



**NOTE -**

01. THE BOX SHALL BE MADE FROM 2MM COLD ROLLED SHEET STEEL.
02. ALL SEAMS ARE TO BE CONTINUOUSLY WELDED. THERE SHALL BE NO HOLES OR SOCKETS ON TOP AND SIDES.
03. THE ENCLOSURE OF BOX SHALL MEET HOSE PROOF AND WEATHER PROOF REQUIREMENT.
04. THE ASSEMBLY SHALL BE DESIGNED FOR IP55 AS PER IS 13947
05. SINGLE PIECE NEOPRENE GASKET 6MM THICK OF SHORE HARDNESS 20 & DENSITY 0.49g/cc. SHALL BE PROVIDED IN ALL MATING SURFACES TO ENSURE WATER TIGHT SEALABILITY. CERTIFICATE INDICATING HARDNESS NUMBER, DENSITY AND COMPOSITION SHALL BE FURNISHED ON DEMAND.
06. TERMINAL BLOCKS TO BE SUPPLIED AND MOUNTED BY VENDOR. TERMINAL BLOCKS ARE TO BE MOUNTED HORIZONTALLY.
07. SUITABLE DIN RAIL/BASE FOR MOUNTING TERMINAL BOX SHALL BE PROVIDED. ALL TERMINALS ARE TO BE IDENTIFIED BY SUITABLE IDENTIFICATION LABEL.
08. THE STRIP SHALL BE OF PVC WHITE BACKGROUND WITH BLACK LETTERS.
09. TERMINALS ARE TO BE IDENTIFIED BY SUITABLE IDENTIFICATION LABEL OR DIN RAIL BY MEANS OF SUITABLE SCREWS AND CLAMPS AT BOTH SIDES OF INCOMER TERMINAL BLOCK AND ALSO AT BOTH SIDES OF OUTGOING TERMINAL BLOCK ENDS.
07. REMOVABLE GLAND PLATE OF 3MM THICK IS TO BE PROVIDED WITH NEOPRENE GASKET OF 3mm THICK OF SHORE HARDNESS 30
08. BOLTS AND NUTS REQUIRED FOR MOUNTING THE LOCAL CONTROL BOXES AND FITTINGS ARE TO BE ELECTRO GALVANISED AND SUPPLIED BY THE VENDOR.
09. INTERNAL LOOPING SHALL BE MADE WITH 1100V GRADE PVC INSULATED STRANDED COPPER
10. MATERIALS FOR CONTINUOUS HINGE PIN, RIDER CLAMP, RIDER BOLT, RIDER SPRING, WASHERS, ROLLER LIP SHALL BE PROVIDED AROUND THREE SIDES OF DOOR AND AROUND ALL SIDES OPEN CLOSURE ARE REQUIRED TO BE OF 316 STAINLESS STEEL FOR WITHSTANDING CORROSION.
11. OPENING THIS LIP IS TO INCREASE THE STRENGTH AND TO KEEP DIRT AND LIQUID FROM DROPPING INTO THE ENCLOSURE WHEN THE DOOR IS OPENED.
12. DOOR SHALL BE SUITABLE FOR 180° OPENING.
13. EARTHING BOLTS AND NUTS OF ROSE COURTESY WASHER SHALL BE PROVIDED AT OPPOSITE POINTS ON OUTSIDE OF THE LOCAL CONTROL BOX BODY WITH EARTH SYMBOL. MADE OF ALUMINIUM. NON RUSTING 3 PLY LAMICOD OR ANODISED ALUMINIUM PLATE NAME PLATE WITH SUITABLE INSCRIPTION SHALL BE PROVIDED WITH CLEAN TRANSPARENT SHEET AS FOLLOWS :

15. ALL THE TERMINALS BLOCKS SHALL BE PROVIDED WITH CRIMPING TYPE LUGS FOR INCOMING AND OUTGOING CABLES AS RECOMMENDED IN TABLE-1.

16. LUGS SHALL BE PROVIDED FOR EACH INCOMING AND OUTGOING TERMINALS.SUITABLE NUMBER OF LUGS FOR INTERNAL WIRING SHALL BE PROVIDED.

17. TYPE NUMBER INDICATED IS FOR ELMEX TERMINAL BLOCK AND DOWELL LUG.EQUIVALENT TYPE NOCAN BE USED FOR OTHER NTPC APPROVED MAKES.

TABLE-1

| INCOMING      |                    | OUTGOING       |                            |
|---------------|--------------------|----------------|----------------------------|
| CABLE SIZE(A) | TERMINAL BLOCK(TB) | CABLE SIZE(CU) | TERMINAL BLOCK (TB2 & TB3) |
| 3C-50 SQ MM   | Q15-18             | 2C-2.5         | Q1-19                      |
| 3C-50 SQ MM   | Q17-10             |                |                            |

18. THE LOCAL CONTROL BOX SHALL BE HOT DIP GALVANISED. THE MASS OF ZINC COATING SHALL NOT BE LESS THAN 610 GM/SQM. THE MINIMUM COATING THICKNESS ON THE LOCAL CONTROL BOX SHALL NOT BE LESS THAN 86 MICRONS.

19. NICKEL CHROMIUM PLATED BRASS HEAVY DUTY DOUBLE COMPRESSION CABLE GLANDS SHALL BE PROVIDED AND FIXED IN GLAND PLATE BY VENDOR. 2 NOS. OF GLANDS SUITABLE FOR INCOMING CABLES INDICATED ABOVE CBWOS OR EQUIVALENT SHALL BE PROVIDED & 12 NOS. GLANDS SUITABLE FOR 2C-2.5 SQMM CBWOS OR EQUIVALENT.

