(B) Bharat Bijlee Data sheet for motors Customer Bharat Bijlee Ltd. Manufacturer 3 Phase Induction Motor Type of motor **BBL** Enquiry reference No **Customer P.O.Number** Quantity **CUSTOMER TO FURNISH** W.O. No. / SAP No. Application 0.75 4P Output kW / pole Tag no. 2J080455 MJ80 BBL type tef. Frame size Installation details Applicable standards (latest edition) Performance: IS/IEC 60034-1 Maintenance IS:900 FLP Motors: IS/IEC 60079-1 Area classification (Safe / Hazardous) Hazardous Location: indoor/outdoor/deck Indoor Dimensions: IS 1231/IS 2223/IS:8223 1000 or less Vibrations: IS 12075 Altitude (meters) Noise level: IS 12065 Hazardous area details Supply conditions and permissible variations (grid supply) Area classification GAS (Zone 1/Zone 2) **ZONE I** Number of phases Three Voltage (Volts) and permisible variation IIA, IIB 415 ±10% Gas group T6 Temp.class Frequency (Hz) and permissible variation 50 ±5% Type of Explosion protection (FLP/Type Ex d ±10% Combined variation (absolute sum) 'e'/Type 'n') If Coal Mine application then Approving authority for hazardous area DGMS else PESO Electrical parameters Starting performance Method of starting DOL Starting current (%FLC) 500 Load speed (rpm) **CUSTOMER TO FURNISH** Starting torque (%FLT) 280 Motor GD^2 (kgm²) 0.0073 300 Pull out torque (%FLT) Load GD²(kgm²) **CUSTOMER TO FURNISH** 30 Locked rotor withstand time (hot/cold) (sec) 15 Number of consecutive starts (hot/cold) (nos.) Parabolic TS curve 2/3 Load torque-speed curve provided Load GD2 = Motor GD2 PLEASE FURNISH ALL ABOVE Starting time at rated voltage (sec) **DETAILS** Running Performance Continuous (S1) Efficiency class IE2 Duty and designation 45 75 CDF/Equivalent starts per hour/FI Ambient temp./temp.rise by resistance (deg.C) TEFC (TOTALLY ENCLOSED F/B Insulation class / utilisation class on DOL Enclosure FAN COOLED) Full load current (FLC) amps. Rotor type (Squirrel Cage/ Slip ring) Squirrel Cage Not applicable Full load speed (rpm) 1410 Rotor voltage/rotor current (RV/RA) (Volts/Amps) 0.52 Stator/rotor time constant (min) 90/122 Full load torque (FLT) kg-m Power factor at FL/0.75FL/0.5FL Efficiency in % at FL/0.75FL/0.5FL 79.6 79.6 76.0 0.77 0.67 0.55 Mechanical parameters Mounting B5 Mounting dimensions Refer GA drawing Shaft extention Single cylindrical Direction of rotation viewed from DE Clockwise IP 55 Yes Degree of protection Suitable for bidirectional rotation Method of cooling (TEFC/forced TEFC (IC 411) Acid Alkali Proof Paint type cooled/TESC) Paint shade Net weight of motor (kgs.) 32 632 as per IS 5 Earthing provision (two terminals on stator body) Yes Terminal box **Bearings** 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 As per GA drawing Direction of cable entry Bearings (roller/ball/angular contact) Ball/Ball 1R X 3C X 4 SQ MM Cable size and type(Aluminium) 6204 2Z C3 Earthing provision (one terminal in TB) Bearing size DE/NDE 6204 2Z C3 Yes No of phases/Winding connection/number of LITHIUM SOAP BASE GREASE Type of lubrication 3 / STAR / 3 terminals Accessories 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) Double compression glands (Space Space heaters - single phase 50z, 230V heater/thermisters/RTDs) Thermisters - PTC, 1 number per phase Brake (Type/voltage/torque) Additional T-Box for Accessories Additional nameplate 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"

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Project:	Contractor/Client	Dotos	
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