MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY BATHINDA

ELECTRICAL ENGG. DEPARTMENT

Specifications of Up-gradation for PLC- SCADA/HMI System				
Sr. No.	Description of item		Qty.	Unit
1	Resolution	800 x 480 WVGA	1	No.
2	Display Type	TFT touch screen, wide LCD		
3	Display Hour	40,000 hours		
4	Colors	65K colors		
5	Backlight	LED		
6	Operator Input	Resistive touch		
7	Power Supply	24V DC		
8	Processor,	800 MHz		
9	Internal Storage	256 MB		
10	RAM	DDR 256 MB DDR		
11	Operation System	Microsoft Windows CE 6.0		
12	Real-time Clock With Battery	Yes		
13	Power Requirements (max)	11W		
14	Operating Temperature	0°…50°C		
15	RS232/RS422/485 (isolated)	Separate RS232 and RS422/RS485 connectors		
16	Ethernet 10/100 Mbps	1		
17	USB Host (USB 2.0)	Yes		
18	microSDTM Slot	Yes		
19	Front Bezel Protection	IP65, NEMA 4X, 12, 13		
20	Certifications	CULus listed; Class 1 Div 2, Groups A,B,C,D, T4A, CE, RCM, KC, RoHS		
21		Visualization solution for a wide variety of applications, Sample panel layouts, Sample screens with diagnostics Material Handling Packaging Applications, General Industrial Machinery Printing Food and Beverage Pharmaceutical Water.	1	NO.
		Upload and download parameter settings with a single operation. Save applications in .csv format for backup or offline modification. Communications		
		Software Connected Components Workbench Software Release 8.00 or later. MEDIA -Enterprise provides robust and reliable functionality in a single software package.		
22	Experiments need.	Real Time Application Trainer (Density based Traffic Light Control)	1	NO.
		Compatible 4way traffic light with light indicator for start and stop and density detector using IR on two sides.		

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		Real Time Application Trainer (Temperature Controller):	1	No.
		Heat chamber with Temperature indicator with relay controlled fan for cooling liquid.		
		Real Time Application Trainer (Conveyor Control)	1	No.
		1. DC motor operated conveyor belt with object detection using proximity sensor.		
		2. DC Motor Speed control Module Dc motor with voltage control feature using variac POT.		
		Real time Water level process tank Water tank fitted with float sensors and ultrasonic sensors.	1	No.
		Display of power generation and transmission parameters	1	No.

Note: System must be interfaced with LABVIEW software for real time GUI display.

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