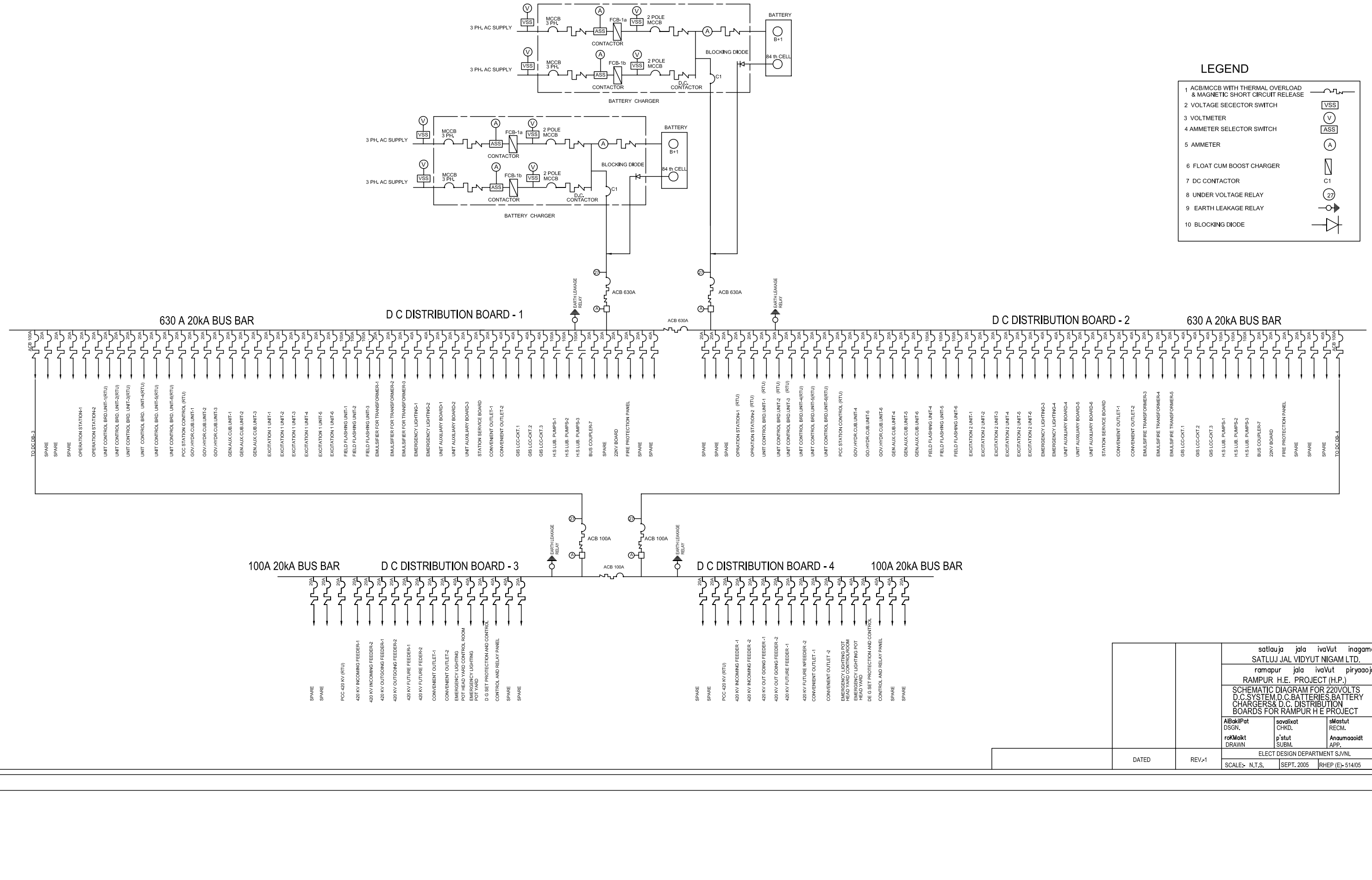
3 PH. AC SUPPLY
MCCB 3 PH.
