GENERAL NOTES

NOTES:-

01:CABLE ENTRY :TOP&BACK ONLY(UNDRILLED GLAND PLATE-3MM

02:MAIN BUSBAR :PHASE- 1x100x10mm AL.EQ
3PHASE.4WIRE :NEUTRAL-1x100x10mm AL. EQ
:EARTHING-1x50x6mm AL. EQ
:PHASE INDICATION LAMP (RED)
:PHASE INDICATION LAMP (YELLOW)
:PHASE INDICATION LAMP (BLUE)
:VOLT AMPERE METER(DIGITAL)

A

A. FABRICATION

1. ALL DIMENSIONS ARE IN mm.
2. THE PANEL BOARD SHALL BE CUBICAL DESIGN, COMPARTMENTALIZED, FREE STAND, NATURALLY VENTILATED. AS SHOWN IN GENERAL ARRANGEMENT DIAGRAM.
3. THE PANEL BOARD SHALL BE SUITABLE FOR DEGREE OF PROTECTION AS FOLLOWING :
   (A) LT PANEL – IP42 (INDOOR TYPE)
4. THE PANEL SHALL BE FABRICATED WITH :
   (A) LOAD BEARING MEMBERS – 2.0mm CRCA.
   (B) DOOR – 1.6mm CRCA.
   (C) COVERS/PARTITION – STANDARD
   (D) REMOVABLE GLAND PLATE – 3.0mm CRCA
   (E) BASE FRAME – 3.0Mmm HR
   (F) TOLERANCE SHALL BE AS PER IS STANDARDS.

B. PAINTING

1. PRE– TREATMENT OF PANEL BOARD SHALL BE CARRIED OUT BEFORE PAINTING WITH NINE TANK PROCESS i.e DEGREASING, WATER RINSING–I, DERUSTING, WATER RINSING–II, PHOSPHATING, WATER RINSING–III AND PASSIVATION.
2. THE PANEL SHALL BE PAINTED WITH (POWDER COATING)
   (A) ENCLOSURE – **GREY RAL-7032**
   (B) MOUNTING PLATE – ORANGE FOR CRCA SHEET / UNPAINTED FOR GP SHEET
3. POWDER COATING SHALL BETWEEN 60–85 MICRONS.

C. ASSEMBLY

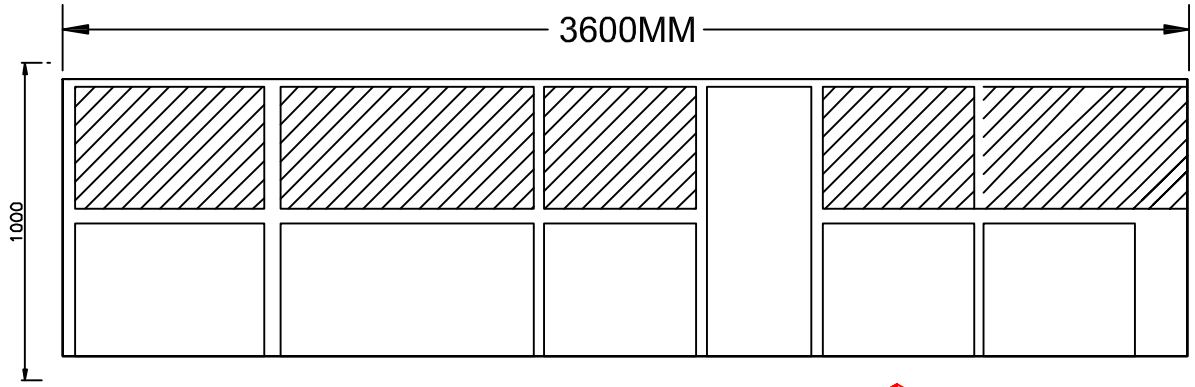
1. THE PANEL BOARD SHALL BE SUITABLE FOR 3PHASE, 4WIRE 415±10%, 50HZ±5%, AC SUPPLY
2. (A). MAIN AL. BUSBAR AND ALL VERTICAL BUS BAR & SDFU/MCCB's/ACB's LINKS SHALL BE PROVIDED OF HIGH CONDUCTIVITY ELECTROLYTIC AL. HIGH STRENGTH AL. ALLOY GRADE E91 E AS PER IS:5082
   (B) ALL VERTICAL & HORIZONTAL LINKS SHALL BE PROVIDED WITH HEAT SHRINKABLE COLOR CODE SLEEVES
3. PU GASKET SHALL BE PROVIDED INSIDE THE DOOR AND ALL TRANSPORT SECTIONS TO MAKE THE DUST & VERMIN PROOF.
4. THE MINIMUM CLEARANCE SHALL BE AS FOLLOWING :
   (A) BETWEEN PHASE TO PHASE --- 25mm
   (B) BETWEEN PHASE TO NEUTRAL --- 20mm
   (C) BETWEEN PHASE TO EARTH --- 20mm
   (D) BETWEEN NEUTRAL TO EARTH --- 20mm
5. BUSBAR SUPPORTS SHALL BE OF NON HYGROSCOPIC DMC/SMC SUPPORTS.

