

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

SPECIFICATION NO	SP/MISC/7813
ITEM NO	SP/MISC/1/7/7813
QUANTITY/AREA	975 SQ MTR
LOCATION	BAY-9

SPECIFICATION CUM COMPLIANCE OF DIELECTRIC INSULATION EPOXY COATING ON STEEL FLOOR , Area -975 Sq. Mtr., Thickness of 1.1mm,

- NOTE :**
- VENDOR must submit complete information against clause No. 8.0 (Qualifying condition). The offer meeting this clause would only be processed.
 - The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the VENDOR and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.
 - The offer and all documents enclosed with offer should be in English language only.

SCOPE :

Dielectric Insulation Epoxy Coating on Steel Floor , Area -975 Sq. Mtr., Thickness of 1.1mm,

Dielectric Insulation Epoxy Coating on Steel Floor , Area -975 Sq. Mtr.		VENDOR TO CONFIRM / SPECIFY	OFFERED	DEVIATION
1.0	REQUIREMENT	VENDOR TO CONFIRM		
1.1	Dielectric Insulation Epoxy Coating on Steel Floor ,Thickness of 1.1mm, Area -975 Sq. Mtr. for movement of aero caster(material supply and coating on steel flooring).			
2.0	SCOPE OF SUPPLY	VENDOR TO CONFIRM		
2.1	Supply of material required for Dielectric Insulation Epoxy Coating on Steel Floor, Area -975 Sq. Mtr.			
3.0	SCOPE OF WORK	VENDOR TO CONFIRM		
3.1	applying di-electric insulation Epoxy coating of over all minimum dry film thickness of 1.1mm over Mild Steel flooring.. The process and specification of material shall be- 1-Surface preparation using abrasive wheel/grinder. 2- Application of the first coat of high performance primer having a. Minimum adhesive tensile shear strength of 125 kg/sqcm. b. Cured hardness (Shore D) of minimum 80 as per ASTM D2240. 3- Application of high build, high breakdown voltage solvent free, dielectric epoxy flooring (Only two component without aggregate) having a. Breakdown Voltage in Air for a system of minimum 1.1 mm shall be more than 20 KV. b. AC Proof Voltage for 1.1 mm thickness shall be minimum 10 KV for 3 minute in air. c. Insulation resistance for 1.1 mm thickness at 500 V shall be more than 1000 Mega Ohm. d. Pull of Adhesion on MS Surface of minimum 800 PSI as per ASTM D4541. e. Tensile strength (ASTM D638) of minimum 4000 PSI. f. Tensile elongation of more than 2 %. g. Abrasion resistance (ASTM D4060 CS17 Wheel/1Kg load) having loss of not more than 50 mg per 1000 cycles. h. Scratch Hardness as per BS 3900 E-2 of minimum 4 Kg. i. Shore D Hardness of minimum 70 as per ASTM D2240. The top coat shall be blue in colour, matching to our existing floor colour.			
3.2	Details of di-electric insulation epoxy material- Make, Type,OEM details ETC.	VENDOR TO SPECIFY		
3.3	Mixing ratio of components	VENDOR TO SPECIFY		
3.4	Product data sheet in details	VENDOR TO SUBMIT		
4	DOCUMENTS following documents are required along with the offer to meet the scope of work	VENDOR TO SUBMIT		
4.1	Point No.3.1---- 2-a &b (scope of work) Material manufacturing test certificate	VENDOR TO SUBMIT		
4.2	Point No.3.1---- 3-a,b & c (scope of work) Certificate should be approved by ERDA/CPRI or their approved lab	VENDOR TO SUBMIT		
4.3	Point No. 3.1----3- d,e,f,g,h&l (scope of work)----- Manufacturing Test Certificate	VENDOR TO SUBMIT		
4.4	Material safety data sheet (MSDS)			
5	TESTING & PROVING AT SITE	VENDOR TO CONFIRM		
5.1	Point No. 3.1---- 3d -Pull of Adhesion on MS Surface--on site testing by vendor (Suitable instrument to be arranged by the vendor)	VENDOR TO CONFIRM		
5.2	Point No. 3.1---- 3-a &c-- on site testing by vendor (Instrument /Equipment will be provided by BHEL). Test to be carried at 10 different points on the floor after application of paint & drying out.	VENDOR TO CONFIRM		
5.3	Coating thickness of 1.1 MM -- on site testing by vendor.			
6.0	ERECTION & COMMISSIONING.	VENDOR TO CONFIRM		
6.1	Supplier to take full responsibility for carrying out the work with his own labour, tools and other necessary equipments required to carry out all above activities.	VENDOR TO NOTE		
6.2	Electric power supply, Air & water shall be provided by BHEL at only one point, to be indicated by Supplier.			
6.3	Testing & Proving of executed work will be the part of erection & commissioning.			
7.0	GUARANTEE	VENDOR TO CONFIRM		
7.1	The complete work (work manship & material quality) shall be guaranteed for the period of 12 months from the date of work completion.			

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REQUIREMENT	VENDOR TO CONFIRM / SPECIFY	OFFERED	DEVIATION
8.0 GENERAL			
8.1 Supplier can visit the site before submitting the offer	VENDOR TO NOTE		
8.2 Supplier shall demonstrate the sample piece/test peice of approx 0.5 sq meter size at site for approval , after the approval vendor may start the work .	VENDOR TO CONFIRM		
8.3 Work should be completed within 06 months subjected to availability of site and relevant call to execute the work, from the date of final purchase order including supply of material and execution of work.	VENDOR TO CONFIRM		
8.4 Work may be offered in maximum five phases depend on availability of site.	VENDOR TO CONFIRM		
9.0 QUALIFYING CONDITION			
9.1 A. Only authorised agents/distributer/dealer/ manufacturer (certificate required) those VENDOR, having the experience of same type of work (Insulation coating on metal surface) and executed min. 500 Sq. Mtr. area in last three year from the date of opening of tender should quote. (P.O./work order(with material) in favour of manufacturer or vendor or any other authorised dealer of same manufacturer may also consider) B. Following documents required with offer (i) P.O./work order Copy of above work. (ii) Work completion report of above work must be submitted with the offer. This is required from all vendors for qualifications of their offers.	VENDOR TO SUBMIT		
10.0 BHEL reserves the right to verify information submitted by VENDOR. In case the information is found to be false/ incorrect, the offer shall be rejected..	VENDOR TO CONFIRM		

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