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| **PRE-QUALIFICATION CRITERIA**  **Essential Facilities required for manufacturing of**   |  |  | | --- | --- | | **Name of Item & Item Code** | **Essential Facilities required for manufacturing of casting through Vacuum Lost Foam castings(VLFS) Process** | | CRADLE DRG NO. 188.94.082, As per Annexure E  **Item Code :** 6120100271 | **A. Essential Manufacturing Facility: -**  **Name of Machine & instruments(Capacity/Size)**  1.EPS Moulding machine with PLC control (Bed Size- 1200X1000 MM & 1400X 1200 MM)  2.Pre Expander machine(100 kg/hour)  3.CNC glue machine (Bed Size-1110x830 MM)  4.CNC Foam Cutting machine(2000 x 1500 MM)  5.Vacuum Pump(700 MM Hg Minimum)  6.Sand Cooling System(10 Ton /Hr. Minimum)  7.Sand Show ring System(10 Ton /Hr. Minimum)  8.Knockout System(1 Ton/Hr. Minimum)  9.Boiler(2 Ton Minimum)  10.Coating Mixing Tank(2 Ton Minimum)  11.Slurry Mixer  12.Letter Printing Machine  13.Heat Treatment Furnace electrically PLC based with quenching arrangement & Graph Print out  14.Hot Room For Mold drying  15.Induction Furnace(1 Ton Minimum)  **B. Manufacturing Process:** Casting should be made through vacuum Lost Foam castings Process.  **C. Testing Facilities:** Firm must have all desirable testing Facilities for testing of castings as per OFM specification/Annexure. |   **Note: -** The facilities indicated above are bare essential, better facility configurations are also recommended. |