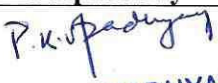




BHARAT HEAVY ELECTRICALS LTD. BHOPAL**QND DPTT****ANNEXURE 01 FOR PI NO. 631310005****TECHNICAL AND DELIVERY SPECIFICATION – D P CHEMICALS :NUCLEAR PURPOSE**

1. The Liquid Penetrant, Cleaner Solvent and the Developer shall belong to the same family of product and produced by the same manufacturer. Evaluation of lowest bidder shall be done for all the 3 items together.
2. When tested on the TAM panel all 5 star cracks shall be clearly be visible . The test shall be performed randomly on 1 set of DP chemicals (dye, developer and cleaner) upon receipt of the item lot at BHEL Bhopal and entire lot shall be rejected if the DP chemicals fail in the above test. Same test shall be conducted on sample received along with technical bid and appearance of all the 5 star cracks shall be the qualifying criteria.
3. The chemicals shall have a shelf life of 5 years from the date of dispatch.
4. The Liquid Penetrant Chemicals shall meet the requirements of ASTM/DIN/ISO standards. Samples shall be tested on receipt and non conforming samples would lead to rejection of entire supply lot.
5. The aerosol can spray for developer shall be even and without droplet formation or clogging upon spraying. Droplet formation upon spraying or clogging shall lead to rejection of entire supply lot.
6. The liquid Penetrant shall be easily removable with the solvent .
7. The Chemicals shall be free from pungent odour .
8. Dye penetrant and cleaner solvent shall be supplied in leak proof containers of 01 liter capacity .
9. Developer shall be supplied in aerosol spray cans having net volume of approximately 400 ml per can. Net weight/volume of each developer can shall be at least 80% of its gross weight/volume.
10. Each items shall be packed in leak proof and safe packing to avoid damage in transit/storage .
11. The Chemicals shall be Approved by NPCIL. Valid NPCIL approval shall be available on date of technical bid opening. Vendor shall also ensure availability of NPCIL approval during the shelf life of the DP chemicals supplied to BHEL.
12. Test certificate & Material Safety Data Sheet shall be provided along with the supply.
13. Valid NPCIL approval certificate and MSDS must be supplied along with quotation.

Prepared by	Checked by	Approved by
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