Manufacturer Type of motor Ouantity					
~1	Bharat Bijlee Ltd.		Customer		
Quantity	3 Phase Induction Motor		BBL Enquiry reference No		
<b>~</b> <i>·</i>	CUSTOMER TO FURNISH		Customer P.O.Number		
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	15 /	4P
Fag no. BBL type tef.			Output kW / pole Frame size	1.5 /	90L
Installation deta	uls		Applicable standards (latest edition)		JOL
Area classificatio	on (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900		
Location: indoor/outdoor/deck Altitude (meters)		Indoor	Dimensions: IS 1231/IS 2223/IS:8223		
		1000 or less	Vibrations: IS 12075		
			Noise level: IS 12065		
Hazardous area		N.A.	Supply conditions and permissible variations (grid		
Area classification GAS (Zone 1/Zone 2) Gas group		N.A.	Number of phases Voltage (Volts) and permisible variation	Three 415 ±10%	
Temp.class		N.A.	Frequency (Hz) and permissible variation	50 ±5%	
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)	±10%	
Approving authority for hazardous area		Not Applicable			
Electrical param	neters				
Starting perform					
Method of startin	0	DOL CUSTOMED TO EUDNISH	Starting current (%FLC)	550	
Load speed (rpm		CUSTOMER TO FURNISH 0.013	Starting torque (%FLT)	250 280	
Motor $GD^2$ (kgm	/	0.013 CUSTOMER TO FURNISH	Pull out torque (%FLT)		280 30
Load GD <sup>2</sup> (kgm <sup>2</sup> )		Parabolic TS curve	Locked rotor withstand time (hot/cold) (sec) Number of consecutive starts (hot/cold) (nos.)	10 /	
Load torque-spee		Parabolic TS curve PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2		2/3
Starting time at r Running Perfori	rated voltage (sec) mance	DETAILS			
Efficiency class		IE2	Duty and designation	Continuous (S1)	
Ambient temp./temp.rise by resistance (deg.C)		50 / 70	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.		3.23	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage	
Full load speed (1		1425	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		pplicable
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		1.03 82.8 82.8 80.5	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	84/113 0.78 0.68 0.5	
Mechanical para	ameters	Dr		D.C. (	
Mounting Shaft extention		B5 Single cylindrical	Mounting dimensions Direction of rotation viewed from DE		3A drawing ockwise
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes	
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic	
Net weight of mo	ntor (kgs.)	17	Paint shade	RAL 5000	
ter weight of me	(kgs.)	17	Earthing provision (two terminals on stator body)		Yes
		т	Terminal box	Т	
	(G. 111 (D. 1. A				
Bearings Coupling (Direct	/flexible/Belt &	Direct	Terminal box location when viewed from DE	As per 0	GA drawing
Coupling (Direct Pulley/Gearbox)		Direct		-	
Coupling (Direct Pulley/Gearbox) Dimenssions of p	/flexible/Belt & pulley (OD x width) mm ball/angular contact)		Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium)	As per 0 1R X 3C X	GA drawing 4 SQ MM O
Coupling (Direct Pulley/Gearbox) Dimenssions of p	pulley (OD x width) mm ball/angular contact)	- Ball /Ball	Direction of cable entry Cable size and type(Aluminium)	As per 0 1R X 3C X 2R X 3C	GA drawing
Coupling (Direct. Pulley/Gearbox) Dimenssions of p Bearings (roller/t	oulley (OD x width) mm ball/angular contact) NDE	- Ball /Ball	Direction of cable entry	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM
Coupling (Direct, Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication	oulley (OD x width) mm ball/angular contact) NDE	- Ball /Ball 6205 2Z C3 / 6205 2Z C3	Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM Yes
Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication Accessories RTDs - 3 number	bulley (OD x width) mm ball/angular contact) NDE on rs simplex (w/o controller)	- Ball /Ball 6205 2Z C3 / 6205 2Z C3	Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM Yes
Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication Accessories RTDs - 3 number BTDs - 1 number	pulley (OD x width) mm ball/angular contact) NDE on rs simplex (w/o controller) r per bearing (w/o controller)	- Ball /Ball 6205 2Z C3 / 6205 2Z C3	Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM Yes
Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication Accessories RTDs - 3 number BTDs - 1 number Space heaters - s	bulley (OD x width) mm ball/angular contact) NDE on rs simplex (w/o controller)	- Ball /Ball 6205 2Z C3 / 6205 2Z C3	Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM Yes
Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/h Bearing size DE/ Type of lubricatie Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PT Additional T-Boy	oulley (OD x width) mm ball/angular contact) NDE on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories	- Ball /Ball 6205 2Z C3 / 6205 2Z C3	Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM Yes
Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication Accessories RTDs - 3 number BTDs - 1 number Space heaters - s Thermisters - PT	oulley (OD x width) mm ball/angular contact) NDE on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories	- Ball /Ball 6205 2Z C3 / 6205 2Z C3	Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)	As per 0 1R X 3C X 2R X 3C	GA drawing 4 SQ MM O X 4 SQ MM Yes

Project:	Contractor/Client		Date:	
Consultant	Package			