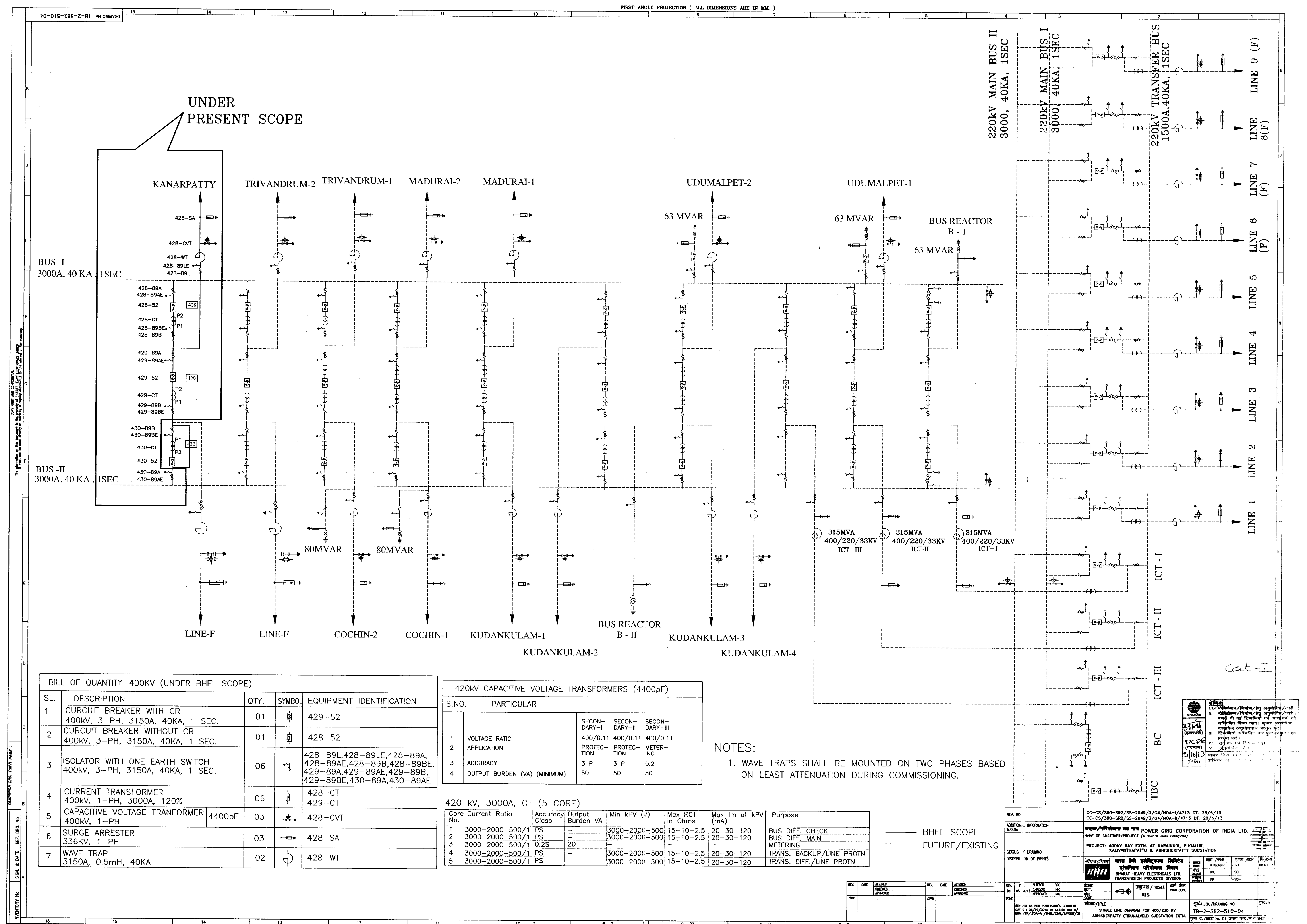




[illegible]

