

BHARAT HEAVY ELECTRICALS LTD. BHOPAL**QUALITY CONTROL - QND****TECHNICAL AND DELIVERY SPECIFICATION FOR MPI CHEMICALS (Indent No.- 631390003)**

- 1.0 Water based Black MPI Powder, White Contrast Paint & Fluorescent MPI powder/ink shall be evaluated individually for evaluation of lowest bid.
- 2.0 Evaluation of MPI sensitivity shall be done on flawed specimens/known defects.
- 3.0 The chemicals shall have a shelf life of minimum 5 years from the date of manufacturing but the date of supply shall be within 03 month from the date of manufacturing.
- 4.0 The Magnetic Particle Testing Chemicals shall meet the requirements of latest version of ASTM E 709.
- 5.0 The Chemicals shall be free from pungent odour .
- 6.0 Settling volume as per ASTM E 709 : 0.1 to 0.4 ml in 100 ml bath sample for fluorescent particles and 1.2 to 2.4 ml in 100 mm bath sample for visible particles. Samples not achieving the recommended settling volume when used as per manufacturer prescribed particle concentration (in grams per litre) shall be summarily rejected. lowest cost shall be evaluated on the basis of actual particle concentration required to achieve median value of the settling volume .
- 7.0 Each items shall be packed in leak proof and safe packing to avoid transit damage .
- 8.0 Test certificate & Material Safety Data Sheet shall be provided along with the supply.
- 9.0 Material sample are to be submitted along with quotation. The samples not meeting the tender specifications during test at BHEL Bhopal would not be considered for evaluation of price bids.
- 10.0 Samples would be taken from actual supply and tested at BHEL Bhopal before acceptance of the supply lot.
- 11.0 Lowest prices of White Contrast Paint shall be evaluated on the basis of area coverage per unit weight.

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