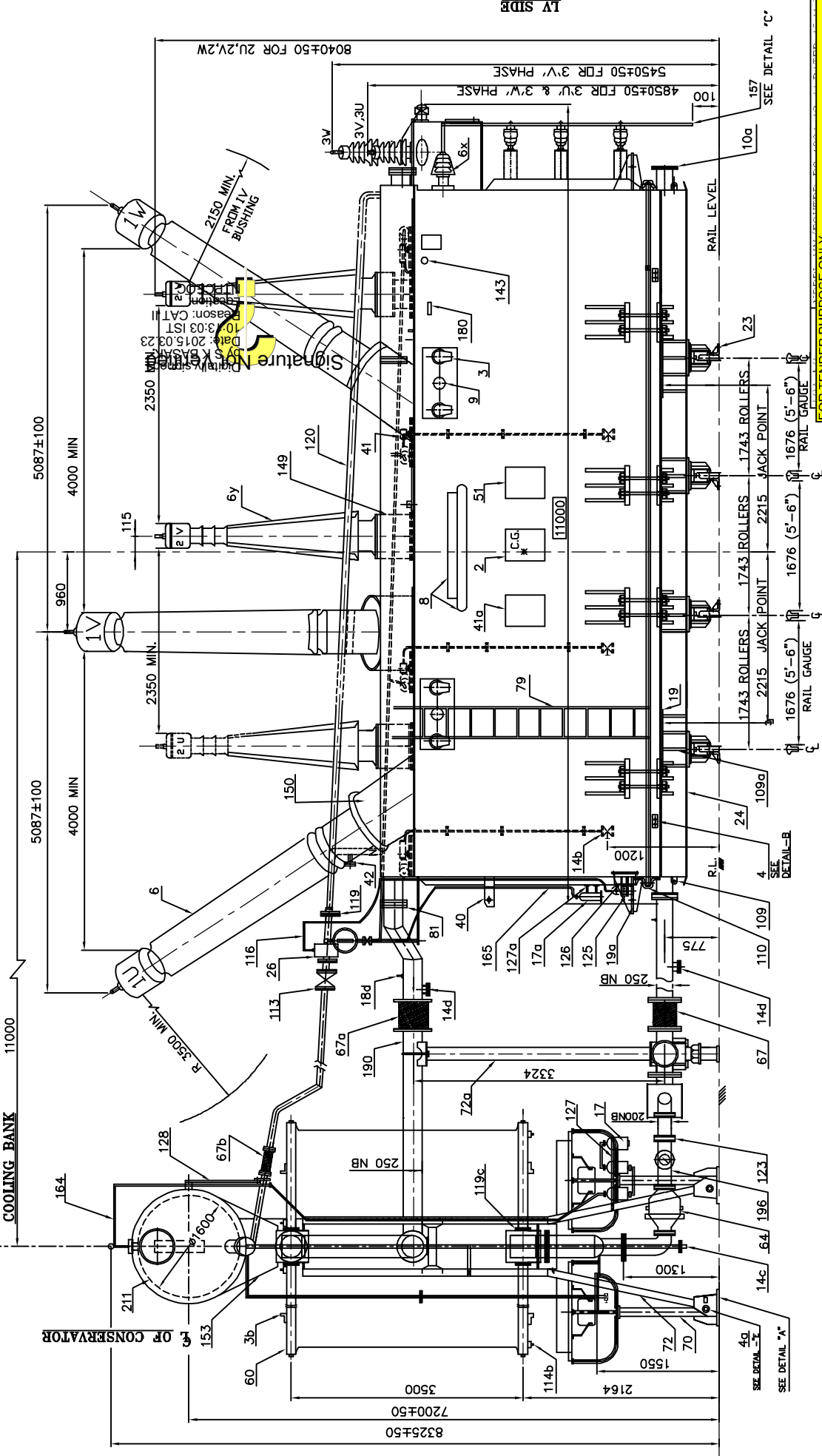
