Bharat Bijlee			for motors			
	arat Bijlee Ltd.		Customer			
	hase Induction Motor		BBL Enquiry reference No			
<b>Quantity</b>			Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	2.2		4.D
lag no.			Output kW / pole	2.2	/	4P
BBL type tef.		2J10L473	Frame size		MJ100	
nstallation details			Applicable standards (latest edition)			
Area classification (S	Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC 6	50079-1
ocation: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
ltitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area deta	ails		Supply conditions and permissible variations (grid	d supply	)	
Area classification G	AS (Zone 1/Zone 2)	ZONE I	Number of phases	<u> </u>	Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
Temp.class		T5	Frequency (Hz) and permissible variation	50	±5	5%
<b>A</b>	rotection (FLP/Type	<b>—</b> 1			. 1.0.0/	
e'/Type 'n')		Ex d	Combined variation (absolute sum)		±10%	
	for harander	If Coal Mine application then				
Approving authority	for nazardous area	DGMS else PESO				
Electrical parameter	rs	·	· I			
starting performanc						
Aethod of starting		DOL	Starting current (%FLC)		600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		260	
Aotor $GD^2$ (kgm <sup>2</sup> )		0.0211	Pull out torque (%FLT)		300	
Load $GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
			Number of consecutive starts (hot/cold) (nos.)	10	1	
Load torque-speed cu	urve	Parapolic IN curve	provided Load $GD2 = Motor GD2$		2/3	
		PLEASE FURNISH ALL ABOVE				
Starting time at rated	voltage (sec)	DETAILS				
Running Performan	ice					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
<b>v</b>	rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI		-	
molent temp./ temp.	Tise by resistance (deg.e)	TEFC (TOTALLY ENCLOSED	CD1/Lquivalent starts per noui/11			
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
Full load current (FL	C) amps	4.37	Rotor type (Squirrel Cage/ Slip ring )		Squirrel Ca	IJOE
Full load speed (rpm)		1425	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	0
Full load torque (FLT			Stator/rotor time constant (min)		108/146	
Efficiency in % at FL			Power factor at FL/0.75FL/0.5FL	0.83	0.74	0.60
Mechanical parame		01.5 01.5 02.5		0.05	0.71	0.00
Aounting		B8	Mounting dimensions	R	efer GA dra	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockwis	0
Degree of protection		IP 55	Suitable for bidirectional rotation		Yes	-
Method of cooling (T						
cooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor	(kgs.)	62	Paint shade	632 as per IS 5		S 5
ver weight of motor (Rgs.)			Earthing provision (two terminals on stator body)	<b>L</b>		
Bearings			<i>Terminal box</i>		1 00	
Coupling (Direct/flex	xible/Belt &					
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As	s per GA dra	awing
	y (OD x width) mm	_	Direction of cable entry	As per GA drawing		
Jimenssions of nulle		D 11 /D 11			1	<u> </u>
Ĩ	<b>1</b> .	Ball /Ball	Cable size and type(Aluminium)	1R 2	X 3C X 16 S	SQ MN
L	angular contact)				Yes	
Bearings (roller/ball/a		6206 2Z C3 / 6206 2Z C3	Earthing provision (one terminal in TB)			
Bearings (roller/ball/a Bearing size DE/ND			Earthing provision (one terminal in TB) No of phases/Winding connection/number of			1 -
Bearings (roller/ball/a Bearing size DE/ND			No of phases/Winding connection/number of		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND			No of phases/Winding connection/number of		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND Cype of lubrication	E		No of phases/Winding connection/number of terminals		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND Type of lubrication Accessories RTDs - 3 numbers size	E mplex (w/o controller)		No of phases/Winding connection/number of terminals Arrow plate for direction of rotation		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND Type of lubrication Accessories RTDs - 3 numbers size BTDs - 1 number per	E mplex (w/o controller) r bearing (w/o controller)	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable)		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND Type of lubrication Accessories RTDs - 3 numbers size	E mplex (w/o controller) r bearing (w/o controller)	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals Arrow plate for direction of rotation		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND Type of lubrication Accessories RTDs - 3 numbers size BTDs - 1 number per Space heaters - single	E mplex (w/o controller) r bearing (w/o controller) e phase 50z, 230V	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminalsArrow plate for direction of rotationDouble compression glands (main cable)Double compression glands (Space heater/thermisters/RTDs)		3 / DELTA	/ 6
Bearings (roller/ball/a Bearing size DE/ND Type of lubrication Accessories RTDs - 3 numbers size BTDs - 1 number per Space heaters - single	E mplex (w/o controller) r bearing (w/o controller) e phase 50z, 230V 1 number per phase	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminalsArrow plate for direction of rotationDouble compression glands (main cable)Double compression glands (Space		3 / DELTA	/ 6

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.	