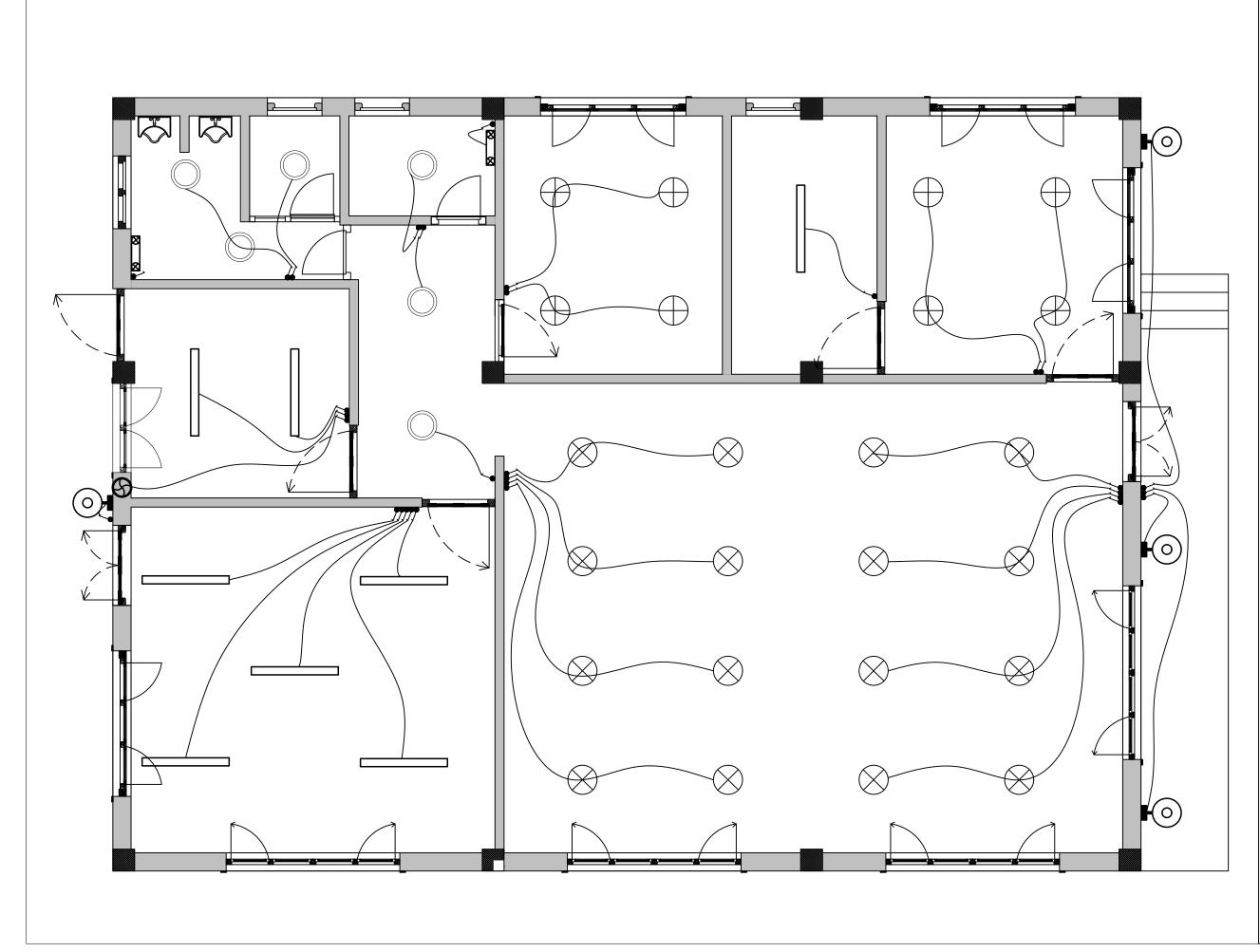
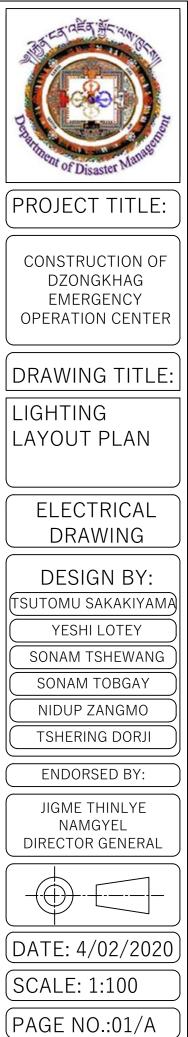
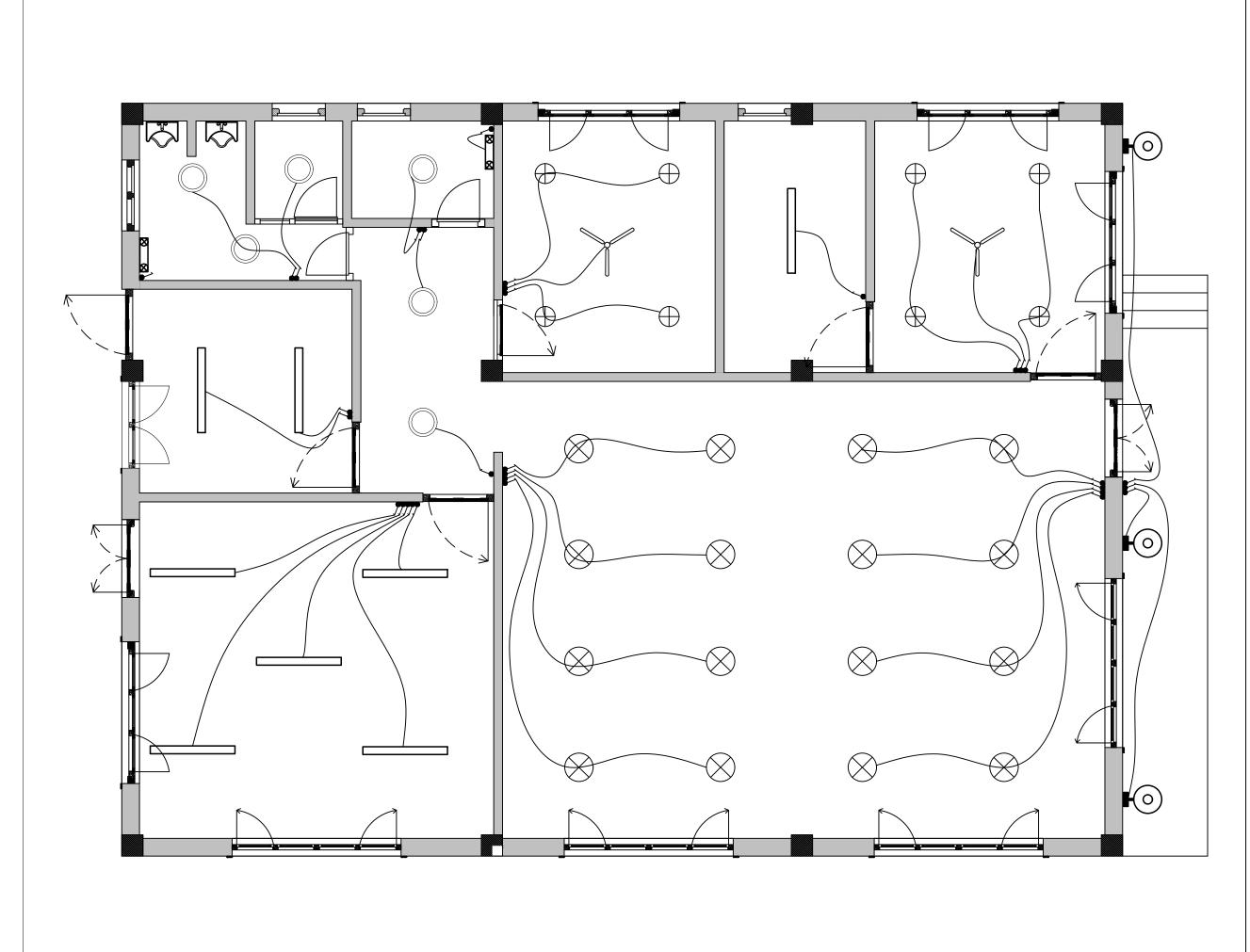
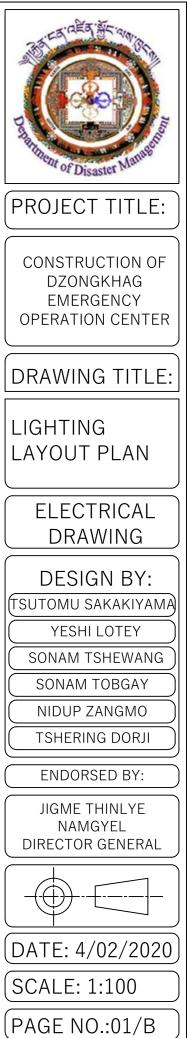
