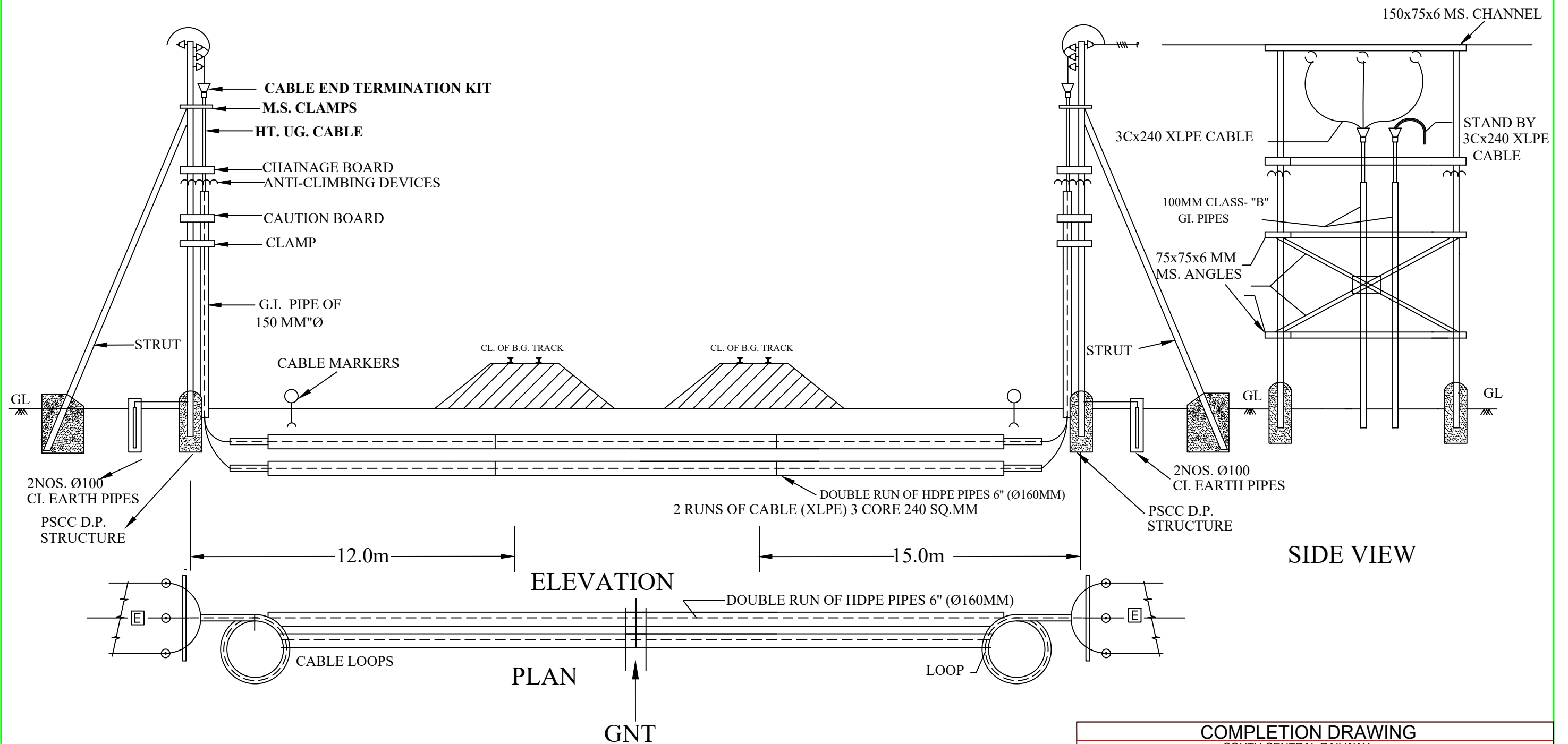


1

# DONAKONDA to TARLUPADU SECTION - MODIFICATION OF HT. 11 KV POWER LINE CROSSING AT LC gate, Loc No.158/14



GUTHIMARI  
VENKATA RAJA  
Digitally signed  
by GUTHIMARI  
VENKATA RAJA  
**Signature of the Contrtactor.**

