

**LIST OF ITEMS FOR MIM No. 2009034**

1	Upgradation Package of Amada Turret Punch (9/A/2084) consisting of following items (Details of existing Machine as per <b>Annexure II</b> ):	1 Set
1.1	A three axes Digital CNC System of Siemens 840D/Fanuc FS 0i-PC with detailed specs as per <b>Annexure III</b> - (1 Set)	
1.2	X, Y & T axes AC Servo digital Drives & AC Servo Motors.50 N-m, 3000 rpm AC Digital Servo motors Fanuc or Siemens make with matching digital AC servo feed drives Alpha FANUC Make or 611D Siemens make , Rotary Encoders (Motor mounted) and Power ,Signal & Encoder cables with pre-assembled connectors at least 20 meter length. All the brackets required for the fitment of servo motors and the necessary design and fitments will be provided by supplier. (3 Sets)	
1.3	Isolation Transformer of (Neel / AEI make) 45 KVA rating,415 V,3 phase,3 wire,50 Hz , 3 wire system without neutral . (1No.)	
1.4	Electrical Panel ( Rittal make) with Air Conditioner and complete switchgear, transformers,DC power supplies etc for complete upgradation of Machine.It should have proper lighting and Plug Socket for 230 Volt - (1 Set)	
1.5	New CNC Control pendant(Rittal make) with Operator panel, Machine Control Panel etc.and fitted with Air Conditioner. (1 Set)	
1.6	New actuating elements & sensing elements(Balluff/Euchner make),push buttons, indicating lamps(LED type) ,complete wiring of the Machine including power & signal cables(Lapp/Finolex make) to be provided. (1 Set)	
1.7	Documentation for Electrical ckts ,PLC, programming, interface, maintenance, operation,parameter manuals (hard copy & soft copy). (3 sets)	
1.8	PCMCIA /Flash Memory Card 64 MB(reputed make) for Data Backup of Machine - (1No.)	
	Remarks: 1) Payment Terms,Training,Qualifying Criteria,Erection & Commissioning of above items,Inspection,warranty,completion period etc as per <b>Annexure I</b> )	
	Remarks: 2) Any other electrical items required for running of the machine is to be provided by the supplier .	