GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
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Race Course, VADODARA – 390 007.
(CIN: U40100GJ1999SGCO36018)
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Web site: www.getcogujarat.com-Email: serc.getco@gebmail.com

Ref. no. CE(Project)/LS/Cable Trench/Rev. Drg./649 **Date:** 10.04.2019

To,
The Superintending Engineer (TR),
Gujarat Energy Transmission Corporation Limited,
Transmission Circle Office,
Navsari, Bharuch, Jambuva, Nadiad, Surendranagar, Mehsana, Himmatnagar, Palanpur, Gondal, Jamnagar, Amreli, Anjar, Junagadh,

Sub: Shifting of 66 kV Transmission lines through laying of 66 kV U/G cable in the cable trench inside the premises of applicant. – **Revision in approved drawing of Cable trench for 66 kV Cable.**

Ref: 1) CE(Projects)/II/T-2/Std. Drg. Cable Trench/5391 dated 26.11.18.

Vide letter no. CE(Project)/II/T-2/Std. Drg. Cable Trench/5391 dated 26.11.18, the guideline / modality for shifting of 66 kV transmission line through laying of 66 kV U/G cable had been issued as under,

"Now onwards, it is decided to prepare the proposal / estimate for shifting of 66 kV Transmission line through laying of 66 kV U/G cable by field office should have to be considered cable trench for 66 kV Power cable (S/C or D/C) inside the premises of applicant and standard approved drawing of cable trench for 66 kV U/G cable with all details is attached herewith."

Now, Standard drawing of cable trench for 66 kV Cable (single & Double circuit) inside the applicant's premises is revised and the revised drawing with all details is attached herewith.

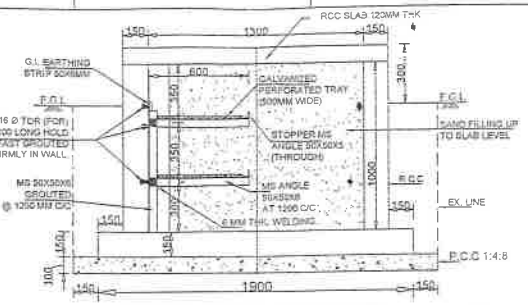
In view of above, you are instructed to convey the guideline & revised drawing up to Const. S/DN level & follow it without fail and submit the proposal / estimate accordingly.

This is for your information and immediate action, please.

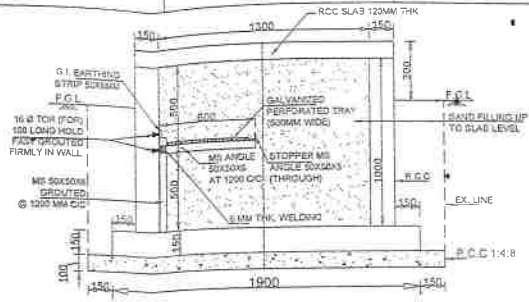
Endl: Rev. Drawing No. GETCO/C/6L-STD/NS/CBLT-018 R1.

Chief Engineer (Project)

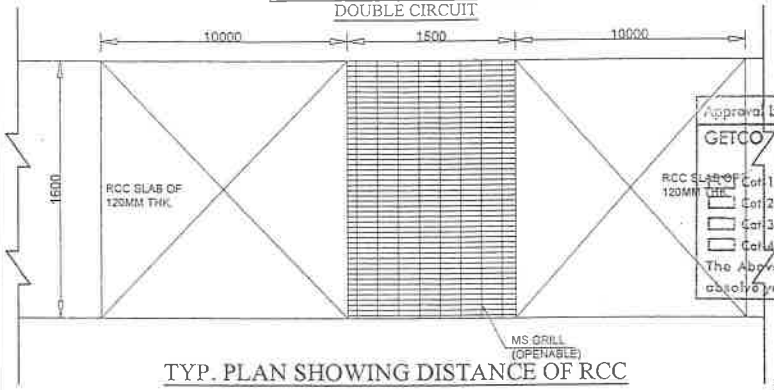
C.C. to:
1) ACE(R&C/Engineering), Corporate Office, Vadodara
2) SE(Civil), Corporate office, Vadodara
3) EE(Const.), Navsari, Bharuch, Jambuva, Nadiad, Limbdi, Mehsana, Himmatnagar, Deesa, Rajkot, Jamnagar, Amreli, Anjar, Junagadh