6. WIRING

1. ALL CONTROL WIRING SHALL BE DONE USING 1.1kV WITH Cu. FLEXIBLE (FRLS) WIRE AS UNDER :–
   (A) AC CURRENT CIRCUIT : 2.5 sq. mm Cu. WIRE (RED, YELLOW, BLUE & BLACK COLOUR)
   (B) AC CONTROL CIRCUIT : 1.5 Sq. mm Cu. WIRE (PHASE GREY COLOUR & NEUTRAL BLACK COLOUR)
2. CT SHORTING TERMINAL SHALL BE PROVIDED.
3. ALL THE CONTROL WIRING SHALL BE NEATLY BUNCHED / LAID IN PVC DUCT WITH SNAP ON COVERS.
4. ALL LIVE PART SHALL BE SHROUDED BY BAKELITE/ ACRYLIC/FRP/PVC SHEET.
5. PANEL SHALL BE MANUFACTURING AS PER IEC–60439

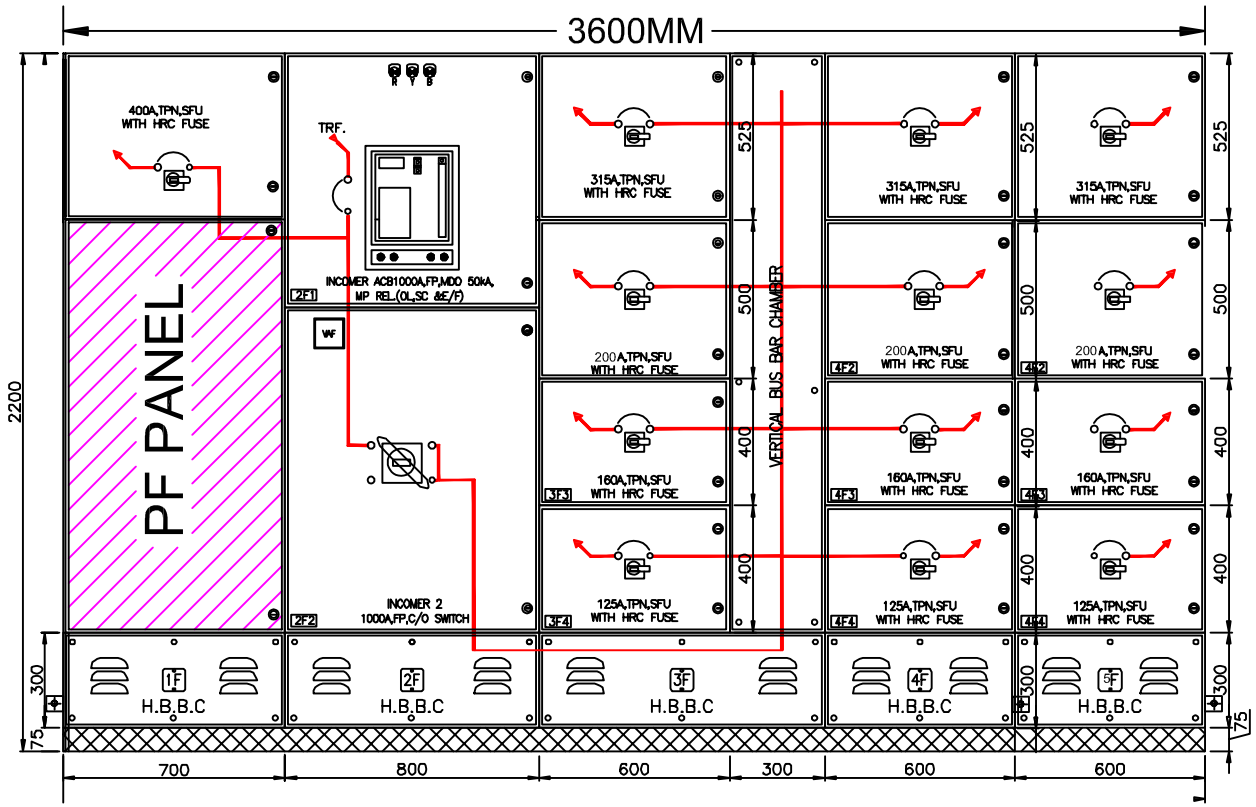
APPROVED MAKES

1	AIR CIRCUIT BREAKER	L&T
2	SDFU	L&T
3	FUSE LINK	L&T
4	CHANGE OVER SWITCH	L&T
5	MCB	L&T
6	VIF METER	SCHENIDER
7	CURRENT TRANSFORMER NYLON CASE/RESIN CAST	AE/MATRIX/NEWTEK
8	INDICATION LIGHT/PUSH BUTTON	L&T