20. FOR EXTERNAL CABLE TERMINATION, TWO NUMBERS LUGS SHALL BE FITTED AND SUPPLIED IN EACH TERMINAL. THE TB SHALL BE SUITABLE FOR TERMINATING TWO LUGS IN A SINGLE BLOCK FOR BOTH INCOMING OUT OUTGOING CABLES.

21. NAME PLATE INDICATING NAME OF THE SUPPLIER SHALL BE PROVIDED ON THE DOOR.

22. THE NAME PLATE SHALL CONTAIN VENDOR DETAILS LIKE YEAR OF MANUFACTURE, WEIGHT OF THE JOB, BHEL PURCHASE ORDER NUMBER AND DATE.

23. VOLTAGE GRADE OF TERMINAL BLOCK SHALL BE 1000V.

24. MAKE OF COMPONENTS:

a) FSU  
b) POWER CONTACTOR(40A)  
c) TERMINAL BLOCK  
d) NEUTRAL LINK (20A)  
e) 415/110V/150VA CST GLASS 'B'  
f) INDICATING LAMP(S)LED TYPE)  
g) CABLE GLAND  
h) CABLE LUG  
i) CURRENT TRANSFORMER  
j) AMMETER

25. THE FSU SHALL BE SUITABLY FITTED AND WIRED TAKING CARE OF ELECTRICAL CLEARANCES BY VENDOR

26. ALL COMPONENTS SHALL BE IDENTIFIED/LABELLED USING NON -RUSTING 3 PLY LAMICOD OR ANODISED ALUMINIUM PLATE.

27. ALL INTERNAL POWER WIRING SHALL BE 1100V, GRADE PVC INSULATED MULTISTRANDED 6 SQ.MM COPPER CONDUCTOR WIRE(S) CERTIFIED MAKE).

28. ALL CONTROL WIRING SHALL BE 1100V, GRADE PVC INSULATED MULTISTRANDED 2.5 SQ.MM COPPER CONDUCTOR WIRE(S) CERTIFIED MAKE).

29. INSTEAD OF WELD FLAT ARRANGEMENT,ALTERNATE ARRANGEMENT OF FIXING THE GLAND PLATE TO THE BOTTOM OF THE JUNCTION BOX BY SUITABLE STEELING PLATED RIVET NUTS IS ALSO ACCEPTABLE IN WHICH CASE THE MAKE OF RIVET NUT AND FIXING ARRANGEMENT IS SUBJECT TO BHEL APPROVAL.MAKE SHALL BE BOLDHOFF/GERMANY OR EQUIVALENT.

30. AMMETER, AMMETER SELECTOR SWITCH,INDICATING LAMPS AND PPS SHALL BE MOUNTED ON THE DOOR.

31. INDICATING LAMPS (LED TYPE) SHALL BE 'UNIVERSAL' TYPE SUITABLE FOR AC/DC.

32. AMMETER SHALL BE 96SQ.MM X 96SQ.MM,0 TO 40 Amps.

33. CT SHALL BE SUITABLE FOR 40/1A, 5VA, CLASS 1,CAST RESIN TYPE AS PER LATEST IS STANDARDS & PROVIDED WITH NEUTRAL LINKS.

34. TWO NOS OF CABLE GLANDS FOR INCOMING CABLES. TB-1 SHALL BE SUITABLE FOR TERMINATING THE SAME ALONG WITH ATC LUGS OF CBWOS (COMET OR ECV) SIZE SHALL BE FITTED IN AS.

35. THE DIMENSIONS INDICATED FOR LOCAL CONTROL BOX FOR SUPPORT HEATER IS MINIMUM & TENTATIVE. IF DIMENSIONS NEED TO BE INCREASED FOR SATISFACTORY OPERATION / MAINTENANCE TO ACCOMMODATE ALL COMPONENTS,THE SAME SHALL BE TAKEN CARE BY VENDOR IN THEIR OFFER SUITABLY.

36. TWO NOS OF EARTH TERMINAL SHALL BE PROVIDED.

**LEGEND**

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SS - SELECTOR SWITCH

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TB - TERMINAL BLOCK ASSEMBLY

KI - POWER CONTACTOR(40A),AC 3 Rating

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PB - TEST PUSH BUTTON.

D - DIODE

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CT - CT3 - AMMETER

**LEGEND**

FSU (63A) - FUSE SWITCH (POWER-3P)

SS - SELECTOR SWITCH

CST1,2(CL-'B') - CONTROL SUPPLY TRANSFORMER 415/110V/150VA.

TB - TERMINAL BLOCK ASSEMBLY

KI - POWER CONTACTOR(40A),AC 3 Rating

L1 - L4 - INDICATING LAMPS(CLUSTERED LED TYPE)

PB - TEST PUSH BUTTON.

D - DIODE

LNK - NEUTRAL LINK

ASS - AMMETER SELECTOR SWITCH

CT - CT3 - AMMETER

**LEGEND**

FSU (63A) - FUSE SWITCH (POWER-3P)

SS - SELECTOR SWITCH

CST1,2(CL-'B') - CONTROL SUPPLY TRANSFORMER 415/110V/150VA.

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LNK - NEUTRAL LINK