SECTION OF CABLE TRENCH FOR DOUBLE CIRCUIT

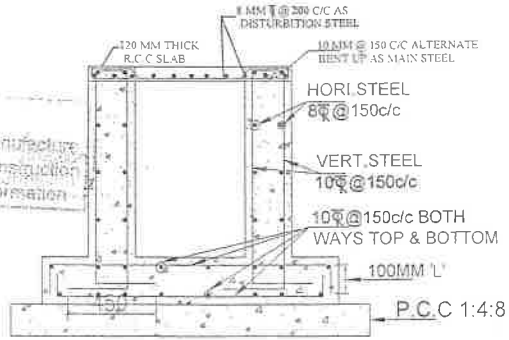


SECTION OF CABLE TRENCH FOR SINGLE CIRCUIT



TYP. PLAN SHOWING DISTANCE OF RCC SLAB & MS GRILL (TYP.)

(NOTE:- AT JUNCTION / CORNERS ETC DISTANCE OF RCC SLAB & MS GRILL MAY BE ADJUSTED AS PER SITE CONDITION. THIS SHALL JOINTLY BE DECIDED BY EE(CONST.) & BIDDER)



RCC DETAILS OF CABLE TRENCH

Approval Letter/Mail No.

GETCO ENGG.CELL

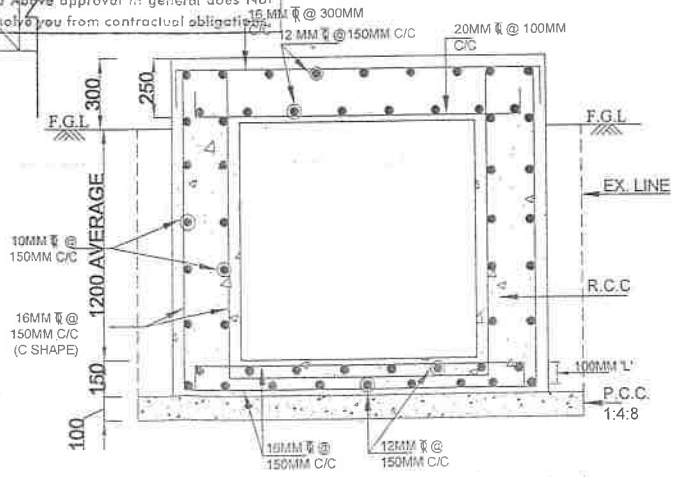
DRAWING APPROVAL

- Cat.1 Approved
- Cat.2 Approved With Comments
- Cat.3 Approved For Information
- Cat.4 Not Approved

The Above approval in general does Not absolve you from contractual obligations.



DETAILS BE LAID AT 100MM BELOW TOP OF SAND FILLING AS PER DRG NO. GETCO/66KV/UG CABLE/W TAPE/SH 1 OF 1 R0



SECTION OF CABLE TRENCH FOR SINGLE CIRCUIT / DOUBLE CIRCUIT AT ROAD CROSSING

(ARRANGEMENT OF CABLE TRAY SHALL BE AS PER ADJOINING CABLE TRENCH)

IMPORTANT NOTES:-

A. GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETER UOS & LEVELS ARE IN METER
2. DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING. (i.e. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING).
4. ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
5. IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGINEERING CELL. NO ASSUMPTIONS SHALL BE MADE.
6. ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT AND SAFETY MANUAL & RELEVANT STANDARDS / IS CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.

B. CONCRETE

7. ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS:456-2000, WITH LATEST REVISION.
8. THE GRADE OF CONCRETE SHALL BE M-20, EXCEPT LEAN CONCRETE.
9. ALL CONCRETE SHALL BE MACHINE MIXED,VIBRATED AND CURED FOR MINIMUM 10 DAYS.
10. USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.

