain the following data:

a. Batch Number b. Date of Manufacturing c. Quantity and net/gross weight d. Safety & Storage instructions e. Best before use date

6.0 Documents to be furnished along with offer:

6.1 Vendor should furnish the Material Safety Data Sheet (MSDS) for the RP fluid along with the offer. Otherwise the offer will not be evaluated.

7.0 Packing & Despatch:

7.1 The offered RP Fluid should be supplied in a barrel of 200 Liters capacity.

7.2 The Barrel should be identified with MSDS data for reference and use.

 Adarsh Verma/Product Engineer/AQCS	 C. Ganesh/Senior Manager/AQCS
Prepared	Approved