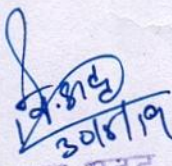


ANNEXURE – I

SEWER SUCTION MACHINE WITH SPECIFICATION AS FOLLOWS:-

- 1) **Tank:** - Capacity 5000 liters, cylindrical tank shell with torrispherical dished ends, made from 5mm thick ms plates and having arrangement of employing by tipping through a discharge door and heaving a level side glass. The tank shall be suitably painted in sides and outside to prevent chemical action and corrosion. Adequate safety device to protect the vacuum pump from damaged by the sludge to be provided.
- 2) **Drive system:** - High-pressure suction pump to be driven by power take off (P.T.O.) unit located in tractor. The output from the P.T.O unit to be connected through an auxiliary propeller shaft to the exhaustor compressor.
- 3) **Suction (vacuum) pump):-** Suction pump shall be of reputed make and shall be capable of creating max vacuum 80-95% and emptying the chamber from depth of approximately 8 meters. The vacuum pump will be provided with injection air cooling system and automatic lubricating oil pump.
- 4) **Suction house and hose connections:-** One length of 100mm dia hoses of 15 meters shall be supply with end fittings for suction applications. During operations, these hoses made of heavy-duty PVC material cab be coupled together to the appropriate length desired for the application and can be attached to suction drain valve. The other end will be inserted inside the end application point for sucking out the sludge.
- 5) **Chassis:** - this shall be made out of channel of 150x75mm. Drawbar-channel: 100x50 mm and towing bar shall be of made 150x75mmx6mm double channel arrangement including towing hook of 45mm round blacksmith processed shall be used. Revolving arrangement with pin of 35mm dia with tubular bushes shall be provided. Leaf spring 50x8mm, 75mm long with 13 pieces with hold shall be provided.
- 6) **Tyre:-** rim with wheel drum of 7-50-16 including ball bearing, nut bolts of size to hub mounted with two nos. Pneumatic tires tube flaps etc. Standard make shall be fixed.
- 7) **Tank painting:-** internally the tank shall be coated with one coat of primer and three coats of corrosion resistant epoxy paint. Outer surface to be painted with synthetic enamel paint of approved colour & write up of choice of BHEL.
- 8) **Compound gauge:-** 100 mm dia, range 0 to 4kg./cm² shall be provided.


विकास मंदट
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