Manufacturer Type of motor Quantity	Bharat Bijlee Ltd.					
~ 1	bharat bijiee Liu.		Customer			
Quantity	3 Phase Induction Motor		BBL Enquiry reference No			
	CUSTOMER TO FURNISH		Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	1.1 /	6P	
Tag no. BBL type tef.			Output kW / pole Frame size	1.1 / 90		
Installation deta	tils		Applicable standards (latest edition)	50	L	
Area classificatio	on (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900			
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
Uazandous anoa	dotaile		Noise level: IS 12065 Supply conditions and permissible variations (grid	d sunnlu)		
Hazardous area details Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three		
Gas group		N.A.	Voltage (Volts) and permisible variation	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 autho	rity for hazardous area	Not Applicable				
Electrical param			L			
Starting perform		Day				
Method of startin	0	DOL CUSTOMER TO FURNISH	Starting current (%FLC)	40	-	
Load speed (rpm		0.0155	Starting torque (%FLT) Pull out torque (%FLT)	20		
Motor GD^2 (kgm	,	CUSTOMER TO FURNISH	1 ()	-	-	
Load GD ² (kgm ²)			Locked rotor withstand time (hot/cold) (sec) Number of consecutive starts (hot/cold) (nos.)	15 /	30	
Load torque-speed curve		Parabolic TS curve PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2	2/3		
Starting time at r Running Perfor i	rated voltage (sec)	DETAILS				
Efficiency class	mance	IE2	Duty and designation	Continuo	us (S1)	
	emp.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.	2.72	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (1		920	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not app		
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		1.16 78.1 78.1 74.0	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	84/113 0.72 0.61 0.5		
Mechanical para	ameters					
Mounting		B5 Sincle settindaired	Mounting dimensions	Refer GA	U	
Shaft extention Degree of protection		Single cylindrical IP 55	Direction of rotation viewed from DE Suitable for bidirectional rotation	Clockwise Yes		
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic		
	g (TEFC/forced cooled/TESC)	- (-)	r unit type			
Method of coolin	,	17		-		
Method of coolin	,	17	Paint shade Earthing provision (two terminals on stator body)	RAL 5		
Method of coolin Net weight of mo	,	17	Paint shade Earthing provision (two terminals on stator body) Terminal box	-		
Method of coolin Net weight of mo	otor (kgs.)		Earthing provision (two terminals on stator body) Terminal box	RAL 5 Ye	s	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox)	/flexible/Belt &	Direct	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE	RAL S Ye As per GA	s drawing	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox)	otor (kgs.)		Earthing provision (two terminals on stator body) Terminal box	RAL S Ye As per GA As per GA	s drawing drawing	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/h	/flexible/Belt & pulley (OD x width) mm pall/angular contact)	Direct - Ball /Ball	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium)	As per GA As per GA IR X 3C X 4 2R X 3C X	s drawing drawing SQ MM OI 4 SQ MM	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p	/flexible/Belt & pulley (OD x width) mm pall/angular contact)	Direct - Ball /Ball	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB)	As per GA As per GA IR X 3C X 4 5	s drawing drawing SQ MM O 4 SQ MM	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubricatio	/flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE	Direct - Ball /Ball	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium)	As per GA As per GA IR X 3C X 4 2R X 3C X	s drawing drawing SQ MM OI 4 SQ MM s	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubricatio Accessories	/flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on	Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE 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 GA As per GA 1R X 3C X 4 2R X 3C X Ye	s drawing drawing SQ MM O 4 SQ MM s	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication Accessories RTDs - 3 number	/flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on rs simplex (w/o controller)	Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE 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 GA As per GA 1R X 3C X 4 2R X 3C X Ye	s drawing drawing SQ MM O 4 SQ MM s	
Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication Accessories RTDs - 3 number BTDs - 1 number	/flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on	Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE 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 GA As per GA 1R X 3C X 4 2R X 3C X Ye	s drawing drawing SQ MM O 4 SQ MM s	
Method of coolin Net weight of mo Bearings 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	/flexible/Belt & /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase	Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE 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)	As per GA As per GA 1R X 3C X 4 2R X 3C X Ye	s drawing drawing SQ MM O 4 SQ MM s	
Method of coolin Net weight of mo Bearings 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 Additional T-Boy	/flexible/Belt & /flexible/Belt & pulley (OD x width) mm pall/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	Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE 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 GA As per GA 1R X 3C X 4 2R X 3C X Ye	s drawing drawing SQ MM OI 4 SQ MM s	
Method of coolin Net weight of mo Bearings 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 - si Thermisters - PT	/flexible/Belt & /flexible/Belt & pulley (OD x width) mm pall/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	Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE 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 GA As per GA 1R X 3C X 4 2R X 3C X Ye	s drawing drawing SQ MM OI 4 SQ MM s	

Project:	Contractor/Client		Date:	
Consultant	Package			