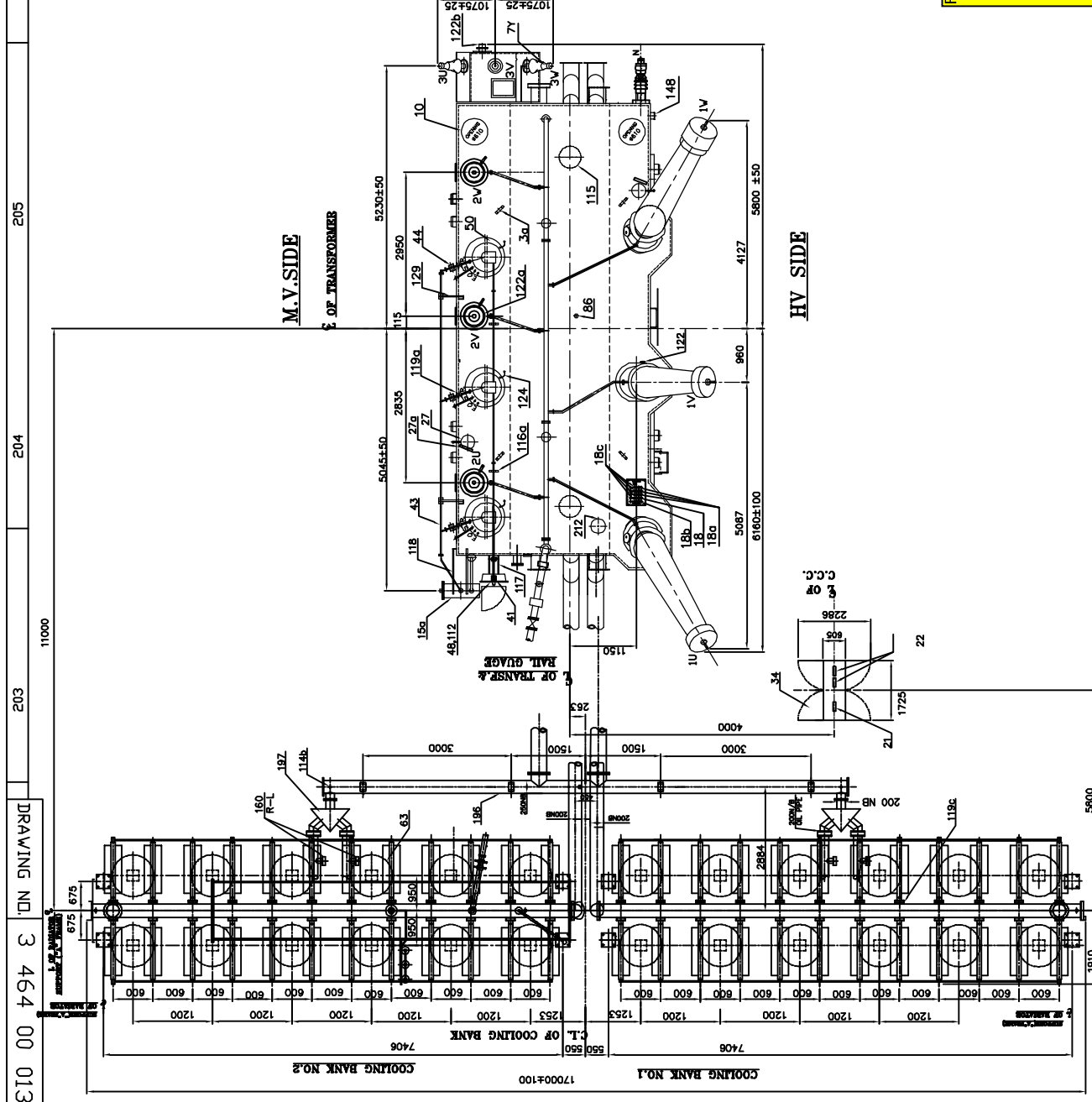