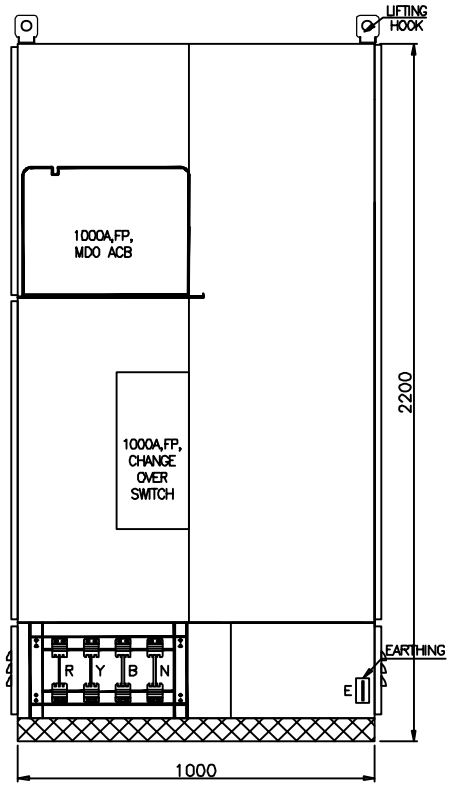


TOP VIEW

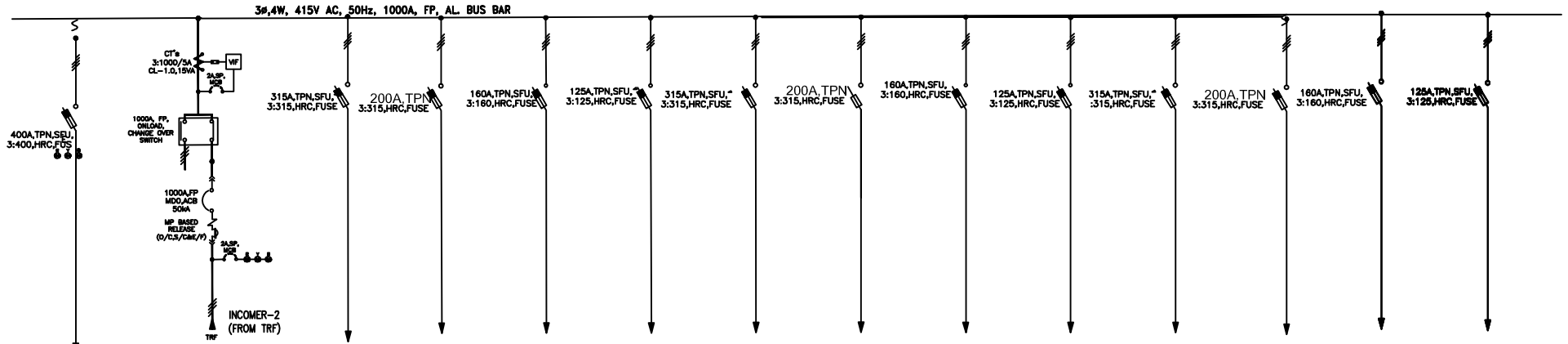
FRONT



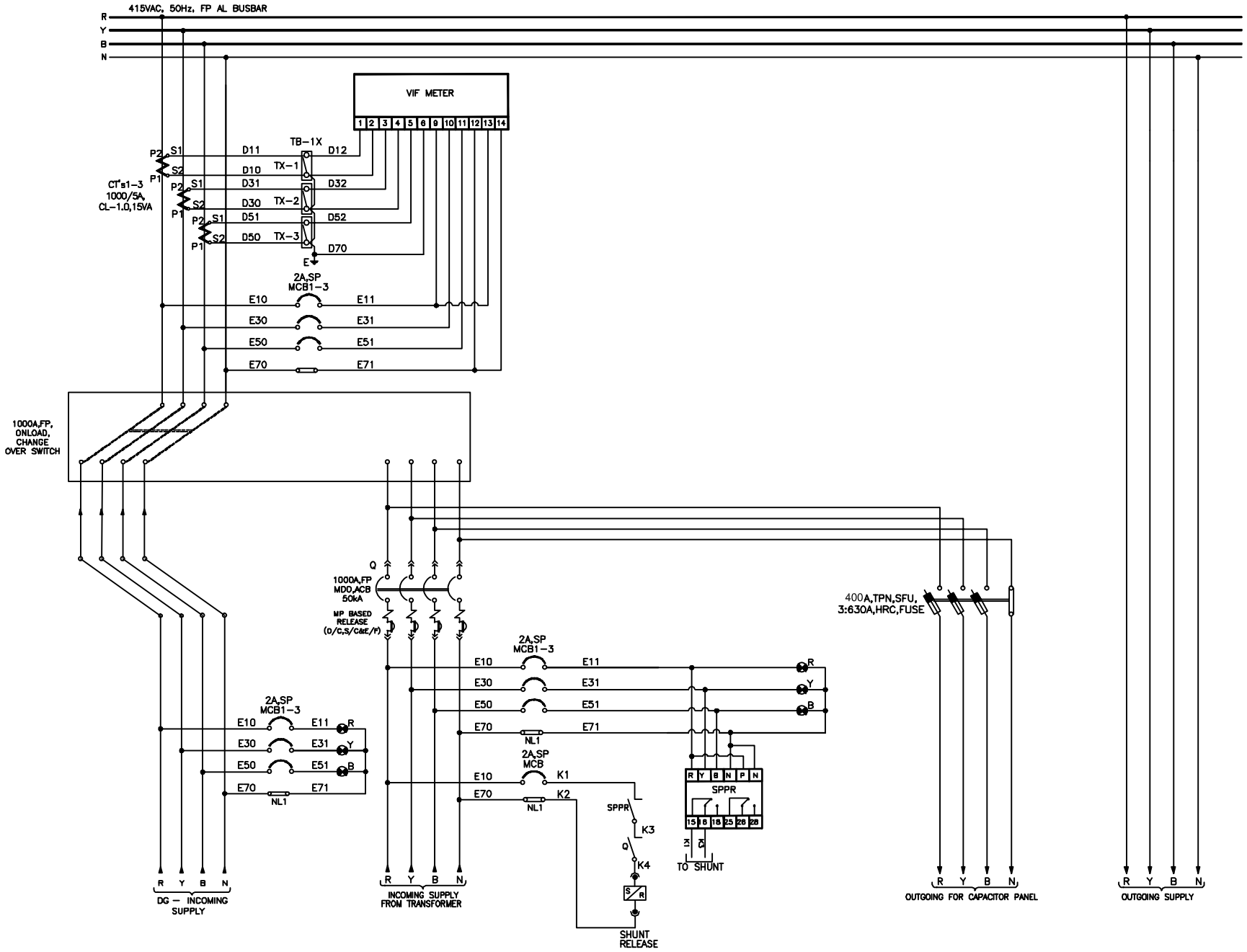
FRONT VIEW



SECTIONAL SIDE VIEW
INCOMER FEEDER



FEEDER NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FEEDER TYPE	SFU-OUTGOING	ACB&SFU- INCOMER	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING	SFU-OUTGOING
FEEDER NAME	TO- CAPACITOR PANEL	INCOMER-2 (FROM TRF)	GROUND FLOOR AHU PANEL	GROUND FLOOR M/C- BD PANEL	GROUND FLOOR UPS	GROUND FLOOR LIGHT-DB	FIRST FLOOR AHU PANEL	FIRST FLOOR M/C- BD PANEL	FIRST FLOOR UPS	FIRST FLOOR LIGHT-DB	SECOND FLOOR AHU PANEL	SECOND FLOOR M/L- BD PANEL	SECOND FLOOR UPS	SECOND FLOOR UTILITY-DB
