



MACHINED COMPONENTS (GROUP -IV)

Sl no.	Nomenclature & drawing No.	Manufacturing technology & Testing / Inspection Facilities required to produce the item		Must be possessed by the vendor in his premises (P&M list and testing / inspection equipment list to be submitted)	May be possessed by the vendor in his premises or out sourced (Self declaration to be submitted)	FIRM Compliance (Y/N)	Remarks
1	Components as per enclosed list of Machined Components (Group IV) <i>Total items = 47 Nos</i>	TECHNOLOGY-1	Turning	CNC Turning dia 600mm suitable to accommodate component of diameter in the range of dia 250 to 600mm with 0.010mm accuracy			
			Milling & Drilling	HMC and/or VMC suitable to the components upto the size 630mm diameter with 0.010 accuracy			
			Gear Hobbing		Gear Hobbing of Mod 3 x cutting ϕ 400 with gear cutting accuracy of class of Din 7 or better accuracy		
		TECHNOLOGY-3	Gear Shaping		Gear Shaping of Mod 5 with gear cutting accuracy of class of Din 7 or better accuracy.		
			Hardening & Tempering		Hardening & Tempering furnace with Oil quenching facility		
			Protection coating		Oxidising Plant		
			TECHNOLOGY-4	Raw material		Firm should be capable to arrange the raw material like Forging, Casting, Bar material etc as per drawing specification and standard.	

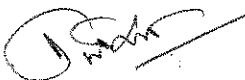

(D.SATHISH KUMAR)
 WM/QA(NF& QMSC)


(LUXMAN SINGH)
 WM/TRG-II, HT & EP



(K.DURAIRAJ)
 JWM/Trans -II

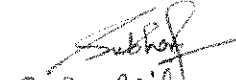
Sl no.	Nomenclature & drawing No.	Manufacturing technology & Testing / Inspection Facilities required to produce the item		Must be possessed by the vendor in his premises (P&M list and testing / inspection equipment list to be submitted)	May be possessed by the vendor in his premises or out sourced (Self declaration to be submitted)	FIRM Compliance (Y/N)	Remarks	
1	Components as per enclosed list of Machined Components (Group IV)	TEST / INSPECTION-1	3D CMM	3D CMM 500 x 500mm.				
			Gear Profile Tester			Gear Profile Tester (Max module 5)		
			Surface Roughness Tester	Surface Roughness Tester for Ra & Rz values				
			Gauges	Standard Gauges for checking Holes and threads suitable to the requirement of the components. Firm should submit the undertaking in this regard that they will create the facilities within 6 months from the date of receipt of order.				
			Measuring Instruments	Gear Teeth Micrometer, Vernier Caliper, Groove Vernier, Radius gauge, Feeler Gauge etc. suitable to the requirement of the components				
		TEST / INSPECTION-2	Hardness measurement			Brinell / Rockwell Hardness Tester		

Note : Justification for alternate facilities may be shared to prove that alternate facilities can be utilised to manufacture the item wherever the facilities are mentioned above are not available, but vendor has alternate facilities.


(D.SATHISH KUMAR)
 WM/QA(NF& QMSC)


(J.P.SINGH)
 GM-OPERATIONS I


(LUXMAN SINGH)
 WM/TRG-II, HT & EP


 Alt to **(NEERAJ KUMAR)**
 QA-RIG(OE)


(K.DURAIRAJ)
 JWM/Trans -II


(ANIMESH PAIK)
 DGM/CA, TRG & RG