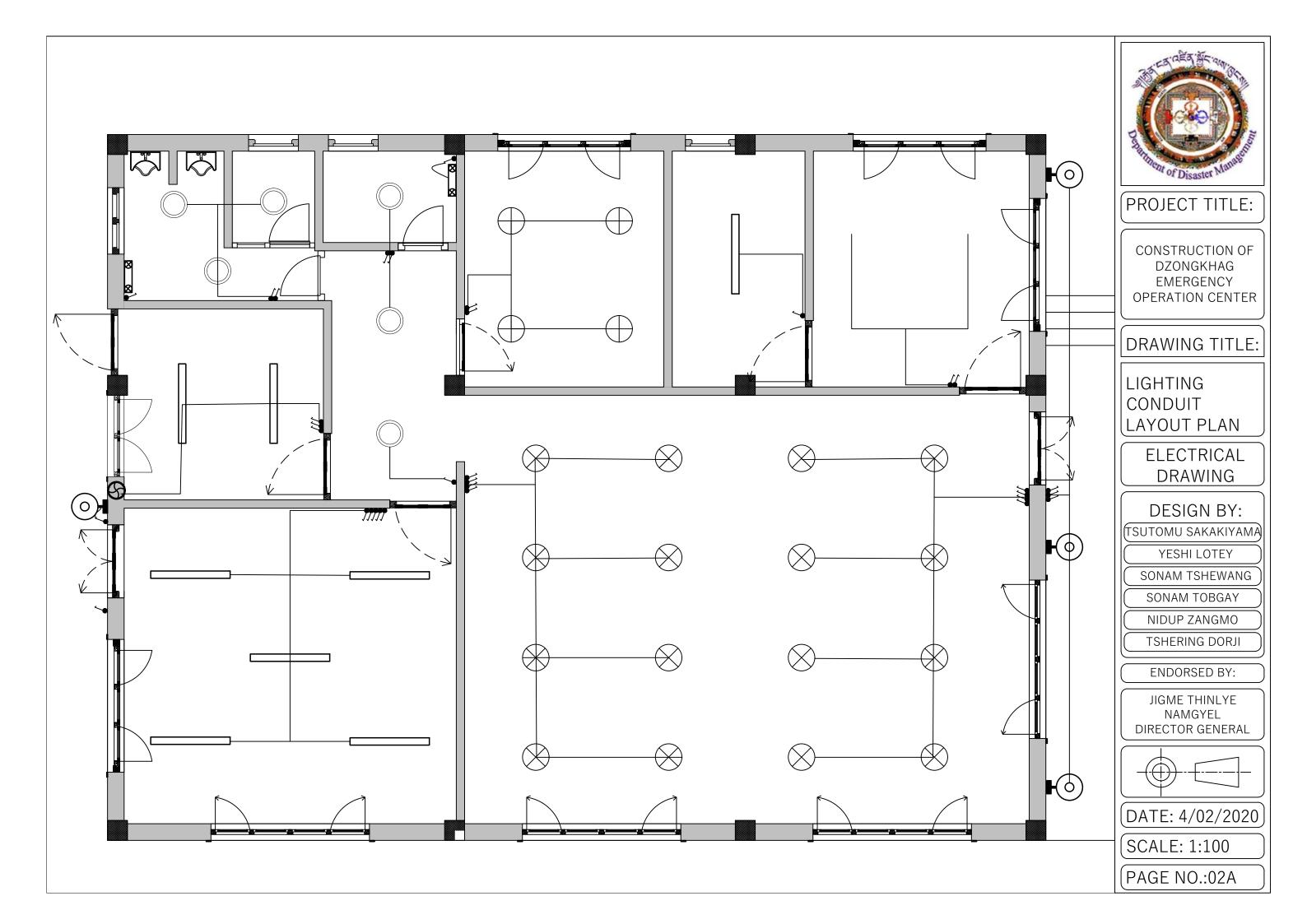
# ELECTRICAL DRAWINGS FOR CONSTRUCTION OF DZONGKHAG EMERGENCY OPERATION CENTER (DEOC)