FEEDER RATING	SFU-400A,	1000A,FP&1000A,FP	315A,SFU	200A,SFU	160A,SFU	125A,SFU	315A,SFU	200A,SFU	160A,SFU	125A,SFU	315A,SFU	200A,SFU	160A,SFU	125A,SFU
FEEDER LOCATION	F-1	1-F2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	F-14
O/G CABLE SIZE														


415VAC, 50Hz, FP AL BUSBAR
R
Y
B
N
VIF METER
1 2 3 4 5 6 9 10 11 12 13 14
TB-1X
CT's1-3
1000/5A,
CL-1.0,15VA
P2 S1
P1 S2
D11
D12
TX-1
D10
D31
D32
TX-2
D30
D51
D52
TX-3
D50
D70
E
2A,SP
MCB1-3
E10
E11
E30
E31
E50
E51
E70
E71
1000A,FP,
ONLOAD,
CHANGE
OVER SWITCH
Q
1000A,FP
MDO,ACB
50kA
MP BASED
RELEASE
(O/C,S/C&E/F)
400A,TPN,SFU,
3:630A,HRC,FUSE
NL1
2A,SP
MCB
K1
K2
SPPR
K3
K4
S
R
SHUNT
RELEASE
R Y B P N
15 16 15 25 26 28
TO SHUNT
DG – INCOMING
SUPPLY
INCOMING SUPPLY
FROM TRANSFORMER
OUTGOING FOR CAPACITOR PANEL
OUTGOING SUPPLY