

**GENERAL TECHNICAL REQUIREMENT OF FURNITURE FOR SCADA SYSTEM**

The console furniture is required for SCADA System which is to be installed in SCADA control room. SCADA system consist of 3 Nos. of workstation, 1 No. of metering PC and 2 Nos. of printer. Successful bidder shall have to provide console for these equipments. The console furniture shall be modular in design for ease of reconfiguration and upgrading.

The overall scope of the bidder is

- Design, fabrication and manufacturing of 6 Nos. of console and 3 Nos. of workstation chair as per attached drawing GETCO/E/SCADA FURNITURE / P-3705.
- Supply and erection of above items at site.

Detail technical requirements for console and workstation chair are as under.

**A. CONSTRUCTIONAL DETAILS:****a) Console:**

1. Console shall be floor mounted and fixed standing type. Foundation bolts shall be provided for grouting of console as per drawing no. GETCO/E/SCADA FURNITURE / P-3705 sheet 02.
2. Console shall be fabricated using suitable CRCA (Cold rolled close annealed) sheet steel of thickness not less than 1.6mm. Doors shall also be CRCA sheet steel of thickness not less than 1.6mm. Base frame and Gland plates shall be made of 3mm CRCA sheet steel.
3. Console surface finish shall be with 7 tank process followed by powder coating. The color shade shall be RAL – 7035 (structure finish) for exterior & Interior and RAL-7022 (structure finish) for Base frame. Paint thickness shall be 60 to 80 micron.
4. Front and Rear doors shall be projected type & single leaf with locking arrangement and door movement shall be possible up to 120° swing.
5. Door gasket shall be provided for front and rear door.
6. The retractable type tray shall be provided for CPU mounting & A3 size printer paper in respective console and tray shall be CRCA sheet steel having thickness not be less than 2.0 mm.
7. CPU shall be accessible from the front as well as rear without crawling under the console.
8. Each console shall be provided with front and rear fan with louver for air circulation.
9. 63mm diameter hole shall be provided on top of each console for passing of cables of monitor and 29mm diameter hole shall be provided for keyboard &

mouse as per attached drawing GETCO/E/SCADA FURNITURE / P-3705 sheet 01.

10. CRCA sheet drawer having telescopic channel shall be provided for keyboard as well as mouse.
11. Anti-vibration pad shall be provided at base frame of console. Thickness of pad shall be 15mm.
12. The overall dimension of each console shall be 765 mm (H) (including 100 mm base frame) x 650mm (W) x 1100 mm (D) as per attached drawing GETCO/E/SCADA FURNITURE / P-3705 sheet 01.
13. A copper earthing bus of 25X3 mm tinned Cu shall be provided in each console for secure connectivity to earthing grid.
14. Suitable arrangement shall be provided in the earthing bus to connect earth wires (Green, 4 sq.mm flexible copper) from the Terminal Blocks as well as other equipments.
15. The Front and Rear doors shall be earthed through flexible copper earth wire (Green, 4 sq.mm flexible copper)
16. Flexible multi strand copper wired with P.V.C insulation of 1100 volts grade FRLS type shall be used for internal wiring.
17. Terminal blocks and 2 pole MCB shall be provided for Incoming AC supply in each console. Also cutout shall be provided in each console for looping of power supply cable to other console.
18. Spike guard shall be provided in each console for power supply to HMI and printer.
19. Multi pin power socket with On/OFF switch shall be provided in each console.
20. 1 Nos. of LED light with fixture along with door operated switch shall be provided in each console.

**b) Workstation Chair:**

The workstation revolving chairs shall be supplied from one of the following make & model.

- Ryaann make model No. R-446
- Harmony make model No. HR 603
- Godrej make PCH -5D02-STAR R-MID BACK.