SYSTEM PARAMETERS :-

CLEARANCE TABLE :-

STRINGING DETAILS :-

NOTES:—

- LEGEND:-

Comments :-
① DSLP calculation,
clearance diagram
shall also be furnished

Cost

CC-380-SR2/SS-2049/3/G4/NOA-I/4713	DTD. 28.06.2013
CC-380-SR2/SS-2049/3/G4/NOA-II/4714	DTD. 28.06.2013

CC-CS/380-SR2/SS-2049/3/G4/NOA-II/4714 DTD. 28.06.2013

CC-03/200-3162-33 2079/2/04/NOV 11/7/14 D.D. 20:00:2010

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आइए/परियोजना का नाम POWER GRID CORPORATION OF INDIA LTD.

	श्रीमद्/प्रादेशिकी को. लि. POWER GRID CORPORATION OF INDIA LTD.
NAME OF CUSTOMER/PROJECT	(A Govt./India Enterprise)

NAME OF CUSTOMER/PROJECT (A Govt. or Indian Enterprise)

PROJECT: 400KV BAY EXTN. AT KARAIKUDI, PUGALUR,



**PROJECT: 400kV BAY EXTN. AT KARAIKUDI, PUGALUR,
KALIVANTHAPATTU & ABHISHEKAPATTY SUBSTATION**

KALIVANTHAPATTU & ABHISHEK PATTY SUBSTATION

ग्रीष्म ऋतु	अथवा	हेवी इलेक्ट्रिकलस लिमिटेड	कर्मचारी
		गोपनीय / NAME	ए-स्टॉक / SON.
			दि./दिवस

[illegible]

06.07	KULDEEP	-500
	NK	-500

5A	NK	DATE ORDERED	BY
5A		1973	

 U.S. ENVIRONMENTAL PROTECTION AGENCY TRANSMISSION PROJECTS DIVISION	PROJECT APPROVAL	PR	1-1-81
	PROJECT APPROVAL	PR	1-1-81

क्र.सं.	उत्पत्ति / SCALE	सर्वे कीट	आयुष्य	म
1	उत्पत्ति	सर्वे कीट	आयुष्य	म

[illegible]

