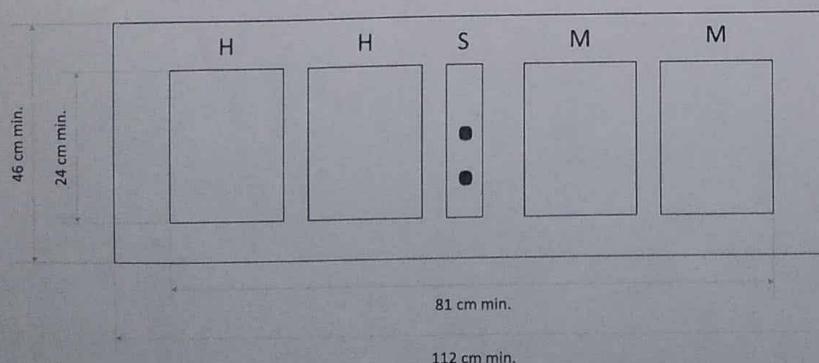


## SPECIFICATION FOR DIGITAL CLOCK INDOOR WORKSHOPS

### Technical Specification:

|                                      |  |
|--------------------------------------|--|
| Description                          | : Digital clock  |
| Mode of operation                    | : Standalone/Master slave  |
| Clock Location Height                | : 4mts /5mts   |
| No. of display sides                 | : Single face  |
| Type                                 | : High visible and high brightness with not less than 10000Mcd   |
| Viewing distance                     | : Clear view @minimum 150mts   |
| Viewing angle                        | : $\geq 110$ deg.  |
| Colour of LED                        | : Red  |
| Life of LED                          | : Not less than 1lakh operating hrs.   |
| Display size                         | : 12" double row, single side  |
| Time display                         | : Hrs & min. (HH:MM) with blinking colon for seconds.  |
| Time selection mode                  | : 12 Hrs/ 24 Hrs (User selectable)   |
| Application                          | : Indoor/ outdoor & Day /night.  |
| Clock time setting & reset functions | : Local and IR Remote control.   |
| Effective distance of remote control | : Not less than 15mts.   |
| Display Brightness control           | : Adjustment Facility to be provided.  |
| Time Accuracy                        | : 5ppm (Temperature compensation to be provided)   |
| Calibration Adjustment for time      | : Vendor to specify  |
| Power supply                         | : 180-240 V, 50 Hz AC (in built SMPS for 24V)  |
| Power consumption                    | : Vendor to specify  |
| Ambient temperature                  | : 0 to 60°C.   |
| Humidity                             | : 93% at +40°C (Non-condensing)2   |
| PCB type                             | : Glass epoxy  |
| Window screen colour                 | : Amber/Red  |
| Real Time Clock chip detail          | : Vendor to specify along with Data sheet for verification.  |
| Real time clock back up              | : To be provided.  |
| Dimension                            | : Vendor to specify (Minimum dimensions as per below sketch) – Any minor deviations in dimensions may be accepted after approval by User |
| Weight                               | : $\leq 20$ kgs.   |
| Housing                              | : Mild steel fabricated, powder coated, full elegant cover to suit aesthetic and easy maintenance.                                       |
| Mounting                             | : Two key holes at the back side of the Body and two hooks to be provided to suit wall mounting and hang mounting.                       |
| Interference protection              | : Line filter to be provided   |
| IP Protection                        | : Vendor to specify.   |
| Installation                         | : Vendor to visit BHEL, TRICHY for installation and commissioning.   |



*P. Udayanand*  
**P. UDAYANAND**  
MANAGER  
TUBULAR PRODUCTS / BPN  
BHEL, TRICHY - 620 014