

Annexure – 'D'

**TECHNICAL DETAILS OF HMT MAKE LATHE, SBCNC-55 (PLAN NO.1-228, BLOCK-1)**

<b>S. N.</b>	<b>DESCRIPTION</b>
1.1	X and Z axes rapid feed: 5000 mm/min Cutting Feed: 1-5000mm/min
1.2	Spindle speed: Infinitely variable from 12 - 2800rpm
1.3	No. of speed ranges: 3 steps (Automatic change)
1.4	ATC: 12 station Turret type.
1.5	CNC controller: Hinerik 3100T
1.6	PLC: Simatic S5 150U, 128 Inputs and 64 Outputs in use
1.7	X & Z-axis measuring system Heidenhain Rotary Encoder ROD426 2500 PPR
1.8	Spindle & Tool measuring system Heidenhain Rotary Encoder ROD 426, 1024 PPR
1.9	Turret Position Encoder Rotary Encoder, BALLUFF make BWG1-12-07-00-P-R-00-5
1.10	X-axis feed motor, with Brake: SIEMENS IHU3104-0AH01-Z, 4.3 KW, 179 V, 27A, 2000 RPM, Mo=25 NM, Io=31 A
1.11	Z-axis feed motor:, without brake, SIEMENS IHU3104-0SD01-Z, 2.6 KW, 175 V, 16.5 A, 1200 RPM, Mo=40 NM, Io=31 A
1.12	Tool drive motor: SIEMENS 1FT5104-0AC01-Z, Mo=37NM, Io=56A, 5.24KW, 33A, 2000RPM
1.13	Spindle motor: DC Servo Motor, SIEMENS 1GG5 184-0WE40-6HU5, 50-1430-3900RPM, 2.7-60KW, 380V, 175A
1.14	Details of Induction Motors & Cooling Units: 10 HP - 1 no., 5 HP -2 nos., 2 HP - 1no., 750 W - 1no., 70 W - 1no.