815		1:500		
CODE				

CODE	DESCRIPTION	UNIT	QTY	PRICE	TOTAL
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002	002	002	002	002	002
003	003	003	003	003	003
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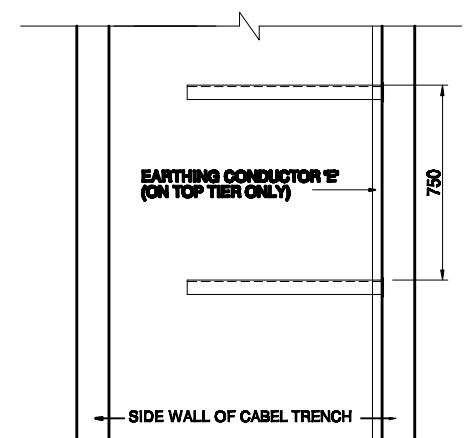
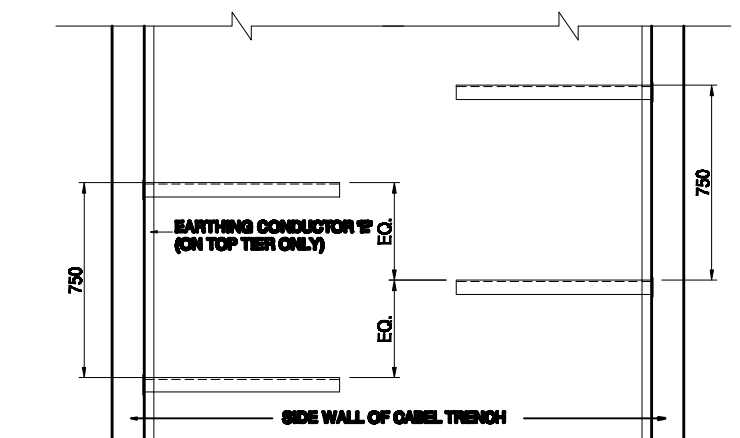