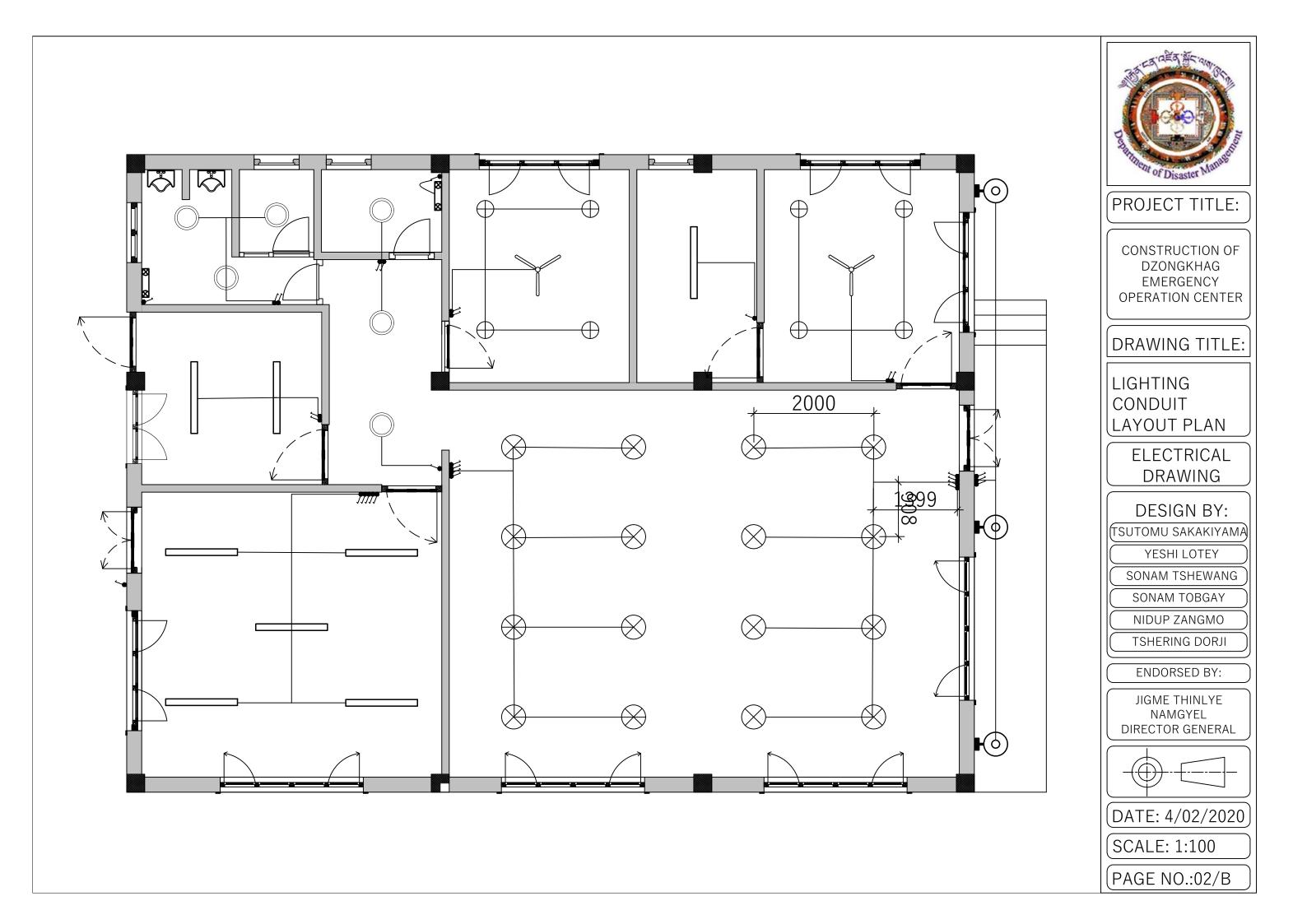


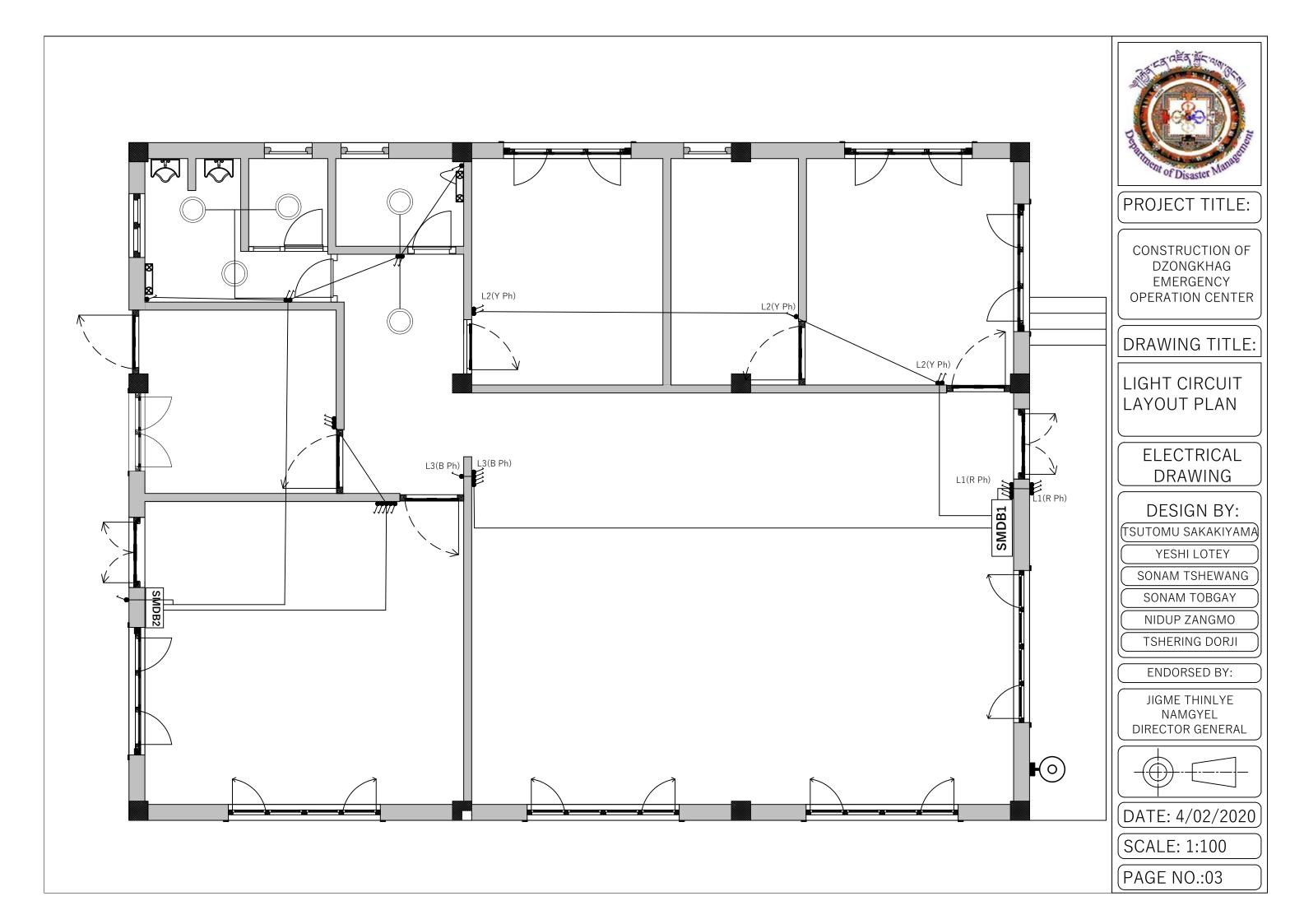


