



Annexure A

NOTICE INVITING TENDER

Ref : NIT No. 29189 (1960521E) dt 01.09.2016

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.

Manager / Purchase

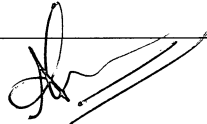
 Ranipet	Rust Preventive Fluid Specification (Drying Type)	TEP	AQCS:RP:
		Rev	00
		Date	19-07-2014

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
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 बी एच ई एल BHEL Ranipet	Rust Preventive Fluid Specification (Drying Type)	TEP	AQCS:RP:
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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

Bharat Heavy Electricals Limited
Boiler Auxiliaries Plant
Ranipet-6

PRODUCTION DEPARTMENT

BAP:P:WTC:RP:CE:OT:PQR

Dated 27 08 2016

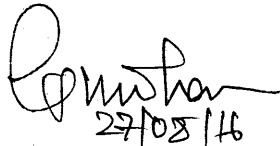
To

DGM/PUR/UTY

Sub: Prequalification Requirement for RP Oil for CE – Open Tender – reg

The following are the prequalification criteria for procuring RP Oil for CE through Open Tender.

1. Vendor / supplier must be a manufacturer for Rust Preventive Oil / Fluid (Drying Type) as per specification TEP:AQCS:RP Rev:00 dated 19 07 2014. Vendor must possess required facilities and capacity for the manufacture and supply of the above oil. A confirmation of the above by the vendor indicating their details of facilities / capabilities with supporting write up / catalogues is to be provided.
2. Vendor must have 3 to 4 years experience in this field of Manufacturing and supplied in this field
3. The vendor has to provide Purchase Order copies as a proof for the supply of Rust Preventive Oil / Fluid or similar product
4. Technical specification of the product supplied and copies of test certificates from vendor's own lab (or) NABL approved lab for the referred customer supplies (at least for 3 purchase orders) shall be furnished.
5. Income Tax Compliance / Clearance Certificate for 2 years.


27/08/16

DGM/PRODN F3/WTC/ADMIN


SR ENGINEER/WTC/PRODN