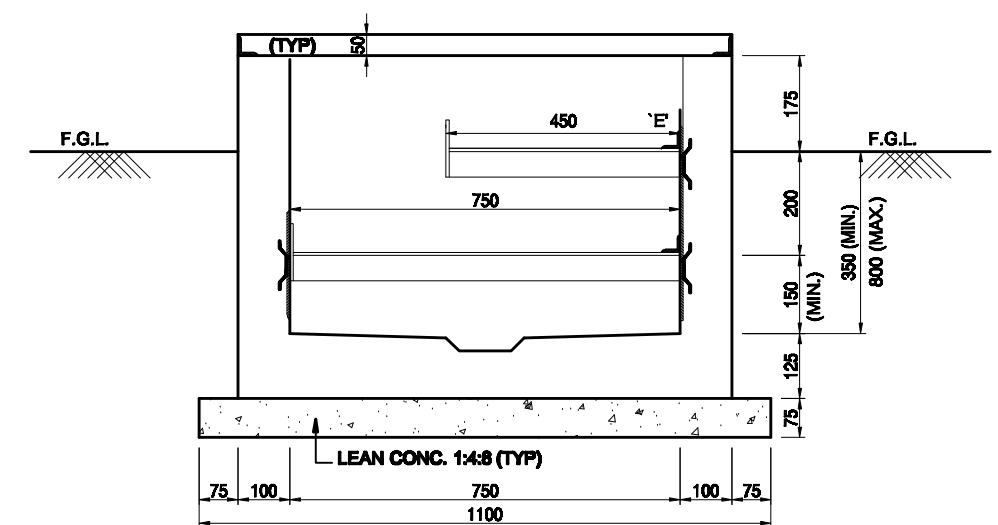
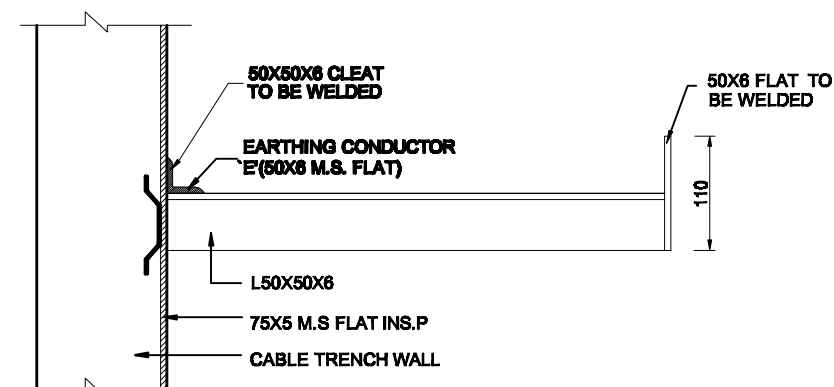
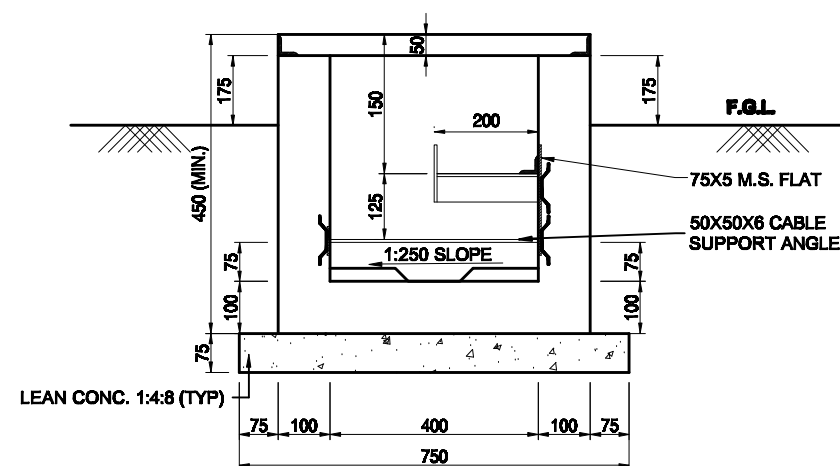
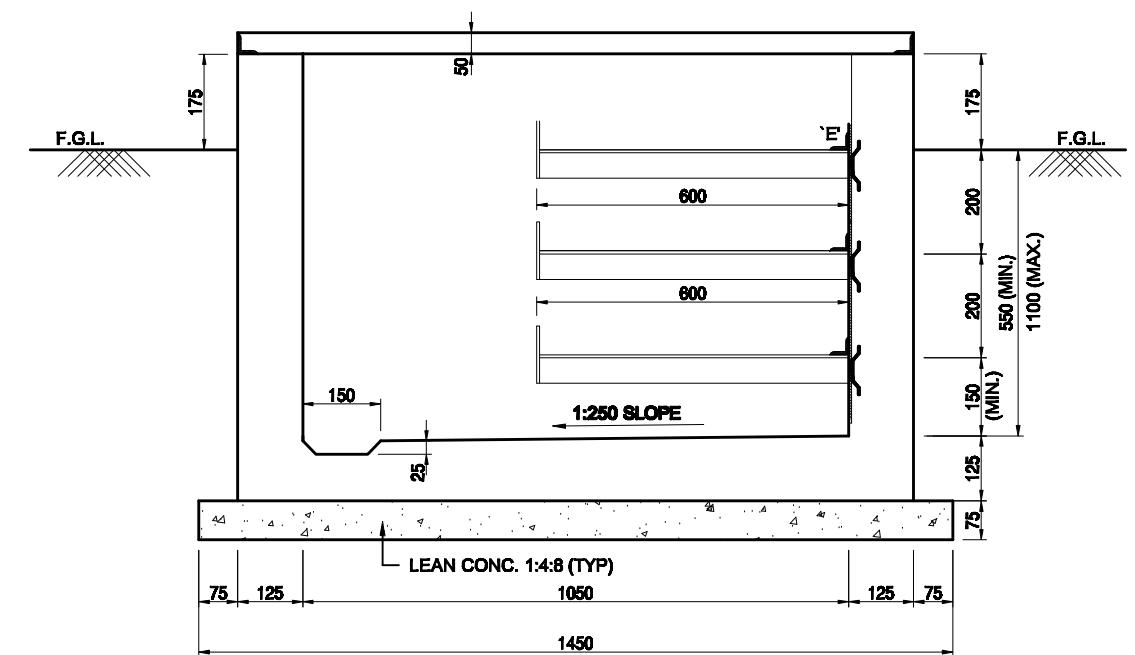
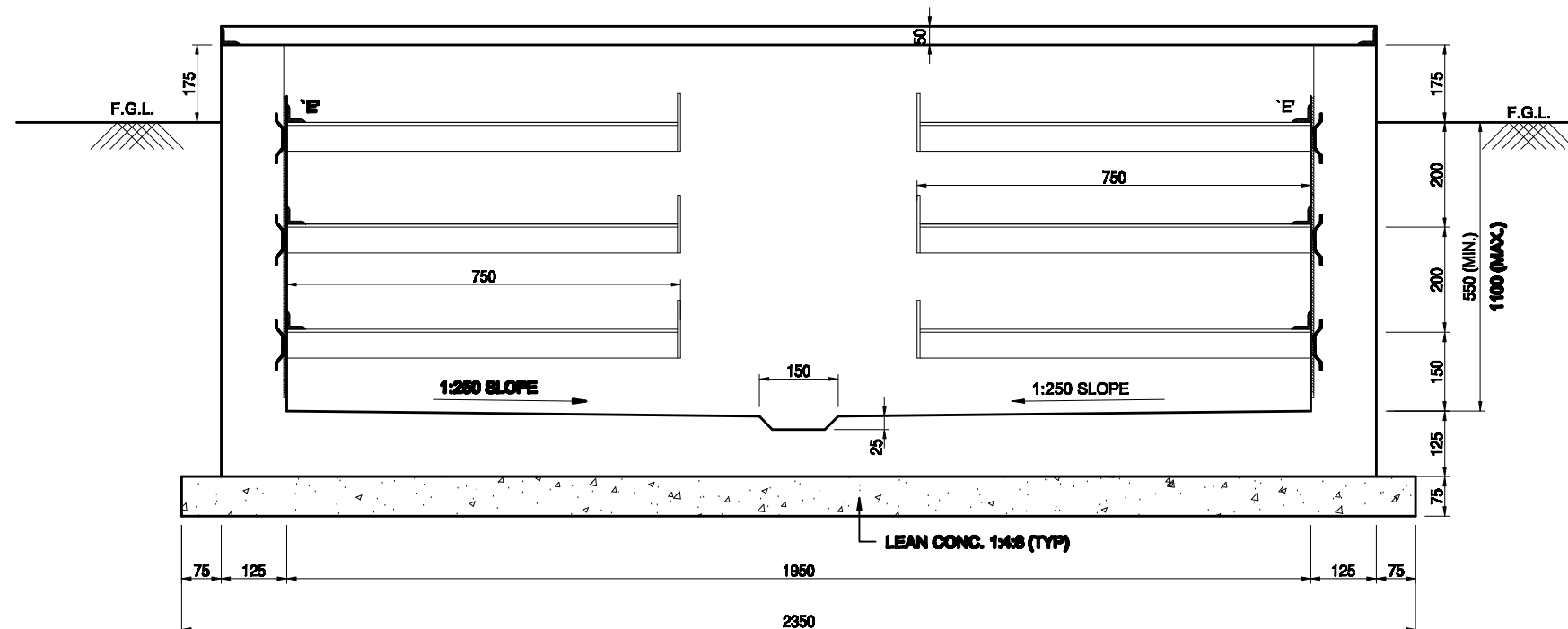
REVISIONS	DATE	BY	CHKD	DESCRIPTION
1	01/10/2010	001	001	TR-0-362-316-004