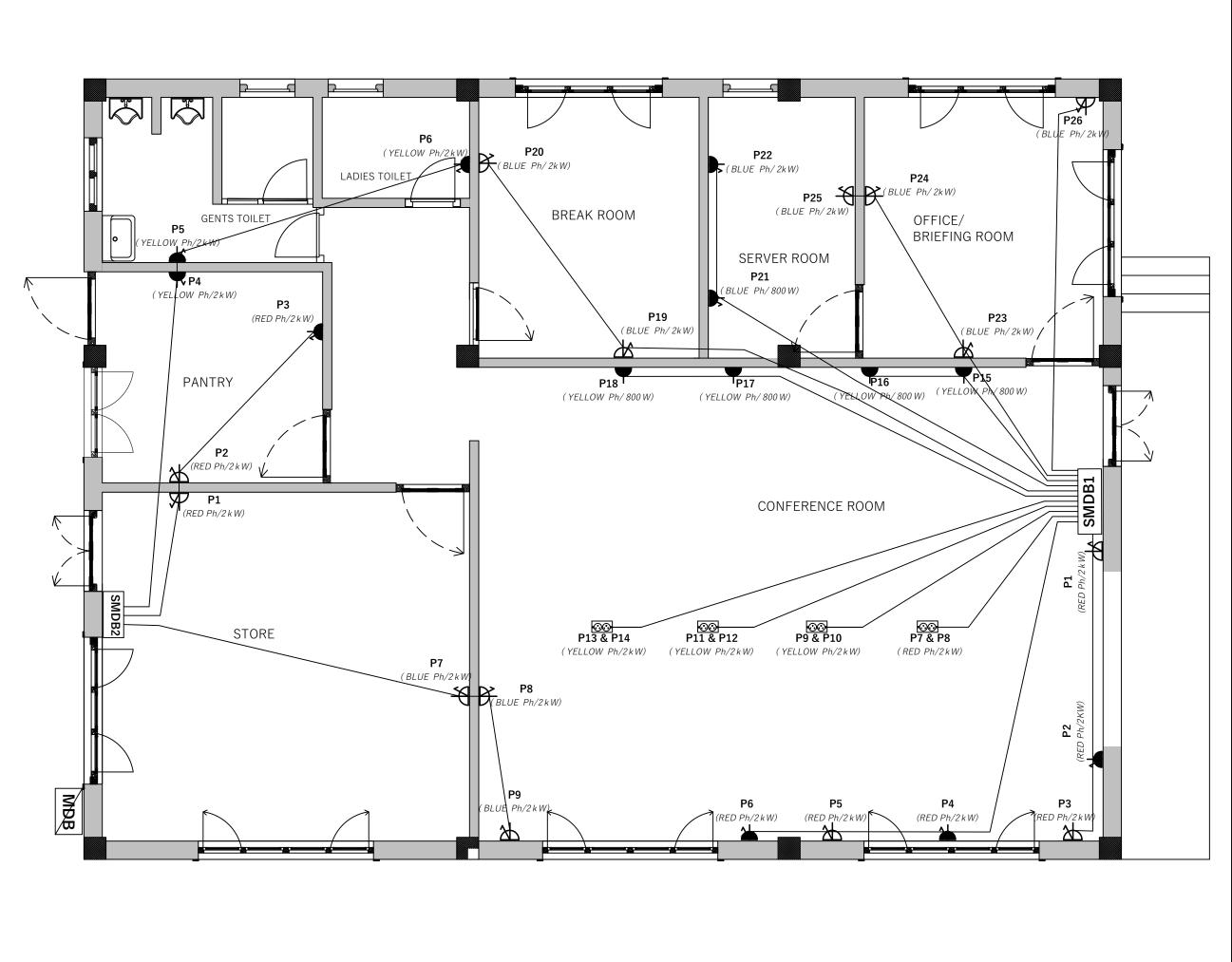


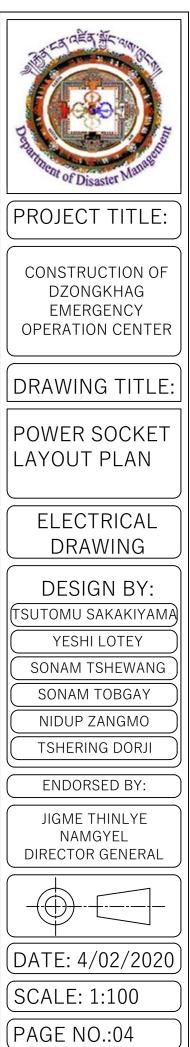


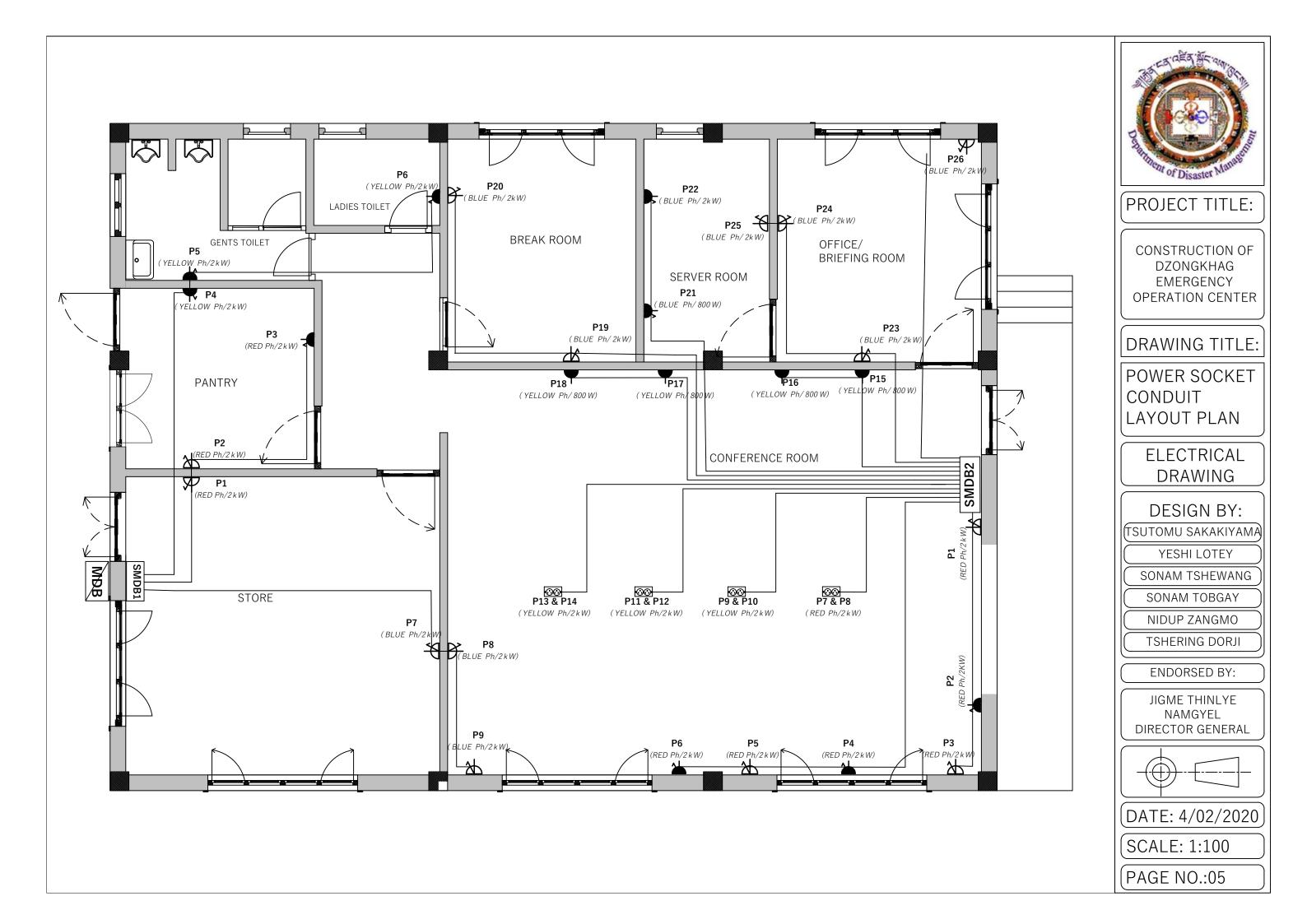