	BHARAT HEAVY ELECTRICALS LTD. TRANSFORMER ENGINEERING DEPARTMENT BHOPAL	TITLE	OUTLINE GENERAL ARRANGEMENT (ELEVATION VIEW HV SIDE)
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ITEM DESCRIPTION	INPT CODE 406	NAME NAME S/KG	SIGN 	DATE 220814	
		CHD APPD	AKP/RKS AKP/RKS	DATE 220814	
		DRAWING NO. 01361			SHEET 1 OF 4
		3 454 00			REV. 03
		220814			220814





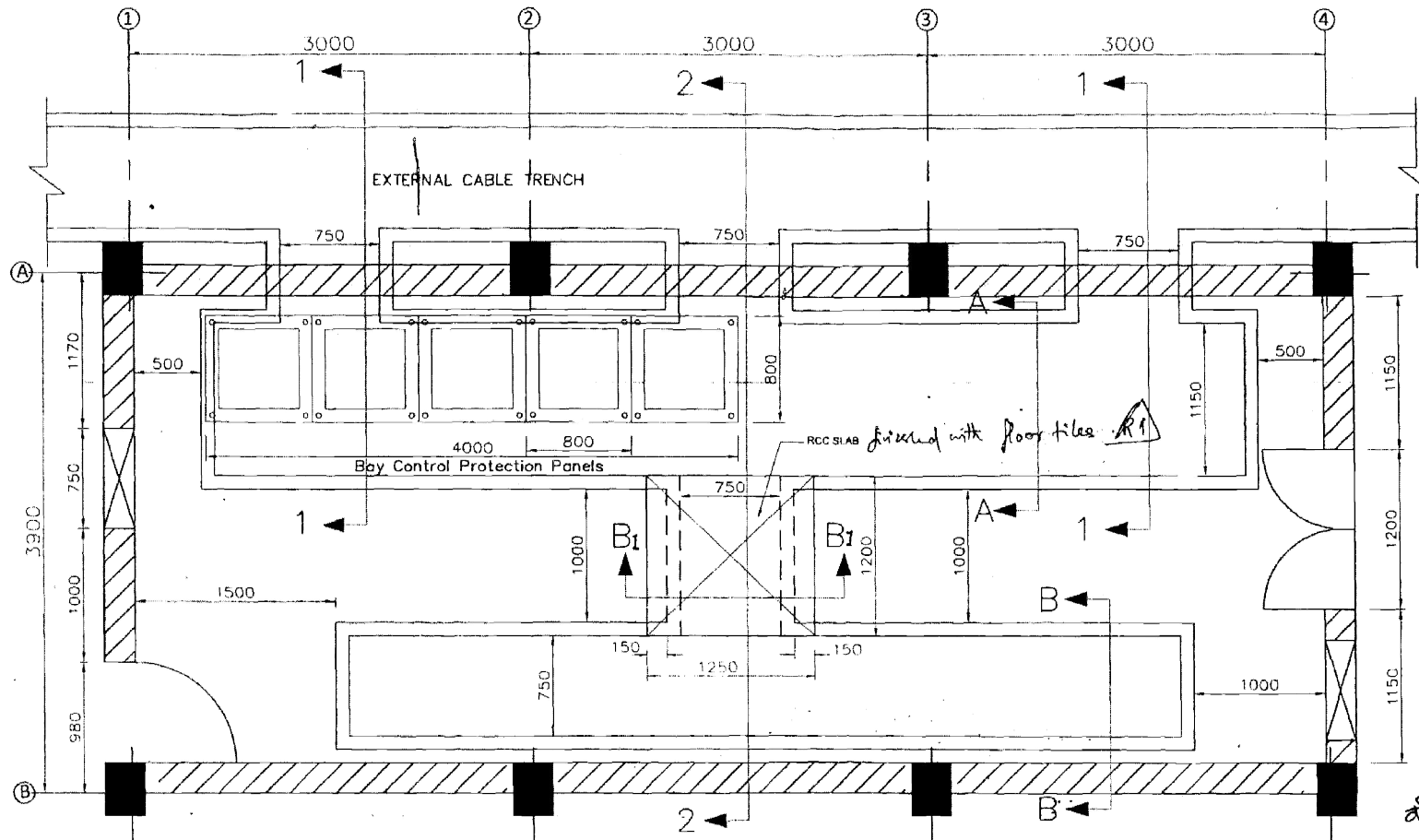
FOR TENDER PURPOSE ONLY

[illegible]