ABHISHEKPATY (TIRUNALVEL) SUBSTATION EXTN.	LAYOUT & SECTION FOR 400/230 KV	0
	TB-0-362-316-004	0

ABHISHEKPATY (TIRUNALVELU) SUBSTATION EXTN.

2	2	1	पृष्ठ सं./SHEET No. 01	अगली पृष्ठ./NEXT SHEET
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2	2	1
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NOTE:

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
2. R.C.C. MIX.SHOULD BE 1:1.5:3 (1 CEMENT: 1.5 COARSE SAND:3 STONE AGGREGATE 20mm NOMINAL SIZE.)
3. LEAN CONC. SHALL BE IN THE RATIO.1:4:8.
(1 CEMENT:4 COURSE SAND: 8STONE AGGREGATE 40MM NORMAL SIZE)
4. FOR ALL OTHER NOTES REF. DRG. No. C/ENGG/STD/CT-1(SHEET-2)

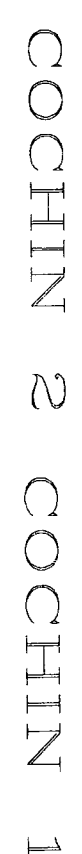
RELEASED FOR CONSTRUCTION.

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

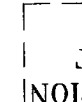
PROJECT:	STANDARD DRAWING FOR CABLE TRENCH
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TITLE: DETAIL FOR CABLE
TRENCH SECTIONS.