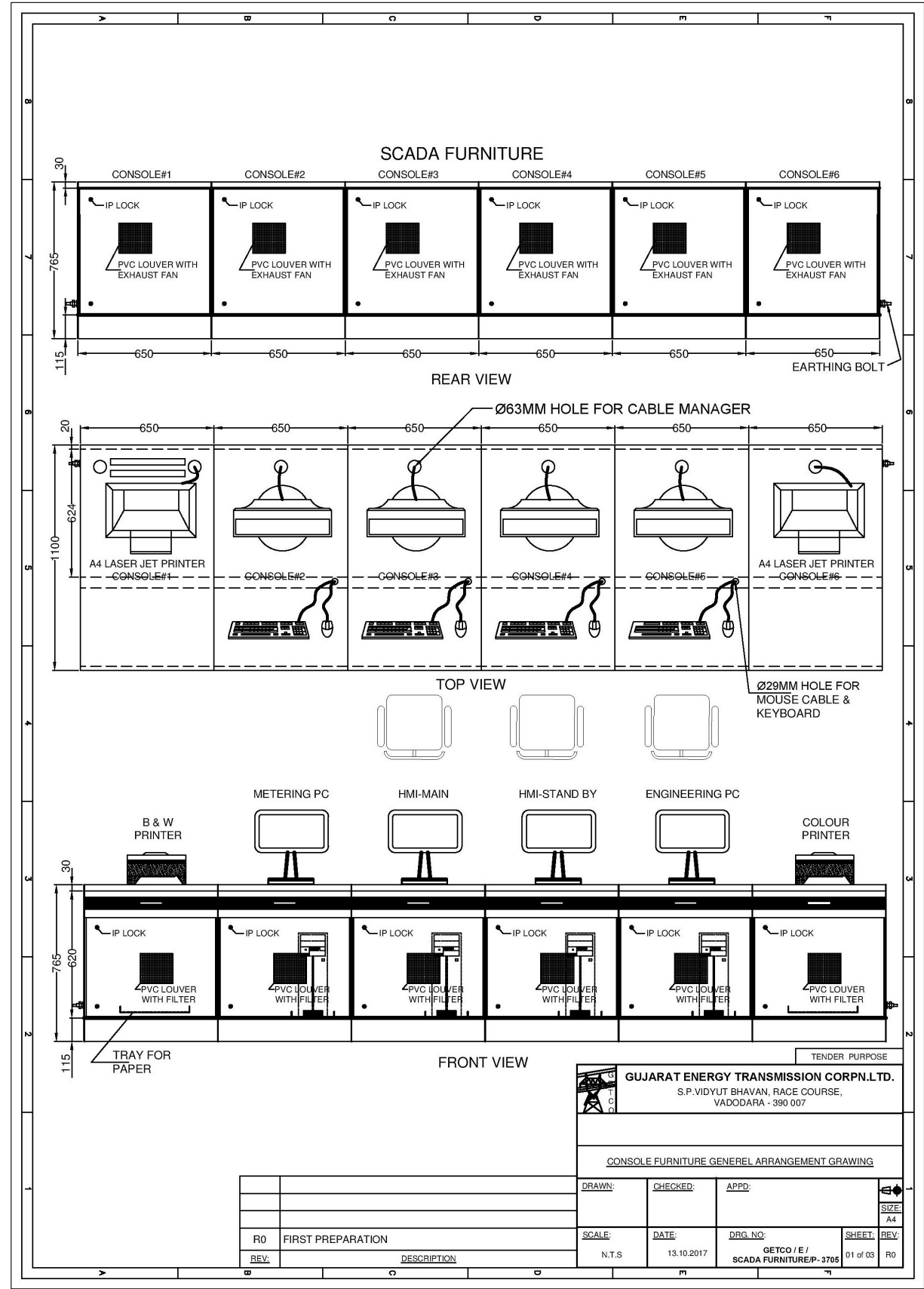
**B. DRAWINGS:**

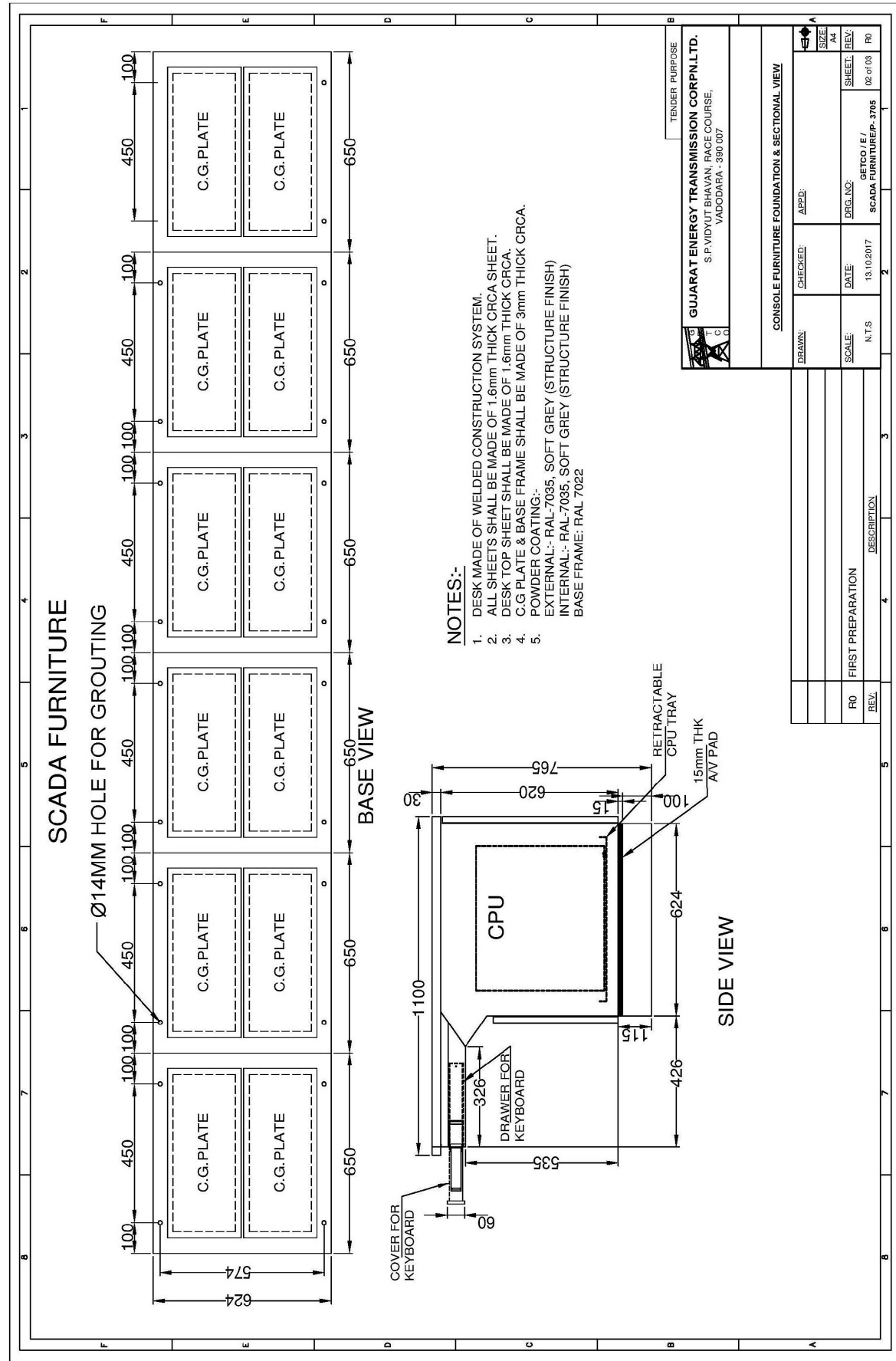
The successful bidder shall submit the following drawings during engineering stage for approval.

- General Arrangement Drawings – Front view, Rear view, Top view, Side view, Sectionalized side view
- Foundation drawing showing cable cutouts and foundation bolt pockets.
- Workstation chair make and model No. drawings showing all dimensions
- Bill of material



**C. INSPECTION:**

Inspection of the material shall be offered only after successful completion of routine testing at the works. The inspection may be carried out by the purchaser at any stage of manufacturing. The purchaser reserves the right to insist for witnessing the acceptance routine testing of bought out items. No material shall be dispatched without inspection and/ or dispatch clearance from GETCO.







	<b>GUJARAT ENERGY TRANSMISSION CORPN.LTD.</b> S.P.VIDYUT BHAVAN, RACE COURSE, VADODARA - 390 007		<b>TENDER PURPOSE</b>	
<b><u>WORKSTATION CHAIR</u></b>				
<b>DRAWN:</b>	<b>CHECKED:</b>	<b>APPR:</b>		
<b>SCALE:</b> N.T.S	<b>DATE:</b> 13.10.2017	<b>DRG. NO:</b> GETCO / E / SCADA FURNITURE- 3705	<b>SHEET:</b> 03 of 03	<b>REV:</b> R0