		203	204	205	206	207	208
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[illegible]

19E10 00 494 E			403		404		405		406		407		408	
REFERENCE DRGS.														
1		O.G.A. (4 SHEETS)		3 464 00 01361				DESCRIPTION		APPROX. WT. IN KG.				
2		PART LIST		3 464 00 01362				CORE AND WINDING		207700				
3		FOUNDATION PLAN		3 464 00 01363				TANK AND FITTINGS		44995				
4		MV BUSHING 245KV,2000amp OIP CONDENSER BUSHING		3 464 00 01364				BUSHING		5245				
5		HV BUSHING 420KV,1250amp OIP CONDENSER BUSHING		3 464 00 01365				COOLER CONTROL CABINET & WIRING		1400				
6		HV NEUTRAL BUSHING 36KV,2000amp PORCELAIN BUSHING		3 464 00 01366				COOLER BANK (INCLUDING CONSERVATORS, RADIATOR, PUMPS, FANS, FITTINGS & P/W ETC.		63000				
7		LV BUSHING 52KV,3150Amp OIP CONDENSER BUSHING		3 464 00 01367				OIL IN TRANSFORMER TANK		71340				
8		VALVE SCHEDULE PLATE		3 464 00 01368				OIL IN RADIATOR BANK, CONSERVATORS & PIPE WORK		23320				
9		RATING AND DIAGRAM PLATE		3 464 00 01369				TOTAL WEIGHT INCLUDING OIL		417000				
10		SHIPPING DIAGRAM		3 464 00 01370				SHIPPING WT. OF TRANSFORMER (GAS FILLED)		249000				
11		OIL FLOW DIAGRAM		3 464 00 01371				UNTANKING WEIGHT (UPPER TANK)		30000				
12		320 DIA TWIN BIDIRECTIONAL ROLLERS		3 464 00 01372										
13		OVER FLUXING CURVE		4 464 00 00121										
14		INTERNAL SKETCH		3 464 00 01373				APPROXIMATE OIL CAPACITIES		LITRES				
15		GENERAL ARRANGEMENT OF COOLER CONTROL CABINET		3 464 62 00214				OIL AND TANK INCLUDING TURRETS & OLTC		82000				
16		DIAGRAM OF COOLER CONTROL CABINET		3 464 62 00213				OIL IN RADIATOR BANK, CONSERVATORS & PIPE WORK		26800				
17		SCHEMATIC DIAGRAM OF TAP CHANGER CONTROL		3 464 64 00091				TOTAL OIL		108800				
NOTES :-														
1. WHEN REFERRING THE O.G.A. DRG, PLEASE QUOTE MVA & W.O. NO.														
2. DIMENSIONS SHOWN THUS ☐ ARE OVERALL SHIPPING DIMENSION.														
3. WIRING FROM INSTRUMENTS, C.T.S. ETC. NOT SHOWN FOR CLARITY.														
4. JACK POINTS MARKED THUS ARE FOR UNLOADING FROM TRAILOR,JACKING THE TRANSFORMER FOR CHANGING THE ROLLER DIRECTION.														
5. FINISH PAINT SHADE OF OUTSIDE SURFACE OF TANK AND ACCESSORIES IS BLUE COLOUR TO SHADE RAL 5012. ALSO REFER PAINT CLAUSE IN TECH SPEC.														
6. THE DESIGN FEATURES SHOWN ON THIS DRAWING (GENERALLY IN LINE WITH IS:2026 & AGREED CUSTOMER SPECIFICATION) MEETS THE STATUTORY, REGULATORY & SAFETY REQUIREMENTS WITH RESPECT TO EARTHING ARRANGEMENT, DANGER AND OTHER LABELS. CLEARANCES IN AIR, PROVISION FOR PRESSURE RELIEF DEVICE, GAS & OIL ACTUATED RELAY AND ANTI EARTH QUAKE CLAMPING ARRGT.														
7. ALL HEIGHT WISE DIMENSIONS ARE GIVEN FROM RAIL LEVEL.														
8. WEIGHTS & OIL QTY ARE APPROXIMATE.														
FOR TENDER PURPOSE ONLY														
INVENTORY NO.														
SIGN,DATE														
REF.DRG.NO.														
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.														
401														
402														
403														
404														
405														
406														
407														
408														
FORMAT SIZE A3														



