

Technical Specification for Modbus TCP Gateways

Annexure-1

Note: Party shall provide all the essential requirements as sought in this annexure. The offers with incomplete information against this annexure shall be treated as technically disqualified and no more correspondence shall be made in this regard.

Sl. No	Descriptions	Requirement	Vendor Remarks	
			Confirmation	Deviation
1	Quoted Make & Model (vendor to specify)			
2	TCP based modbus gate way	Master side TCP and Slave side RS485 2Wire		
2.1	Multiple Master Support	Required		
3	TCP-port			
3.1	No of Ports (minimum required)	Two		
3.2	Port type	RJ45		
3.3	Inbuilt Switch function (Daisy Chain LAN)	Required		
4	Serial-Port			
4.1	No of Ports (minimum required)	One		
4.2	Port type	DB9 or terminal block type.(party to specify)		
4.3	Compatible connector cable with 04 nos DIN compatible TBs per serial port, if terminal block is not available at serial port side. (free of cost with device)	Applicable only for supplier providing DB9 connector at serial port side,		
4.4	Serial Standards	at least RS 485		
4.5	ESD protection (minimum required)	3kV for all signal		
4.6	Data Bits	at least 7 or 8		
4.7	Stop bits	1,2		
4.8	Parity	None, Odd, Even		
4.9	RS-485-2W	Data+, Data-, Gnd		
4.91	RS 485 support	Multi drop support is must upto minimum 12 devices.		
4.92	Baud rate (configurable) minimum required	4800/ 9600/ 19,200 kbps		
5	Software			
5.1	OS support	Windows 64 bit , windows 7 , Win 10, Server 2016		
5.2	Configuration	Web based or utility software password protected		
5.3	IP address	Configurable		
6	Others			
6.1	Auxiliary Power supply	min 30 V DC +/- 10%		
6.2	Power supply termination	(+) & (-) TB type , if power jack is available, supplier shall provide the required arrangement.		
6.3	Mounting	DIN-rail type		
6.4	Operating Temp range	0-60 deg C (or better) (suitable for wide temperature range)		
6.5	Certification	CE, FCC and Rohs (party shall submit the compliance proof)		
7	Documents to be submitted along with offer			
7.1	Technical Data Sheet	01 set		
8	Documents to be submitted along with supply			
8.1	Detailed Manual	01 set		
8.2	Configuration Software & drivers (In CD/pen drive)	1 set		
9	Inspection	At BHEL Bhopal		
10	Warranty Period (minimum)	2 years from date of receipt of material at BHEL Bhopal.		