Manufacturer Bharat Bijlee Ltd.		Customer			
Type of motor 3 Phase Induction Motor		BBL Enquiry reference No			
Quantity		Customer P.O.Number			
	ER TO FURNISH	W.O. No. / SAP No.			
Гag no.		Output kW / pole	30	/	2P
BBL type tef.	2J20L2A5	Frame size		200L	
Installation details		Applicable standards (latest edition)			
Area classification (Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mote	ors: IS/IEC 6	0079-1
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	d supply		
Area classification GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group	IIA, IIB	Voltage (Volts) and permisible variation	415	±1(0%
Temp.class	#N/A	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion protection (FLP/Type e'/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					
Method of starting	DOL	Starting current (%FLC)		650	
Load speed (rpm)		Starting torque (%FLT)		260	
Motor GD^2 (kgm ²)	0.524	Pull out torque (%FLT)		300	
	CUSTOMER TO FURNISH		10	/	24
Load GD ² (kgm ²)	Parabolic TS curve	Locked rotor withstand time (hot/cold) (sec)Number of consecutive starts (hot/cold) (nos.)	12	2/3	24
		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.	51.6	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applical	ble
Full load torque (FLT) kg-m	9.91	Stator/rotor time constant (min)		144/194	
Efficiency in % at FL/0.75FL/0.5FL		Power factor at FL/0.75FL/0.5FL	0.88	0.86	0.80
Mechanical parameters				-	
Mounting	B5	Mounting dimensions	R	efer GA dra	wing
Shaft extention	Single cylindrical	Direction of rotation viewed from DE		Clockwise	<u> </u>
Degree of protection	IP 55	Suitable for bidirectional rotation		Yes	-
Method of cooling (TEFC/forced		Paint type	A	cid Alkali P	roof
cooled/TESC)					
Net weight of motor (kgs.)	300	Paint shade		632 as per I	33
		Earthing provision (two terminals on stator body)		Yes	
Bearings		Terminal box			
Coupling (Direct/flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox) Dimenssions of pulley (OD x width) mm	_	Direction of cable entry		•	
Bearings (roller/ball/angular contact)	- Ball /Ball	Cable size and type(Aluminium)	As per GA drawing 2R X 3C x 50 SQ MM		
		Earthing provision (one terminal in TB)	Yes		
Fund of lubrication		No of phases/Winding connection/number of		2 / DEI T 4	16
Type of lubrication Accessories	LITUINI SUAP BASE GKEASE	terminals		3 / DELTA	/ 0
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)			
Space heaters - single phase 50z, 230V		Double compression glands (Space			
		heater/thermisters/RTDs)			
Thermisters - PTC, 1 number per phase Additional T-Box for Accessories Additional nameplate		Brake (Type/voltage/torque)			

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.	