PANEL ARRANGEMENT PLAN LAYOUT

निर्माण हेतु जारी

इलाका अधिकारी

Barastala

पावर ग्रिड कारपोरेशन ऑफ इंडिया लि०
(लिमिटेड) अभियांत्रिकी विभाग, गुडगांव, हरियाणा

NOTES:

- 1) ALL DIMENSIONS ARE IN MM AND LEVEL ARE IN METER. UNTIL OTHERWISE SPECIFIED.
- 2) FOR INTERNAL CABLE TRENCH LAYOUT REFER APPROVED SUB-STATION SPECIFIC ELECTRICAL DRAWING.
- 3) PANELS SHOWN ARE INDICATIVE ONLY
- 4) ALL CABLE ENTRIES SHALL BE PROVIDED WITH "CABLE TRANSIT SYSTEM"

REFERENCE DRG.:

STANDARD SWITCHYARD PANEL ROOM.
DRG NO.: C-ENGG-STD-SPR-STR-3011 (Rev-01) DATED: 10/12/2010

R1-3) SLAB FOR CABLE TRENCH ADDED

2) CABLE TRANSIT SYSTEM ADDED

POWER GRID CORPORATION
OF INDIA LIMITED

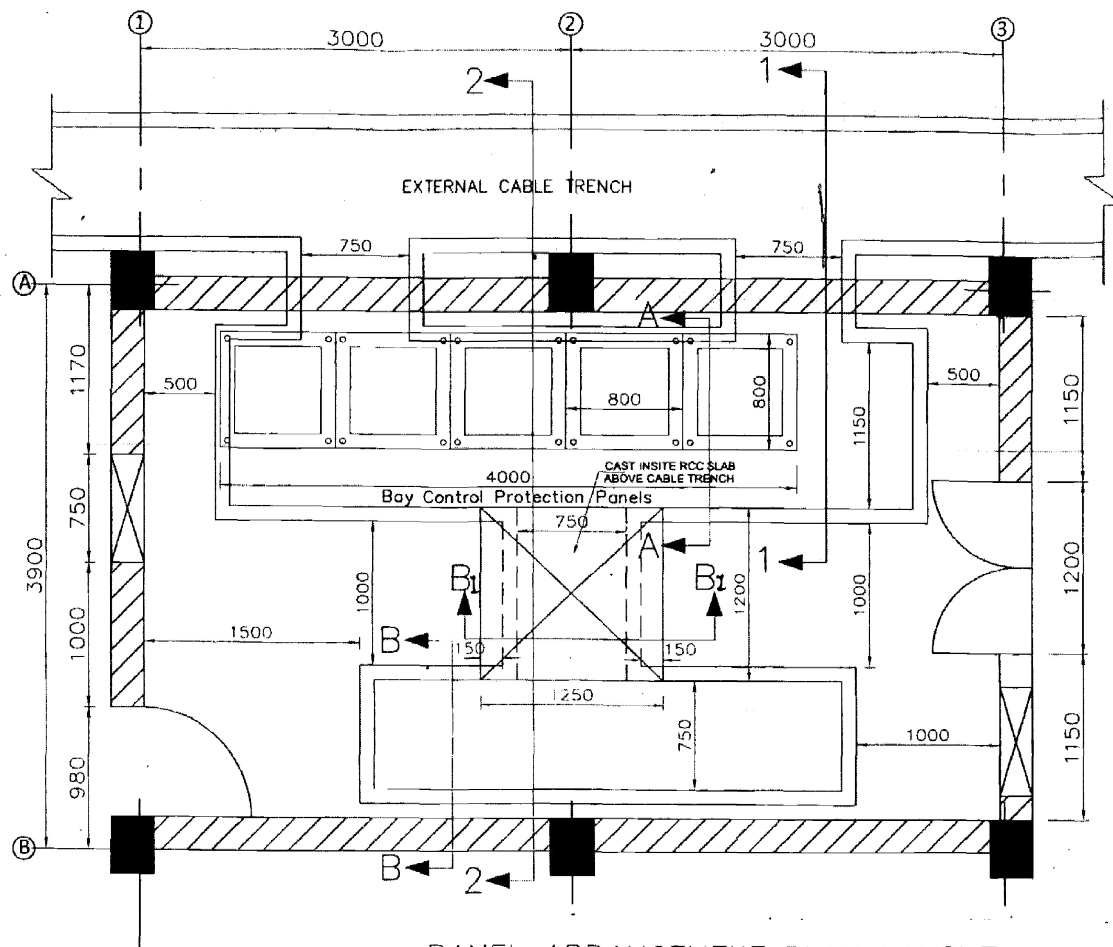
(A Government of India Enterprise)

