		• The Color Code shall be RAL 7035; however, it shall be matched with the existing panel. • Programmable controllers RIO Panel shall be suitable for normal industrial environment and 50C ambient temperature. • Relative humidity daily average 80 to 90% (8 hrs.) and 65 to 90% (16 hrs.) Maximum 98%, not occurring simultaneously with maximum temperature.

Programming Station		
1	**Type**	• Shall be console / Tabletop type PC based/ Laptop based/ color graphic Workstation. • Configuration of all OWS and EWS shall be latest available in the market. • PC shall be Industrial grade suitable for rough environment and workstation category. • RAM:16 GB (DDR4), Hard disk- 1TB SDD (minimum), With latest Operating System with maximum of 50% loading. • Processors: Industrial grade processor latest (minimum: XEON processor /equivalent) with maximum of 50% loading. • Network port: Minimum 2 x (10/100/1GbE embedded/additional NIC).
2	**System Function**	• Error detection and reporting. • Fail safe / broken sensor information and alarm and their reset. • Selection of highest / lowest signal from a group of accepted inputs and displaying the same. • Provision shall be kept for pressure and temperature correction to be computed for flow measuring loops. • Built-in ambient temperature compensation for thermocouple inputs from field. • Trending real time and historical (Trending shall be provided for all analog inputs). • Fault logging. • Report generation and periodic logging.
Note: The design philosophy of C&I system shall be such that process shall be controlled from a the respective control rooms 'CO2 Capture, Compression, and Storage Block' control and the 'C-Brick Manufacturing Block control room' & hence all design, controls, interlock, instrument selection, HMI etc. should be developed accordingly.		

Human Machine Interface (HMI) Workstation & Engineering Station:

a)   It shall be console type PC based color graphic with latest configuration available in the market.