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| **PRE-QUALIFICATION CRITERIA****Essential Facilities required for manufacturing of**

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| **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 Mixer12.Letter Printing Machine13.Heat Treatment Furnace electrically PLC based with quenching arrangement & Graph Print out14.Hot Room For Mold drying15.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. |