PROJECT : 765/400/220 KV SUB-STATION.....

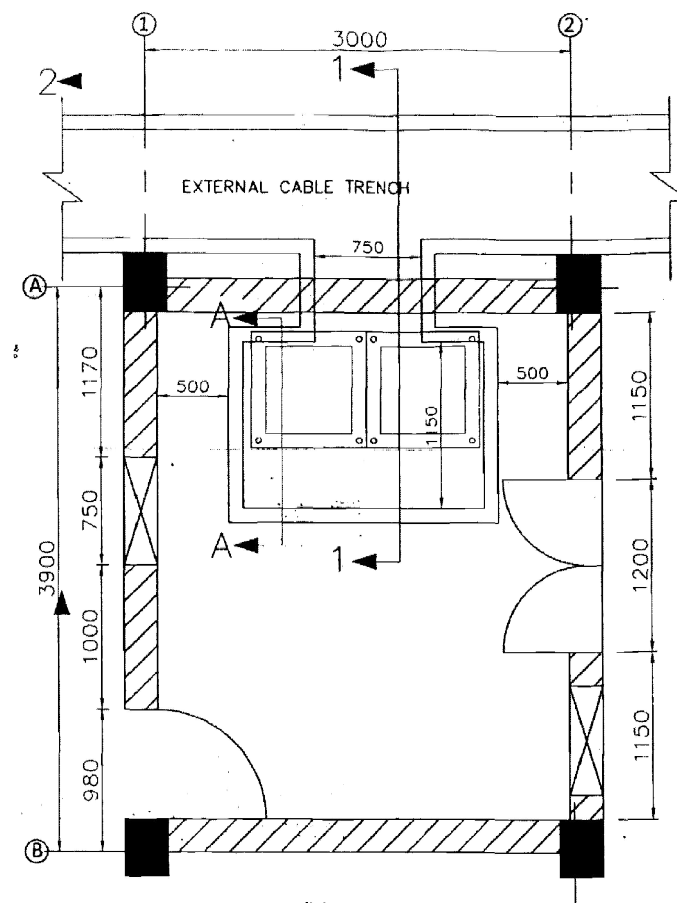
TITLE : STANDARD SWITCHYARD PANEL ROOM
(FOR 9 METER.)
GA & R.C.C DETAIL OF INTERNAL CABLE TRENCH

DRAWING NO. C-ENGG-STD-SPR-STR-3012 (SH. 1 OF 3) SCALE: NTS DATE: 16-4-17

PREP BY: T.K. SONDHIYA (JE (CIVIL))	REVD BY: S. SHARMA (CDE (CIVIL))	REVD BY: R. SRIVASTAVA (DGM (S/S))	REVD BY: K. RACHURAM (DGM (CIVIL))	REVD BY: K. RACHURAM (GM (CIVIL))	DATE: 16-4-17
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PANEL ARRANGEMENT PLAN LAYOUT



