

**BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**

SPECIFICATION NO :

ITEM NO. :

LOCATION : TOOL AND GAUGE DIVISION

**SPECIFICATION FOR 1 NO. QTY**

**Environment Friendly Fume Extractor**

**1. Requirement :-** The ESP based environment friendly fume extractor is required to arrest vapours of grinding oil and prevent atmosphere from grinding oil mist on 14/A/2046 Hofler Gear teeth grinding M/C.

**2. Specification :-** In this CNC teeth grinding machine 2000 CFM fume generates continuously. This machine runs on 3 shift basis round the year for teeth grinding of Traction gear and pinions. The unit should be capable of running continuously on 24 hrs x 7 days basis. It should suck the fumes and leave only cleaned air into the atmosphere. The filtration efficiency should be more than 99% and it should be capable to filter suspended particulate of size 0.1 microns. The system should have proper oil drainage arrangement. Indication for faulty operation should be provided.

The machine should have excellent performance with high efficiency and long life. Machine should be proved during commissioning by supplier at BHEL Bhopal.

**3. Scope of Supply :-** The machine should meet our specification as per pt 2. The machine should be supplied with all necessary and standard Accessories. 4 Sets of operations, and maintenance manual in English with detailed diagram should be provided. Installation, commissioning, training and proving of machine at BHEL Bhopal should be done. The machine is to be guaranteed in respect of efficiency, design, material, manufacturing defect for a period of 24 months from the date of acceptance of machine. Four copies of guarantee certificates are to be supplied along with the machine. Free after sales services should be ensured and provided during guarantee period.

Quoted eqpt. Should be proven eqpt, And suppliers should furnish list of customers where quoted eqpt. Has been supplied earlier with necessary certificate for good performance and after sales service. Quoted eqpt. Should be working satisfactorily atleast 1 year with some reputed customers.

**5. Electricals :-**

The eqpt. Should be suitable for  $415 \pm 10\%$  volts, 3 – phase, 3 – wire,  $50 \pm 3\%$  Hz, AC supply, no Neutral will be provided. All the electrical eqpts should be suitably tropicallised to ambient temperature  $50^{\circ}\text{C}$  max. and relative humidity 98% max. Earthing to be done by supplier as per norms.

**6. EVALUATION CRITERIA AND QUALIFYING REQUIREMENT**

Equipment should meet all our above specifications and general clauses enclosed and bidders must furnish point to point replies against all the points of our above specifications and general clauses enclosed, failing which their offer may not be considered.