ManufacturerBharat Bijlee Ltd.		Customer			
Type of motor 3 Phase Induction Motor		BBL Enquiry reference No			
Quantity CUCTON		Customer P.O.Number			
	ER TO FURNISH	W.O. No. / SAP No.	20		4.D
ag no.		Output kW / pole	30	/	4P
BL type tef.	2J20L453	Frame size		MJ200	
nstallation details		Applicable standards (latest edition)			
Area classification (Safe / Hazardous)		Performance: IS/IEC 60034-1 Maintenance IS:900 I	FLP Moto	ors: IS/IEC 60	079-1
Location: indoor/outdoor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)	1000 or less	Vibrations: IS 12075			
		Noise level: IS 12065			
Hazardous area details		Supply conditions and permissible variations (gria	l supply)		
area classification GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Bas group	IIA, IIB	Voltage (Volts) and permisible variation	415	±10	%
emp.class	T5	Frequency (Hz) and permissible variation	50	±59	%
ype of Explosion protection (FLP/Type //Type 'n')	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area	If Coal Mine application then DGMS else PESO				
Electrical parameters					
Starting performance					
Aethod of starting	DOL	Starting current (%FLC)		700	
.oad speed (rpm)		Starting torque (%FLT)		260	
Aotor GD^2 (kgm ²)	0.93	Pull out torque (%FLT)		260	
			10		24
Load $GD^2(kgm^2)$	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	12	/	24
oad torque-speed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performance					
Efficiency class	IE2	Duty and designation	Continuous (S1)		
Ambient temp./temp.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		-	
Enclosure	TEFC (TOTALLY ENCLOSED 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 (rpm)		Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applicab	
Full load torque (FLT) kg-m	19.9	Stator/rotor time constant (min)		144/194	
Efficiency in % at FL/0.75FL/0.5FL		Power factor at FL/0.75FL/0.5FL	0.86	0.82	0.72
Antelency in 70 at 1 E 0.751 E 0.51 E	72.3 72.0 70.0		0.00	0.02	0.72
Aounting	B8	Mounting dimensions	Re	efer GA drav	ving
Shaft extention	Single cylindrical	Direction of rotation viewed from DE		Clockwise	<u> </u>
Degree of protection	IP 55	Suitable for bidirectional rotation		Yes	,
Aethod of cooling (TEFC/forced		Paint type	Yes Acid Alkali Proof		
ooled/TESC)					
Net weight of motor (kgs.)	319	Paint shade	6	532 as per IS	5 5
		Earthing provision (two terminals on stator body)		Yes	
Bearings		Terminal box			
Coupling (Direct/flexible/Belt &	Direct	Terminal box location when viewed from DE	Δς	per GA drav	wino
Pulley/Gearbox)				•	0
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)	2R X 3C X 50 SQ MM		
Bearing size DE/NDE		Earthing provision (one terminal in TB)		Yes	
Type of lubrication	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
ccessories					
RTDs - 3 numbers simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number per bearing (w/o controller)		Double compression glands (main cable)			
pace heaters - single phase 50z, 230V		Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PTC, 1 number per phase		Brake (Type/voltage/torque)			
Additional T-Box for Accessories Additional nameplate					

Notes:

1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.

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	Date.	