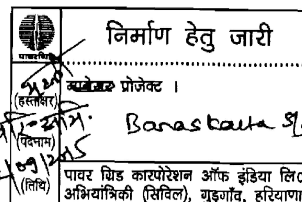
PANEL ARRANGEMENT PLAN LAYOUT

NOTES.:

- 1) ALL DIMENSIONS ARE IN MM. AND LEVEL ARE IN METER. UNTIL OTHERWISE SPECIFIED.
- 2) FOR INTERNAL CABLE TRENCH LAYOUT REFER APPROVED SUB-STATION SPECIFIC ELECTRICAL DRAWING.
- 3) PANELS SHOWN ARE INDICATIVE ONLY.
- 4) ALL CABLE ENTRIES SHALL BE PROVIDED WITH "CABLE TRANSIT SYSTEM".

REFERENCE DRG.:

STANDARD SWITCHYARD PANEL ROOM.
DRG. NO.: C-ENGG-STD-SPR-STR-3011 (Rev-01) DATED: 10.12.2010



R1- SLAB FOR CABLE TRENCH ADDED

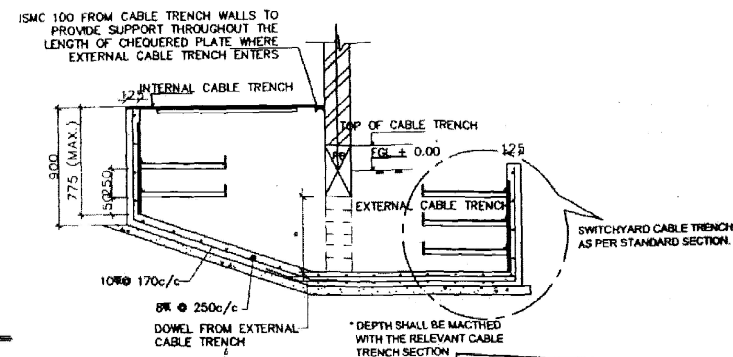
POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT : 765/400/220 KV SUB-STATION.....

TITLE : STANDARD SWITCHYARD PANEL ROOM
(FOR 6 & 3 METER.)
GA & R.C.C DETAIL OF INTERNAL CABLE TRENCH

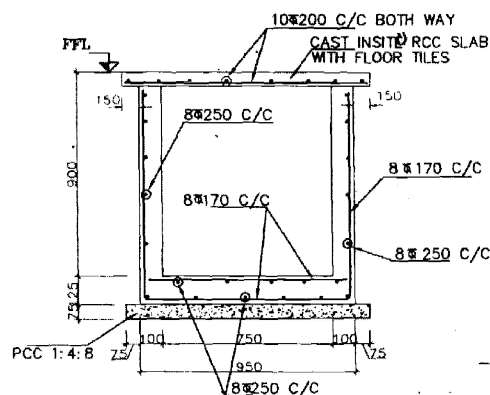
DRAWING NO. C-ENGG-STD-SPR-STR-3012
(SH 2 OF 3) SCALE: 1:1

PREP BY: T.K. SONDHIYA JE (CIVIL)	REVD BY: S. SHARMA CDE (CIVIL)	REVD BY: R. SIVASTAVAN DCM (S/S)	REVD BY: S. PANDEY DCM (CIVIL)	REVD BY: K. RAJURAM DCM (CIVIL)	DATE: 16.4.17
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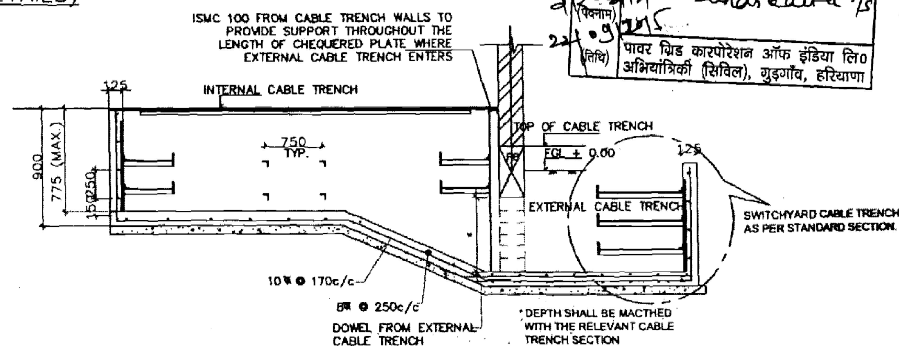
DETAIL - 'Y'
TYPICAL BOLT ARRANGEMENT

