Bharat Bijlee			for motors	
Manufacturer Bha	arat Bijlee Ltd.		Customer	
Type of motor 3 Ph	nase Induction Motor		BBL Enquiry reference No	
Quantity			Customer P.O.Number	
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.	
Гag no.			Output kW / pole	7.5 / 6P
BBL type tef.		2J16M633	Frame size	MJ160
nstallation details			Applicable standards (latest edition)	
Area classification (Sa	afe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Motors: IS/IEC 60079-1
Location: indoor/outd	oor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223	
Altitude (meters)		1000 or less	Vibrations: IS 12075	
Intitude (meters)			Noise level: IS 12065	
Hazardous area deta	ils		Supply conditions and permissible variations (gri	id supply)
Area classification GA		ZONE I	Number of phases	Three
	AS (ZOIIC 1/ZOIIC 2)			
Gas group		IIA, IIB	Voltage (Volts) and permissible variation	$415 \pm 10\%$
Temp.class		T5	Frequency (Hz) and permissible variation	50 ±5%
Type of Explosion pro e'/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)	±10%
Approving authority f	for hazardous area	If Coal Mine application then DGMS else PESO		
Electrical parameters				
starting performance	e			
Aethod of starting		DOL	Starting current (%FLC)	550
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	200
Motor GD^2 (kgm ²)		0.276	Pull out torque (%FLT)	250
Load $GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 30
oad torque-speed cu	rve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	2/3
Starting time at rated		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2	
		DETAILS		
Running Performand	с <i>е</i>			
Efficiency class		IE2	Duty and designation	Continuous (S1)
Ambient temp./temp.r	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	C) amps.	15	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage
Full load speed (rpm)		960	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	
Full load torque (FLT		7.61	Stator/rotor time constant (min)	90/122
Efficiency in % at FL		87.2 87.2 85.2	Power factor at FL/0.75FL/0.5FL	0.80 0.74 0.64
V		01.2 01.2 03.2	TOwer factor at TL/0.75TL/0.5TL	0.80 0.74 0.04
Mechanical paramet	ers	D2		
Aounting		B3 Single extindrice1	Mounting dimensions	Refer GA drawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes
Method of cooling (Tatooled/TESC)	EFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof
Net weight of motor ((kgs.)	149	Paint shade	632 as per IS 5
			Earthing provision (two terminals on stator body)	Yes
Bearings			<i>Terminal box</i>	
Coupling (Direct/flexi	ihle/Relt &			
		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	As per GA drawing
Parto J		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 35 SQ MN
Searings (roller/ball/a	~ /		Earthing provision (one terminal in TB)	Yes
Bearings (roller/ball/a Bearing size DE/NDE	Ξ	6209 2Z C3 / 6209 2Z C3		
Bearing size DE/NDE	<u>-</u>		No of phases/Winding connection/number of	
Bearing size DE/NDE	Ξ	6209 2Z C3 / 6209 2Z C3 LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6
Bearing size DE/NDE Type of lubrication			terminals	3 / DELTA / 6
Bearing size DE/NDE Type of lubrication Accessories RTDs - 3 numbers sin	nplex (w/o controller)		terminals Arrow plate for direction of rotation	3 / DELTA / 6
Bearing size DE/NDE Type of lubrication Accessories RTDs - 3 numbers sin			terminals Arrow plate for direction of rotation Double compression glands (main cable)	3 / DELTA / 6
Bearing size DE/NDE Fype of lubrication Accessories RTDs - 3 numbers sin BTDs - 1 number per	nplex (w/o controller) bearing (w/o controller)		terminals Arrow plate for direction of rotation	3 / DELTA / 6
Bearing size DE/NDE Fype of lubrication Accessories RTDs - 3 numbers sire	nplex (w/o controller) bearing (w/o controller) phase 50z, 230V		terminalsArrow plate for direction of rotationDouble compression glands (main cable)Double compression glands (Space	3 / DELTA / 6
Bearing size DE/NDE Type of lubrication Accessories ATDs - 3 numbers sin BTDs - 1 number per Space heaters - single	nplex (w/o controller) bearing (w/o controller) phase 50z, 230V number per phase		terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)	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		