							TITLE: DETAIL FOR CABLE TRENCH SECTIONS.				
PREP	REVD	REVD	REVD	REVD	APPD	DATE	SCALE NTS	DRAWING NO.	C/ENGG/STD/CT-1	SHEET NO. 1 OF 2	REV R-0



PRESENT SCOPE
EXISTING/FUTURE/NOT IN BHEL SCOPE



17. _____ INDICES CABLES LAID IN PVC PIPES OF 50' - 10mm (GRADE DIA. AT DEPTH OF 350mm (14").
18. MARKED THIS ► INDICATES CABLE ENTRY/EXIT FROM EQUIPMENT.
19. ALL OTHER DETAILS PERTAINING TO CABLE WORKS SHALL RUN IN PVC PIPES.
20. PVC PIPES SHALL BE SECTORIZED FROM A BOTH ENDS, EITHER DIRECTION IN CONCRETE OR PROPERLY MARKED.
21. AFTER LAYING THE CABLES THE ENDS OF PIPES SHALL BE PROPERLY CAPED AND PLUGGED TO PREVENT INGRESS OF WATER INSIDE THE PIPE.
22. CONTROL CABLES & POWER CABLES MUST BE LAID SEPARATELY IN PVC PIPES.
23. CABLE TRENCH SHALL BE PROVIDED ON WASTEWATER BOY SIDE OF EQUIPMENT.
24. THE PURPOSE OF TRENCH (ABOUT DEAKING) IS FOR USE AS FOLLOWS:
 - FOR CABLES OF CABLE TRAYS.
 - FOR CABLE TRAYS AND PIPING AT SITE.
 - 25. CABLE TRAYS AND SUPPORTS SHALL BE PAINTED AFTER INSTALLATION WITH 2 COATS OF METAL PRIMER (COMBINATION OF RED OXIDE & ZINC CHROME IN A SWEETENED MEDIUM FOLLOWED BY TWO FINISHING COAT OF ALUMINUM PAINT, THE RED OXIDE AND ZINC CHROME SHALL CONFORM TO IS:2074)
 - 26. ► INDICATES BRICK WALL SHALL BE PROVIDED IN TRENCH WHERE FUTURE TRENCH/EQUIPMENT PIPE TERMINATED
 - 27. SURFACE TULL OUT BOX SHALL BE PROVIDED IF REQUIRED WHERE CABLE SHALL BE LAID IN PVC PIPE.
 - 28. UNIFORM SLOPE IN CABLE TRENCH SHALL BE MINIMALLY 1:500.
 - 29. ► INDICATE PIPE CULVERT.
 - 30. ► INDICATE ASSIGNS FOR CABLE TRENCHES SHALL BE PROVIDED ON THE FACE OF TRENCH WALL, MARKED ► THIS.
 - 31. FOR ALL CIVIL WORKS EXECUTION POINTS AND/OR APPROVED/RELEASED PROCS SHALL BE FOLLOWED.
 - 32. PVC PIPES SHALL BE CLASS A-5 AS PER IS:9885.
 - 33. RCC PLUME PIPE OF CLASS N-5 SHALL BE USED IN ROAD CROSSING CULVERTS.
 - 34. PLEASE REFER CIVIL DRAWING FOR SLOPE AND RATIO.
 - 35. REFER STANDARD CABLE TRENCH DRAWINGS FOR SECTIONS AND OTHER WORKS AS MENTIONED BELOW.
 - a) c./cns/STD/CT-1
 - b) c./cns/STD/CT-2
 - c) c./cns/STD/CT-3
 - d) c./cns/STD/CT-4

1. ALL DIMENSIONS ARE IN mm

- [illegible]