FCB-1a
2 POLE MCCB
CONTACTOR
BATTERY
B+1
84 th CELL
BLOCKING DIODE
FCB-1b
D.C. CONTACTOR
C1
BATTERY CHARGER
ACB 630A
EARTH LEAKAGE RELAY
D C DISTRIBUTION BOARD - 1
D C DISTRIBUTION BOARD - 2
630 A 20kA BUS BAR
ACB 100A
D C DISTRIBUTION BOARD - 3
D C DISTRIBUTION BOARD - 4
100A 20kA BUS BAR
TO DC DB-3
TO DC DB-4
SPARE
PCC 420 KV (RTU)
420 KV INCOMING FEEDER-1
420 KV INCOMING FEEDER-2
420 KV OUTGOING FEEDER-1
420 KV OUTGOING FEEDER-2
420 KV FUTURE FEEDER-1
420 KV FUTURE FEEDER-2
CONVENIENT OUTLET-1
CONVENIENT OUTLET-2
EMERGENCY LIGHTING POT HEAD YARD CONTROLROOM
EMERGENCY LIGHTING POT YARD
D G SET PROTECTION AND CONTROL
CONTROL AND RELAY PANEL
OPERATION STATION-1
OPERATION STATION-2
UNIT CONTROL BRD.UNIT-1(RTU)
UNIT CONTROL BRD. UNIT-2(RTU)
UNIT CONTROL BRD. UNIT-3(RTU)
UNIT CONTROL BRD. UNIT-4(RTU)
UNIT CONTROL BRD. UNIT-5(RTU)
UNIT CONTROL BRD. UNIT-6(RTU)
PCC STATION CONTROL (RTU)
GOV.HYDR.CUB.UNIT-1
GOV.HYDR.CUB.UNIT-2
GOV.HYDR.CUB.UNIT-3
GEN.AUX.CUB.UNIT-1
GEN.AUX.CUB.UNIT-2
GEN AUX.CUB.UNIT-3
EXCITATION 1 UNIT-1
EXCITATION 1 UNIT-2
EXCITATION 1 UNIT-3
EXCITATION 1 UNIT-4
EXCITATION 1 UNIT-5
EXCITATION 1 UNIT-6
FIELD FLASHING UNIT-1
FIELD FLASHING UNIT-2
FIELD FLASHING UNIT-3
EMULSIFIER FOR TRANSFORMER-1
EMULSIFIER FOR TRANSFORMER-2
EMULSIFIER FOR TRANSFORMER-3
EMERGENCY LIGHTING-1
EMERGENCY LIGHTING-2
UNIT AUXILIARY BOARD-1
UNIT AUXILIARY BOARD-2
UNIT AUXILIARY BOARD-3
STATION SERVICE BOARD
CONVENIENT OUTLET-1
CONVENIENT OUTLET-2
GIS LCC-CKT.1
GIS LCC-CKT.2
GIS LCC-CKT.3
H.S LUB. PUMPS-1
H.S LUB. PUMPS-2
H.S LUB. PUMPS-3
BUS COUPLER-7
220V BOARD
FIRE PROTECTION PANEL
OPRATION STATION-1 (RTU)
OPRATION STATION-2 (RTU)
UNIT CONTROL BRD.UNIT-1 (RTU)
UNIT CONTROL BRD.UNIT-2 (RTU)
UNIT CONTROL BRD.UNIT-3 (RTU)
UNIT CONTROL BRD.UNIT-4(RTU)
UNIT CONTROL BRD.UNIT-5(RTU)
UNIT CONTROL BRD.UNIT-6(RTU)
GO.HYDR.CUB.UNIT-4
GO.HYDR.CUB.UNIT-5
GO.HYDR.CUB.UNIT-6
GEN.AUX.CUB.UNIT-4
GEN.AUX.CUB.UNIT-5
GEN.AUX.CUB.UNIT-6
FIELD FLASHING UNIT-4
FIELD FLASHING UNIT-5
FIELD FLASHING UNIT-6
EXCITATION 2 UNIT-1
EXCITATION 2 UNIT-2
EXCITATION 2 UNIT-3
EXCITATION 2 UNIT-4
EXCITATION 2 UNIT-5
EXCITATION 2 UNIT-6
EMERGENCY LIGHTING-3
EMERGENCY LIGHTING-4
UNIT AUXILIARY BOARD-4
UNIT AUXILIARY BOARD-5
UNIT AUXILIARY BOARD-6
STATION SERVICE BOARD
CONVENIENT OUTLET-1
CONVENIENT OUTLET-2
EMULSIFIRE TRANSFORMER-3
EMULSIFIRE TRANSFORMER-4
EMULSIFIRE TRANSFORMER-5
GIS LCC-CKT.1
GIS LCC-CKT.2
GIS LCC-CKT.3
H.S LUB. PUMPS-1
H.S LUB. PUMPS-2
H.S LUB. PUMPS-3
BUS COUPLER-7
220V BOARD
FIRE PROTECTION PANEL
SPARE
PCC 420 KV (RTU)
420 KV INCOMING FEEDER -1
420 KV INCOMING FEEDER -2
420 KV OUT GOING FEEDER -1
420 KV OUT GOING FEEDER -2
420 KV FUTURE FEEDER -1
420 KV FUTURE MFEEDER -2
CONVENIENT OUTLET -1
CONVENIENT OUTLET -2
EMERGENCY LIGHTING POT HEAD YARD CONTROLROOM
EMERGENCY LIGHTING POT HEAD YARD
DE G SET PROTECTION AND CONTROL
CONTROL AND RELAY PANEL
LEGEND
1 ACB/MCCB WITH THERMAL OVERLOAD & MAGNETIC SHORT CIRCUIT RELEASE
2 VOLTAGE SECECTOR SWITCH
3 VOLTMETER
4 AMMETER SELECTOR SWITCH
5 AMMETER
6 FLOAT CUM BOOST CHARGER
7 DC CONTACTOR
8 UNDER VOLTAGE RELAY
9 EARTH LEAKAGE RELAY
10 BLOCKING DIODE
satlauja jala ivaVut inagama
SATLUJ JAL VIDYUT NIGAM LTD.
ramapur jala ivaVut piryaojanaa
RAMPUR H.E. PROJECT (H.P.)
SCHEMATIC DIAGRAM FOR 220VOLTS D.C.SYSTEM,D.C.BATTERIES,BATTERY CHARGERS& D.C. DISTRIBUTION BOARDS FOR RAMPUR H E PROJECT
AiBakilPat DSGN.
savalixat CHKD.
sMastut RECM.
roKMaikt DRAWN
p`stut SUBM.
Anaumaaoidt APP.
DATED
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ELECT DESIGN DEPARTMENT SJVNL
SCALE:- N.T.S.
SEPT. 2005
RHEP (E)- 514/05