

Annexure-C
Technical Specifications

A. Item wise Technical Specifications			
Enq. Item SL.No	Technical Specifications	Qty Nos	Bidder Confirmation
10	8-channel analog input terminal Specification: Number of inputs: 8 (single-ended) Power supply: via the E-bus Signal voltage: -10 to +10 V Measuring error: < ±0.3 % (relative to full scale value) Single ended Technology and signal type Resolution: 12 bit (16 bit presentation incl. sign) Conversion time :1.25 ms default setting, configurable, multiplex Design form: compact terminal housing with signal LEDs Dimensions (W x H x D): 12 mm x 100 mm x 68 mm Installation: on 35 mm DIN rail, conforming to EN 60715 with lock Reference Make and Model: BECKHOFF PLC , Part No: EL3008 Note: 1. The PLC module shall be compatible with other BECKHOFF TWINCAT PLC Input output modules with EtherCAT communication. 2. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model.	2	
20	8-channel analog output terminal Specification: Number of outputs: 8 Power supply: 24 V DC via power contacts Signal voltage: 0 to 10 V Distributed clock precision: less than 1 µs Load: greater than 5 kΩ (short-circuit proof) Output error: 0.1 % (relative to end value) Resolution: 12 bit Connection technology: 1-wire, single-ended Conversion time : 400 µs Dimensions (W x H x D): 12 mm x 100 mm x 68 mm Reference Make and Model: BECKHOFF PLC, Part No: EL4008 Note: 1. The PLC module shall be compatible with other BECKHOFF TWINCAT PLC Input output modules with EtherCAT communication. 2. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model.	2	

30	PROFIBUS “Compact “Bus Coupler Specification: Number of Bus Terminals: 64 (255 with K-bus extension) Max. number of bytes fieldbus: 128 byte input and 128 byte output Data transfer rates: automatic detection up to 12 Mbaud Bus interface: 1 x D-sub 9-pin socket with shielding Power supply: 24 V DC (-15 %/+20 %) Input current: 70 mA + (total K-bus current)/4, 500 mA max. Current supply K-bus: 1750 mA Power contacts: max. 24 V DC/max. 10 A Sytem Data: Number of I/O stations: 100 with repeater Number of I/O points: approx. 6,000, depending on the master Data transfer medium: shielded copper cable, 2 x 0.25 mm² Max. cable length :1,200 m 1,000 m 400 m 200 m 100 m Data transfer rates: 9.6/19.2/93.75 kbaud 187.5 kbaud 500 kbaud 1,500 kbaud to 3, 6, 12 Mbaud Design form: compact terminal housing with signal LEDs Dimensions (W x H x D): 44 mm x 100 mm x 68 mm Reference Make and Model: BECKHOFF PLC , Part No: BK3150 Note: 1. The communication module shall be compatible with other BECKHOFF TWINCAT PLC and profibus master EL6731 with profibus communication. 2. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model.	1	
40	PROFIBUS Master terminal Specification: Technology: PROFIBUS master/slave terminal Cycle time: differing DP cycle times per slave are possible using the CDL concept Fieldbus: PROFIBUS DP (standard), PROFIBUS DP-V1 (Cl. 1+2: acyclic services, alarms), DP-V2, PROFIBUS MC (equidistant) Number of fieldbus channels: 1 Data transfer rates: 9.6 kbaud to 12 Mbaud Interfaces: 1 x D-sub socket, 9-pin, galvanically decoupled Bus device: max. 125 slaves with up to 244 bytes input, output, parameter, configuration or diagnostic data per slave Hardware diagnosis: status LEDs Distributed clocks Bit width in the process image: total max.: 1.4 kbyte input and 1.4 kbyte output data Dimensions (W x H x D): 24 mm x 100 mm x 52 mm Reference Make and Model: BECKHOFF PLC , Part No: EL6731 Note: 1. The PROFIBUS master terminal EL6731 supports the PROFIBUS protocol with all its features. Within an EtherCAT Terminal network, it enables the integration of any PROFIBUS devices like BK3150. 2. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model.	1	

50	Battery pack for industrial PC Specification: Nominal voltage: 24 V Nominal Capacity: 3.4 Ah (20 h discharge) Internal Structure: two 12 V batteries in series connection Fuse: 9 A by PTC element Type: battery pack for PCs with 24 V power supply with intergrated UPS, 3.4 Ah Housing: metal housing for mounting on norm rail TS35x15 2.3 Operating temperature: 0 to +50 °C Weight: 3.3 kg Dimensions (W x H x D):157 mm x 70 mm x 175 mm maintenance-free Additional Information: VRLA AGM Technology = valve regulated lead acid batteries with glass fiber mat inside the separator (VRLA = valve regulated lead acid, AGM = absorbed glass mat technology) Reference Make and Model: BECKHOFF, Part No: C9900-U330 Note: 1. The battery pack is compatible with beckhoff UPS for industrial PC. 2. Vendor to ensure compatibility with the existing systems here. Vendor shall prove-out integration of the supplied model in case it is different from the reference model.	1	
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Vendor Seal & Sign