М С 4								
Manufacturer				Customer				
Type of motor	3 phase Induction Motor			BBL Enquiry reference No Customer P.O.Number				
Quantity Application	CUSTOMED TO FUDNICU		W.O. No. / SAP No.					
Tag no.	CUSTOMER TO FURNISH		Output kW / Pole	7.5 / 4P				
BBL type Ref.		MD13M4K3		Frame size	1.5	/ MJ132	41	
Installation detail				Applicable standards (latest edition)		IVIJ I 52		
		Hazardous area		Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Moto	ors: IS/IEC (60079-	
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck				Dimensions: IS 1231/IS 2223/IS:8223			00077	
Altitude (meters)				Vibrations: IS 12075				
				Noise level: IS 12065				
Hazardous area	details	1		Supply conditions and permissible variations (grid	supply)			
Area classification GAS (Zone 1/Zone 2)							Three	
Gas group		IIA, IIB		Voltage (Volts) and permisible variation	415 ±10%)%	
Temp.class				Frequency (Hz) and permissible variation	50 ±5%		%	
Type of Explosion protection				Combined variation (absolute sum)	±10%			
(EL D/Tyme 'o'/Tyme 'n') Approving authority for hazardous area		If Mine application then DGMS else PESO						
Electrical param	neters							
Starting perform					1			
Method of starting		DOL		Starting current (%FLC)	600			
Load speed (rpm)		CUSTOMER TO FURNISH		Starting torque (%FLT)	230			
Motor GD^2 (kgm ²)		0.126		Pull out torque (%FLT)	300			
Load GD^2 (kgm ²)		CUSTOMER TO FURNISH		Locked rotor withstand time (hot/cold) (sec)	8 / 16			
Load torque-speed curve		Parabolic IS curve		Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3			
Starting time at ra	ated voltage (sec)	PLEASE FURNISH AL DETAILS	L ABOVE					
Running Perform	nance	1						
Efficiency class		-		Duty and designation	Continuous (S1)			
Ambient temp./temp.rise by resistance (deg.C)				CDF/Equivalent starts per hour/FI				
Enclosure		FAN COOLED)		Insulation class / utilisation class on DOL	F/B			
Full load current (FLC) amps.				Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage			
Full load speed (1				Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable			
Full load torque (FLT) kg-m				Stator/rotor time constant (min)	90/122			
•	t FL/0.75FL/0.5FL	87.5 87.0	85.0	Power factor at FL/0.75FL/0.5FL	0.87	0.82	0.72	
Mechanical para	imeters						•	
Mounting				Mounting dimensions	Refer GA drawing			
Shaft extention	, •	Single cylindrical		Direction of rotation viewed from DE	Clockwise			
Degree of protect	tion	IP 55		Suitable for bidirectional rotation	Yes			
Method of cooling (TEFC/forced cooled/TESC)				Paint type	Acid Alkali Proof			
Net weight of mo	otor (kg)	113		Paint shade	632 as per IS 5			
D •				Earthing provision (two terminals on stator body)		Yes		
Bearings	/ 1 1 / 1 1 / 0	1		Terminal box				
Coupling (Direct/flexible/Belt &		Direct		erminal box location when viewed from DE As per GA		per GA dra	wing	
Pulley/Gearbox)	(OD = 141)							
Dimenssions of pulley (OD x width) mm		-		Direction of cable entry	As per GA drawing			
Bearings (roller/ball/angular contact)		Ball /Ball		Cable size and type(Aluminium)	1R X 3C X 16 SQ MM			
Bearing size DE/NDE		6208 2Z C3/6208 2Z C3		Earthing provision (one terminal in TB)	Yes			
Type of lubrication	on	LITHIUM SOAP BASE	GREASE			3 / DELTA ,	/ 6	
Accessories	• 1 / / • • • • •							
RTDs - 3 numbers simplex(w/o controller)			Arrow plate for direction of rotation					
BTDs - 1 number per bearing(w/o controller) Space heaters - single phase 50z, 230V				Double compression glands (main cable) Double compression glands (Space				
•				heater/Thermisters/RTDs)				
Thermisters - PT				Brake (Type/voltage/torque)				
Additional T-Box Additional namer	x for Accessories							
- (1 CI 1 1 C 1 C 1 C 1 C 1 C 1 C 1 C C 1 C C 1 C C 1 C C 1 C		1			1			

2) Performance values are at rated voltage and rated frequency condition and for DOL starting condition.

3) Motor $GD^2 = Load GD^2$ assumed wherever not mentioned.

4) Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.

5) Kilowatt rating is mandatory and HP is approximate.

6) Accessories provided are marked as "YES"

Prepared by	
Approved by	

			Revison	
Project:	Contractor/Client		Date:	
Consultant	Package			