SECTION 1-1

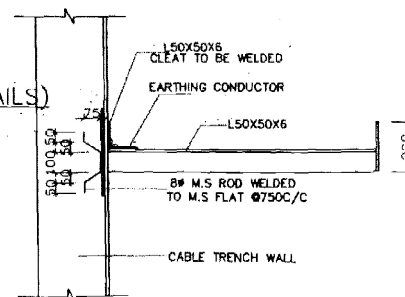


SECTION A-A
(SHOWING REINFORCEMENT DETAILS)

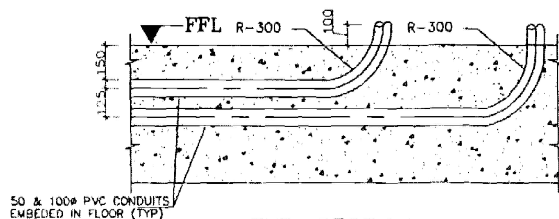
SECTION B1-B1
(SHOWING REINFORCEMENT DETAILS)



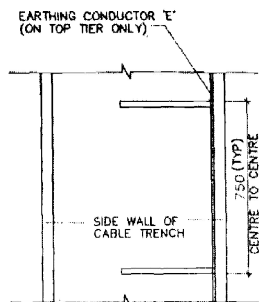
SECTION 2-2



TYPICAL CABLE SUPPORT



TYP. SECTION



CABLE TRAY SUPPORT (TYP)

- NOTES :-**

1. ALL DIMENSION ARE IN MM UNLESS NOTED OTHERWISE.
2. FOR NOTES REFER DRG. NO. : C-ENG-STD-SPR-STR-3011
3. FOR LAYOUT REFER DRG. NO. : C-ENG-STD-SPR-STR-3012 (SHEET 1 OF 2)
4. TOP OF CHEQUERED PLATE TO FLUSH WITH FINISHED FLOOR LEVEL
5. THIS DRAWING SHALL BE MATCHED WITH VENDORS APPROVED INTERNAL CABLE TRENCH LAYOUT DRAWING BEFORE START OF CONSTRUCTION
6. ALL WELDS ARE 6MM FILLET CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
7. ISMC 1000 SHALL BE PROVIDED @ 1000 C/C TO SUPPORT CHEQUERED PLATE WHEREVER CABLE TRENCH WIDTH EXCEEDS 1000 MM.
8. ISMC 1000 SHALL BE PROVIDED BELOW PANELS ALSO.
9. FOR CABLE TRENCH WITH LESSER WIDTH 150x50x5 STIFFENER SHALL BE WELDED WITH CHEQUERED PLATE @ 1000 C/C.

R1- SLAB FOR CABLE TRENCH ADDED

POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT : 765/400/220 KV SUB-STATION

TITLE : STANDARD SWITCHYARD PANEL ROOM
GA & R.C.C DETAIL OF INTERNAL CABLE TRENCH

DRAWING NO.	C-ENGG-STD-.SPR-STR-3012 (REV. 3 OF 3)	SCALE NTS	REV 1
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PREP BY. T.K.SONDHAYA E. (SMA)	REVO BY. S.SHARMA	REVO BY. R. SRIVASTAVA	REVO BY. S.PANDEY	REVO BY. K.RAGHURAM