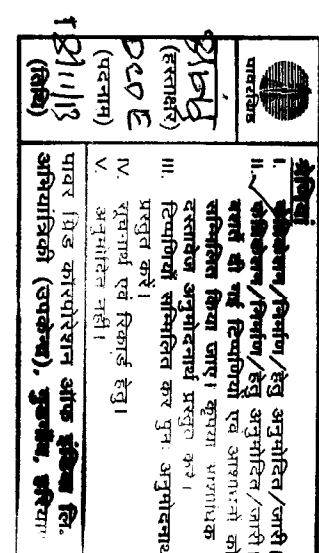
- FOR CABLE LAYING AND ROUTING AT SITE

25. CABLE RACK AND SUPPORTS SHALL BE INSTALLED AFTER INSULATION WITH 2" COATS OF MINERAL FIBER (COMPOSING OF RED OXIDE & ASBESTOS) AND CHARCOAL. A SYNTHETIC MEDIUM FLOWABLE FINISHING COAT OF ALUMINUM PAINT (THE RED OXIDE AND ZINC CHROMATE SHALL CORRESPOND TO S12074)
26. INDICATES BRICK WALL SHALL BE PROVIDED IN TRENCH WHERE FUTURE TRENCH/EQUIPMENT PIPE TERMINATED
27. SOFTENED FILL OUT BOX SHALL BE PROVIDED IF REQUIRED WHERE CABLE SHALL BE LAD IN PVC PIPE.
28. DOWNHILL SLOPE IN CABLE TRENCH SHALL BE TYPICALLY 1:50/0.
29. INDICATE PIPE COVER/1
30. RACK ASSEMBLY FOR CABLE TRENCHES SHALL BE PROVIDED ON THE FACE OF TRENCH WALL MARKED ► THIS.
31. FOR ALL CIVIL WORKS EXECUTION POWER GRAD APPROVED/RELATED DROPS SHALL BE FOLLOWED.
32. PVC PIPES SHALL BE CLASS 4 AS PER IS:4585.
33. R/C HUME PIPE OF CLASS NP-3 SHALL BE USED IN ROAD CROSSING COVERTS.
34. PLEASE REFER CIVIL DRAWINGS FOR SLOPE AND RATIO.
35. REFER STANDARD CABLE DRAWINGS FOR SECTIONS AND OTHER WORKS AS MENTIONED BELOW:
 - A) C/ENCO/ST/D/C1-1
 - B) C/ENCO/ST/D/C1-2
 - C) C/ENCO/ST/D/C1-3
 - D) C/ENCO/ST/D/C1-4

PVC PIPES : CLASS IV (AS PER IS:4985)

FVC PIPES : CLASS IV (AS PER IS:4985)				
FOR 400K+ EQUIPMENTS				
S/NO	PRODM	TO	FROM	HEIGHT FROM GROUND (CM)
		[COT/CT]	FROM COT/TO GROUND	HEIGHT FROM GROUND (CM)
1.	TRENCH	—	1	1
2.	EAH [COT/CT]	EAH [COT/CT]	—	1
3.	TRENCH	—	1	3
4.	LCF OF CB	MAH OF CB 'R'	1	1
5.	LCF OF CB	MAH OF CB 'Y'	1	1
6.	LCF OF CB	MAH OF CB 'R'	1	1
7.	TRENCH	—	1	2
8.	400K+ ISO/FS KOM 'Y'	400K+ ISO/FS KOM 'Y'	1	1
9.	400K+ ISO/FS KOM 'Y'	400K+ ISO/FS KOM 'Y'	1	1
10.	400K+ ISO/FS KOM 'R'	400K+ ISO/FS KOM 'R'	1	1

cat-1



- ① Mark the direction and ratio of slope
- ② the details of cable pull box shall be submitted

[illegible]

NOA NO: CC-CS/380-SR2/SS-2049/3/G4/NOA-1/4713 DTD. 28.06.2013
CC-CS/380-SR2/SS-2049/3/G4/NOA-1/4714 DTD. 28.06.2013

CC-CS/380-SR2/SS-2049/3/G4/NOA-II/4714 DTD. 28.06.2013

CC-CS/380-SR2/SS-2049/3/G4/NOA-II/4714 DTD. 28.06.2013