C. REINFORCEMENT

11. REINFORCEMENT BAR SHALL BE TMT BARS CONFIRMING TO IS 1786-GRADE FE 415.
12. REINFORCEMENT SHALL BE BENT AND FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS:2502-1963.
13. CLEAR COVER TO ALL REINFORCEMENT SHALL BE AS UNDER: SLAB / LINTEL / CHHAJJA = 15MM, PARDI / WALL / COPING = 20MM, BEAM = 25MM, COLUMN = 40MM, FOOTING = 50MM
14. LAP LENGTH SHOULD BE 50 X DIA OF BAR.
15. LAP @ SUPPORT SECTION, JOINT SECTION, MID SPAN SHALL BE AVOIDED.
16. OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
17. LENGTH OF ALL 'L' SHOULD BE 150 MM U.O.S

D. FOUNDATION

18. NO FOUNDATION SHALL REST ON FILLED SOIL / BLACK COTTON SOIL.
    - IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 250MM BELOW VIRGIN SOIL.
    - IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION,THAN FOUNDATION SHALL EXTENDED UP TO DEPTH OF ADJOINING FOUNDATION.
    - IN CASE BLACK COTTON SOIL ENCOUNTERED AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BAD OF 300MM THICKNESS
19. THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%

E. CABLE TRENCH

20. SUFFICIENT SLOPE (1 : 1000) SHALL BE PROVIDED AT BOTTOM OF CABLE TRENCH SO THAT RAIN WATER (IF ANY) CAN BE ACCUMULATED AT ONE POINT FOR EASY DISPOSAL. APPROPRIATE ARRANGEMENT FOR DISPOSAL OF ACCUMULATED WATER SHALL BE DONE BY 'APPLICANT'.
21. HOLES SHALL BE KEPT IN RCC WALL AT REQUIRED LOCATION FOR ENTRY OF CABLE OF EQUIPMENTS AS PER APPROVED ELECTRICAL LAYOUT.
22. ANCHOR FASTENER BOLT OF SUFFICIENT CAPACITY MAY BE USED INSTEAD OF HOLD FAST GROUTED IN WALL. THIS SHALL BE DECIDED BY SITE INCHARGE
23. ALL THE STEEL MEMBERS AND PERFORATED TRAY USED FOR CABLE LAYING SHALL BE FULLY GALVANIZED.
24. ITEM OF LADDER TYPE TRAY SHALL BE AS PER ITEM DESCRIPTION OF ORDER, RELEVANT TECHNICAL SPECIFICATION & IS CODES.
25. CABLE TO BE LEAD IN TREFOIL FORMATION. THE TREFOIL & SPARE CABLE TO BE FIXED WITH CABLE TRAY USING ALUMINUM ALLOY MATERIAL CLAMP APPROVED BY GETCO.
26. SIZE (WIDTH) OF CABLE RACKS & TRAY SHELL BE INCREASED SUITABLY TO ACCOMODATE THE JOINTS IN POWER CABLE AS PER SITE REQUIREMENT.
27. G.I. EARTHING STRIP 50X6MM TO BE LAID FOR ENTIRE LENGTH OF TRENCH & CONNECTED TO EARTHING PITS AT TWO ENDS.
28. IT IS TO BE ENSURED THAT TURNING ANGLE OF CABLE TRENCH SHALL NOT BE MORE THAN 50° IN ANY CASE.

LEGENDS

F.G.L. = FINISHED GROUND LEVEL

U.O.S = UNLESS OTHERWISE SPECIFIED

SPECIAL NOTE:-

- STRUCTURAL STEEL LIKE M.S.ANGLE, CHANNEL, PLATE ETC. SHALL BE HOT DIP GALVANIZED AS PER RELEVANT STANDARDS & CORES.

EXECUTION PURPOSE

GUJARAT ENERGY TRANSMISSION CORPN.LTD.
S.P.VIDYUT BHAVAN, RACE COURSE,
VADODARA - 390 007

STANDARD DRAWING OF " DETAILS OF CABLE TRENCH FOR 66KV POWER CABLE (SINGLE CIRCUIT AND DOUBLE CIRCUIT) INSIDE APPLICANT'S PREMISES "

DRAWN	CHECKED	APPD.	SIZE
JE (CIVIL)	DE (CIVIL) | EE (ENGG.) | EE (CIVIL)	SE (ENGG.) | SE (CIVIL) | CE (ENGG.)	A3
SCALE	DATE	DRG. NO.	SHEET	REV.
N.T.S	26.03.12	GETCO / C / 6L-STD/INS/CBLT/1018	1 OF 1	R1

SR.NO.	REFERENCE	REV.	DESCRIPTION
1		R1	SAND FILLING ADDED IN CABLE TRENCH
		R0	FIRST PREPARATION. DTD. 15.11.2016

Released For Manufacture
Released For Construction
Released For Information