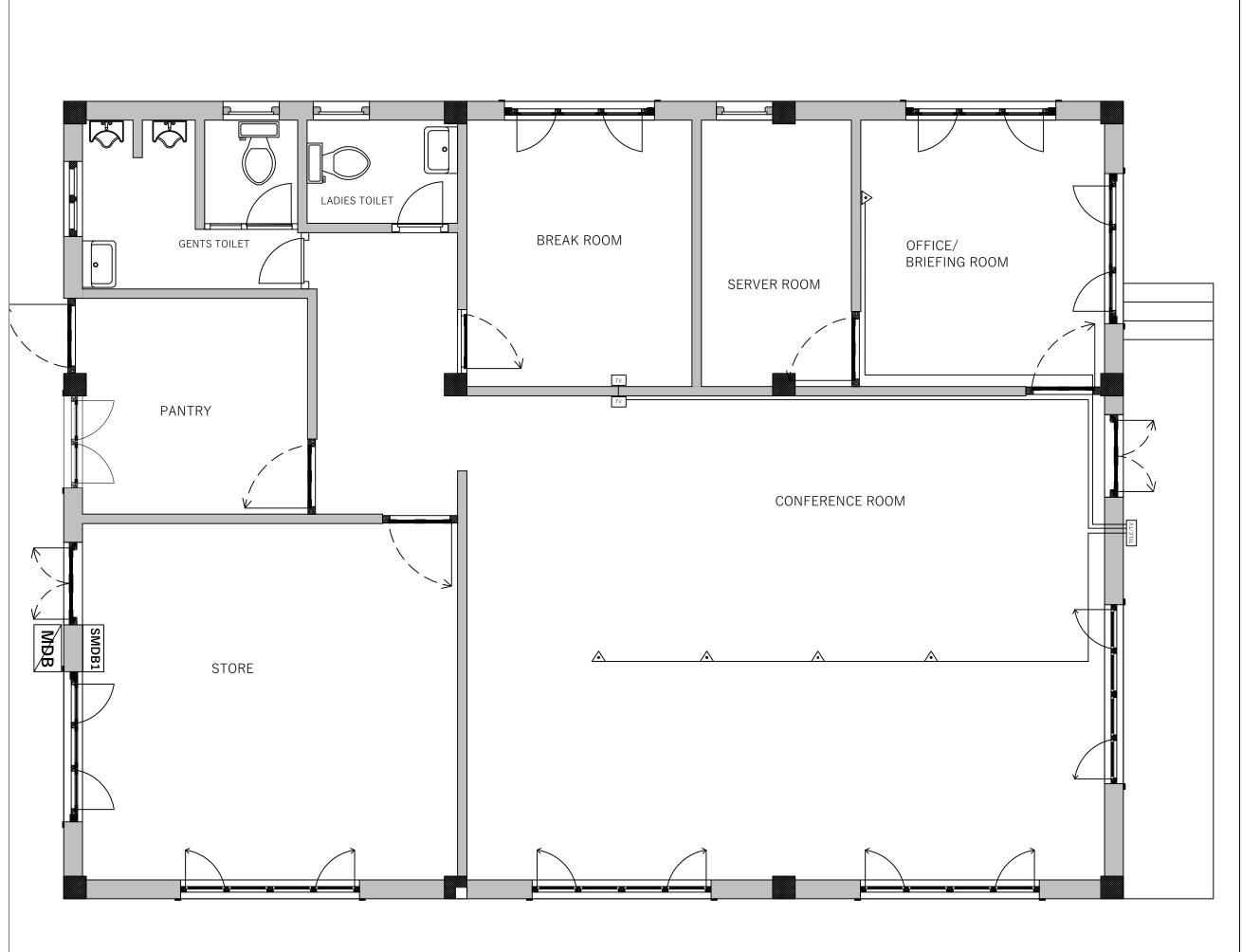


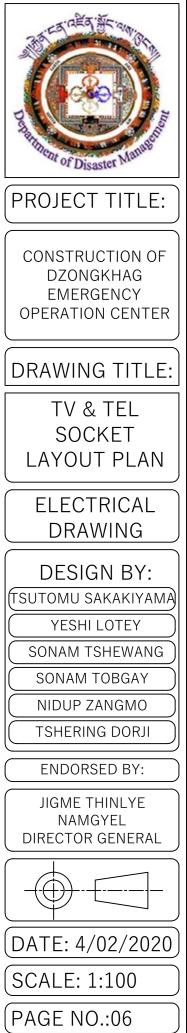




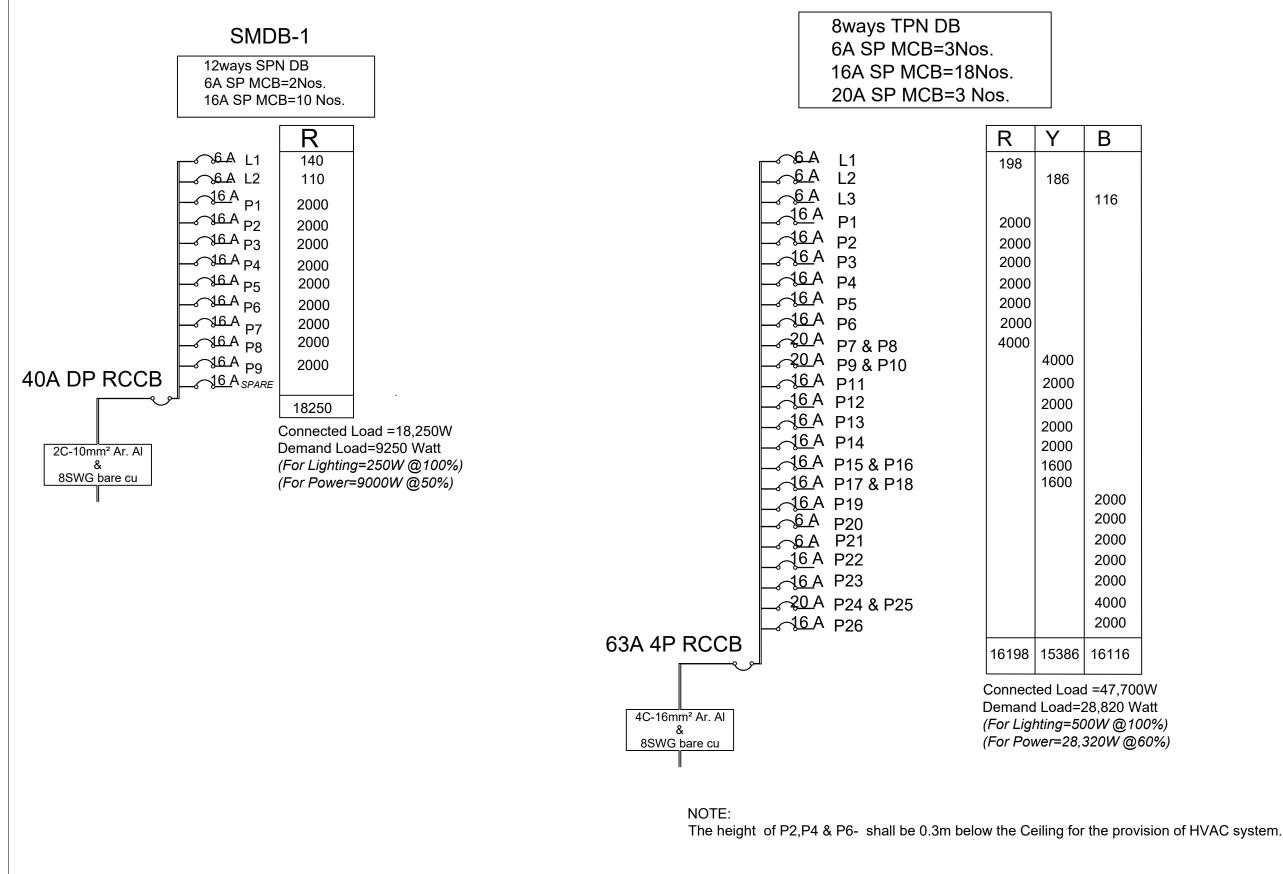


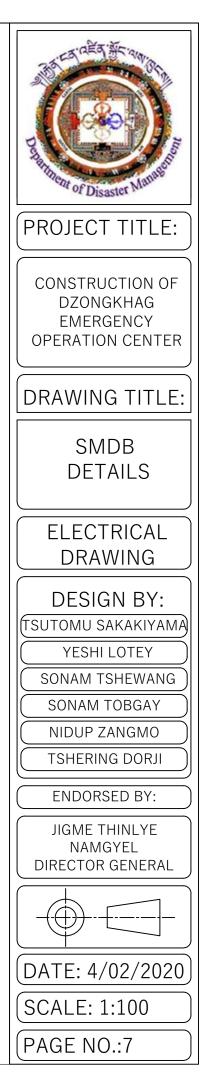




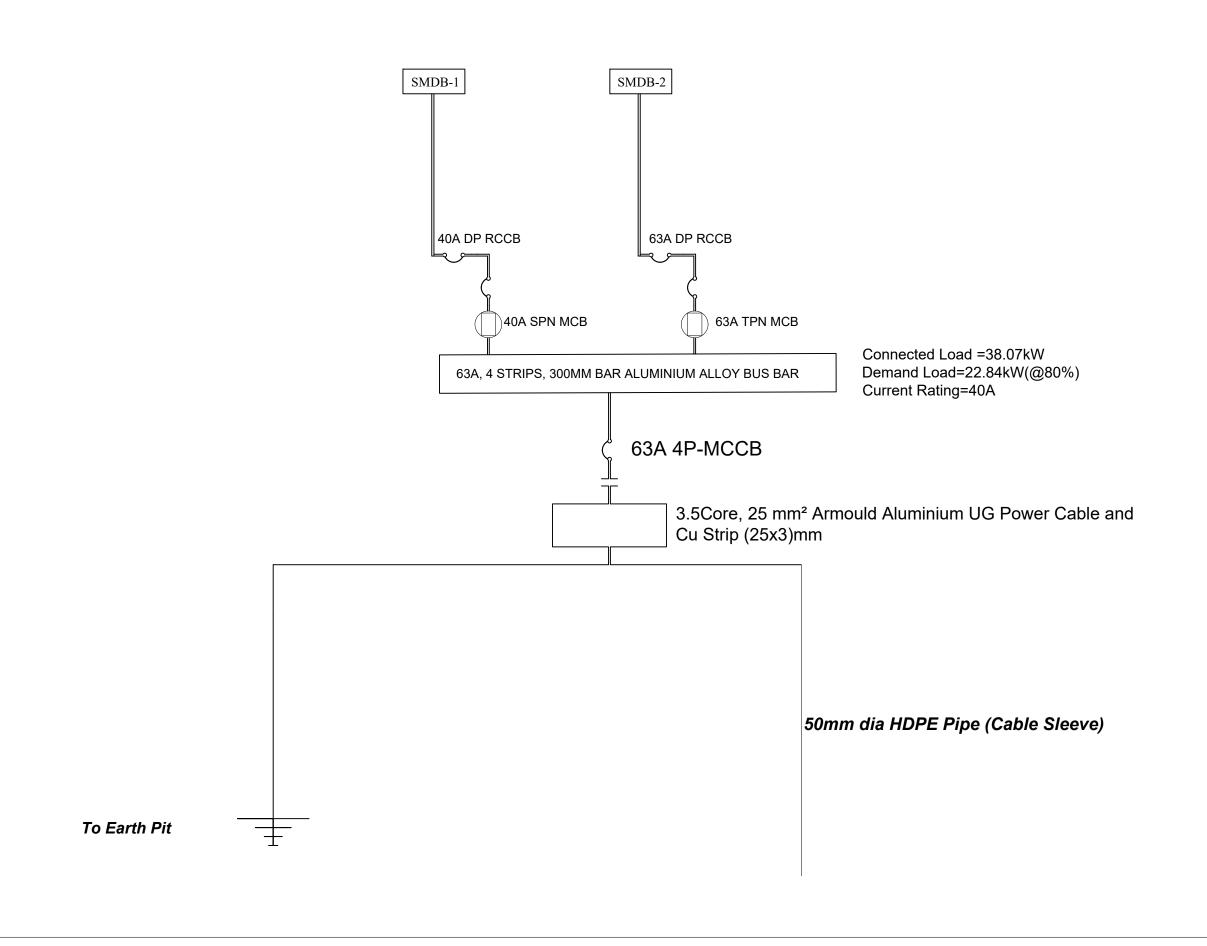


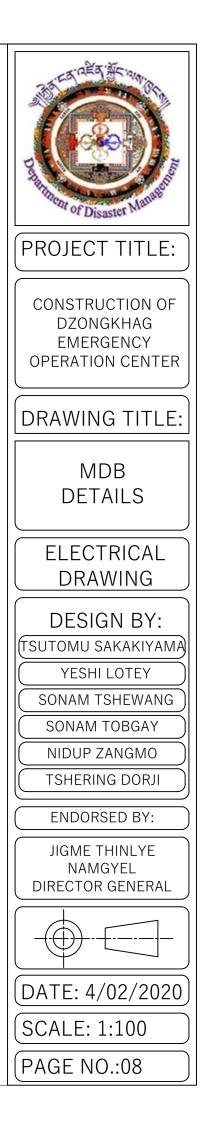
## SUB-MAIN DISTRIBUTION BOARD (SMDB)



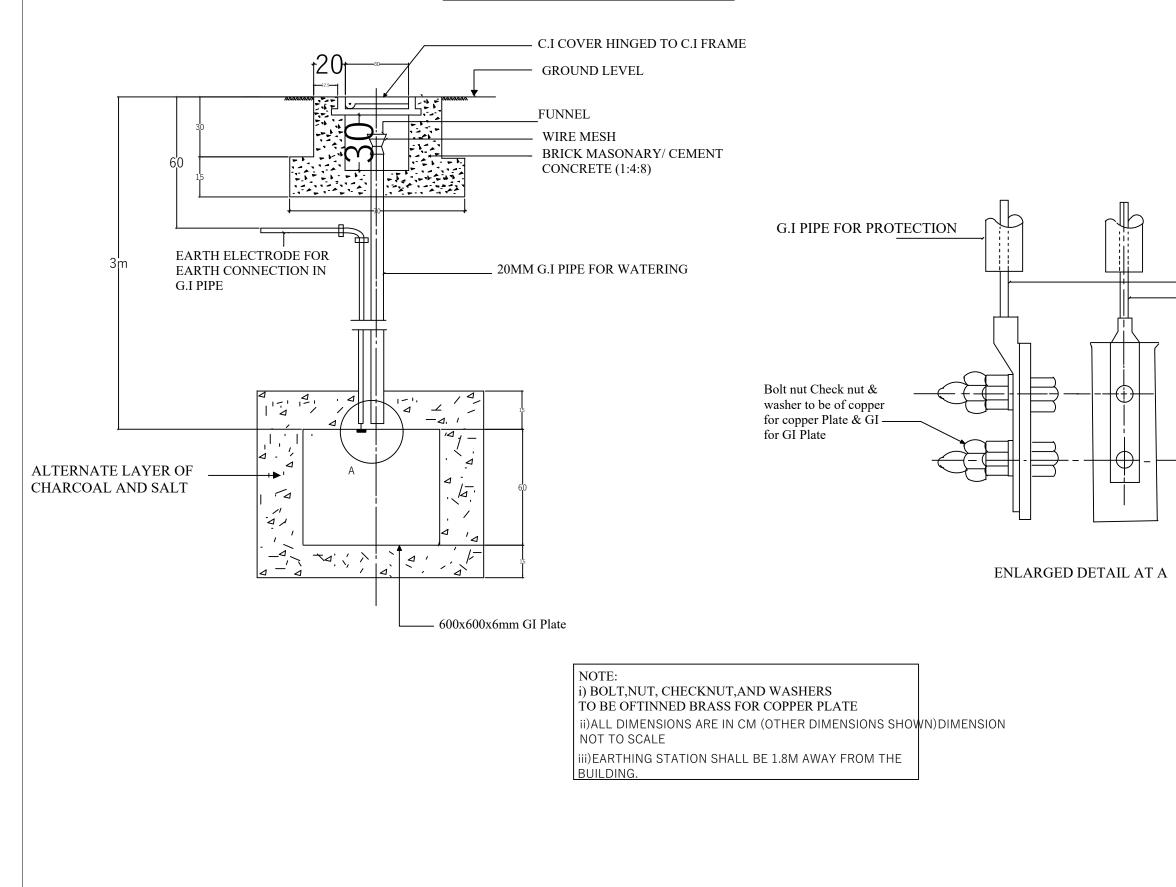


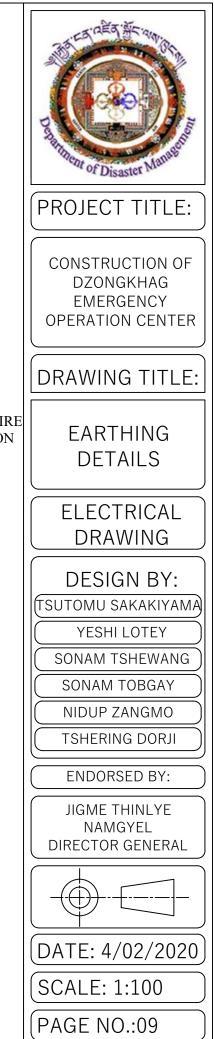
# MAIN DISTRIBUTION PANEL BOARD





#### **METHOD OF PLATE EARTHING**





8SWG G.I WIRE CONNECTION

### LEGENDS

	LED Tube Fitting 20 watt	
<b>@</b>	Wall Bracket Light 18 watt LED	
$\bigcirc$	Surface mounted Downlight 12/18 watt LED	
$\otimes$	Recessed mounted Downlight 21 watt LED	
$\oplus$	Surface mounted Downlight 15/18 watt LED	
<u>80 8</u> 0	Mirror Light 2x5 watt LED fixtures (50mm above Mirror Frame)	
ଷ	Louvred Exhaust Fan, 40W-300mm sweep	
Y	Ceiling Fan 240V AC, 100watt-1200mm sweep, 1400RPM	
4	Modular 6A Switches (1.5M from FFL)	
	Modular 6pin Switch Socket (1.5M from FFL)	
Æ	Modular 16A-6pin Switch Socket (0.4M from FFL)	
	Modular 16A-6pin Switch Socket (1.5M from FFL & 0.3M from ceiling level for HVAC system without switch)	
<b>60</b>	Modular 16A-6pin Switch Socket with Internet point flushed typed	
TV / A	Television and Telephone Socket outlet (Internet outlet is provided along with the Power Socket located in the conference flooring)	
MDB	Main Distribution Panel Board (Wooden made with Locking arrangement)	
SMDB	Sub Main Distribution Board	
	Earthing/Earth Terminal	

#### Note I:

Light point wiring shall be carried out with PVC insulated multistrand copper conductor cables of 1.1kvg : 2x1.5sqmm (phase/neutral).

Light circuit wiring shall be carried out with PVC insulated multistrand copper conductor cables of 1.1kvg : 2x2.5sqmm (phase/neutral) + 1.5sqmm (earth).

16A power circuit wiring shall be carried out with PVC insulated multistrand copper conductor cables of 1.1kvg : 2x4sqmm (phase/neutral) + 2.5sqmm (earth).

6A power sockets in light & power circuits shall be wired with PVC insulated multistrand copper conductor cables of 1.1kvg : 2x2.5sgmm (phase/neutral) + 1.5sgmm (earth).

All cable wiring shall be carried out using phase specific coloured PVC insulation : red/yellow/blue/black (neutral)/green (earth).

All the power sockets shall be operated through individual switches.

All wall mounted fixtures except bulkheads shall be recessed. fixtures mounted on structural columns shall be recessed in pcc finish upto required height.

All ceiling mounted fixtures in the conference hall shall be of recessed type. Metal surfaces of all fixtures (surface & recessed) must be suitably earthed to prevent accidental electrocution hazards.

Drawings only indicate approximate positions of switch boards/sockets. A minimum of 20cm shall be maintained from edges of walls/door frames.

Minimum size of HDPE pipes used shall be 19mmø.

Different conduits shall be used for wiring in different phases.

Dutiable distances must be maintained between electrical/telephone/computer cables with proper bridging at crossovers.

#### Note II:

Telephone wiring shall be woth 0.5 sqmm PVC insulted and sheathed copper conductor

Ducting to be at lease 500mm away from the electrical cables routes.

For the telephone points and internet points on the flooring, RJ-11 sockets shall be used.

The incoming lines shall be brought and connected to incoming side of the terminal cabinet from where he lines to all the rooms commernce



PROJECT TITLE:

CONSTRUCTION OF DZONGKHAG EMERGENCY **OPERATION CENTER** 

### DRAWING TITLE:



ELECTRICAL DRAWING

**DESIGN BY:** TSUTOMU SAKAKIYAMA

YESHI LOTEY

SONAM TSHEWANG

SONAM TOBGAY

NIDUP ZANGMO **TSHERING DORJI** 

ENDORSED BY:

JIGME THINLYE NAMGYEL DIRECTOR GENERAL