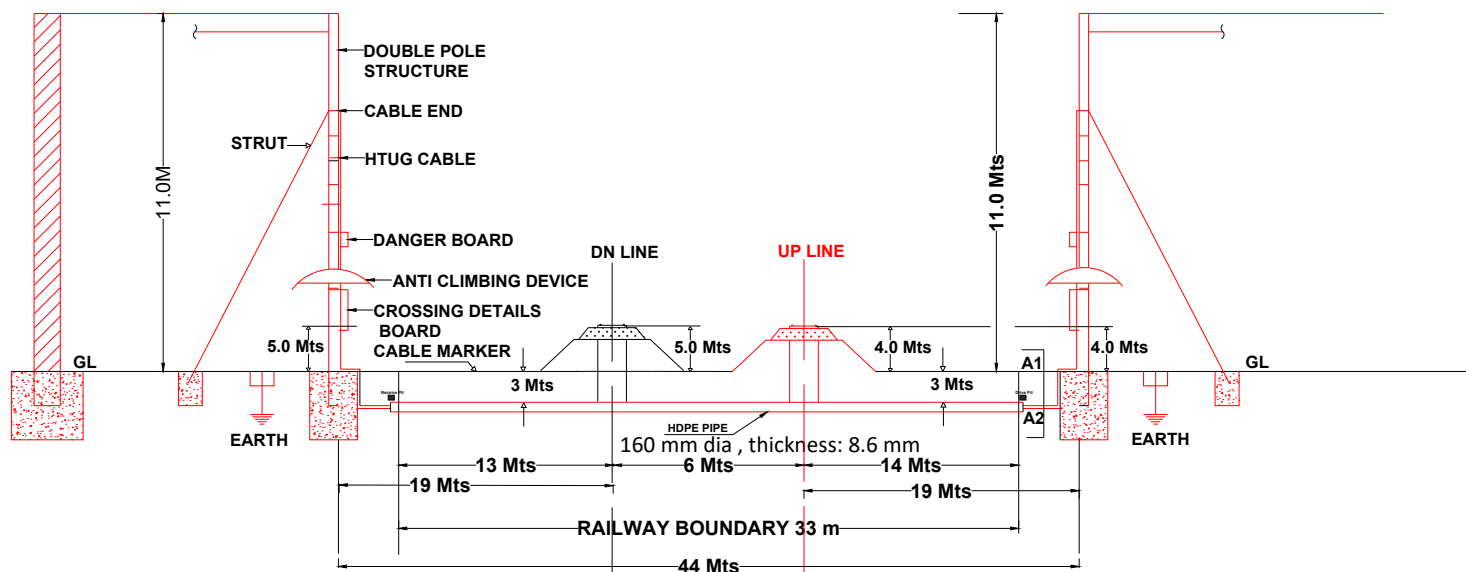
MURALI  
MOHAN  
GANTA  
Digitally signed  
by MURALI  
MOHAN GANTA  
**SSE/E/C/GTL**

COMPLETION DRAWING	
SOUTH CENTRAL RAILWAY	
GUNTUR DIVISION: Donakonda to Tarlupadu section	
Name of the Work: Guntakal Division :- (A) Electrification of Relay, Battery, Equipment, ASM, Switch cum Tool Room, Gunties, Telecom Room, Diagnostic Room, Platforms, FOB, COP, Circulating areas at 4 Nos. of Crossing stations, Donakonda, Gajjelakonda, Markapur and Tarlupadu stations In connction with construction of new B.G Doubling line between Guntur to Guntakal station - Electrical arrangements.(B) Shifting/Modification of Existing 1 Nos- 11KV Power line crossings , shifting of Poles LT/11kV, solar system etc , which are infringing in the New BG Doubling Line between Donakonda to Tarlupadu Railway stations of Guntur -Guntakal section.	
M/s Gruis Communication Technologies, Door No.958, Pragati Nagar, Hyderabad -500072	
Agreement No: G/E.CN/29/I/425 dated 08.08.2019	
NOT TO SCALE	

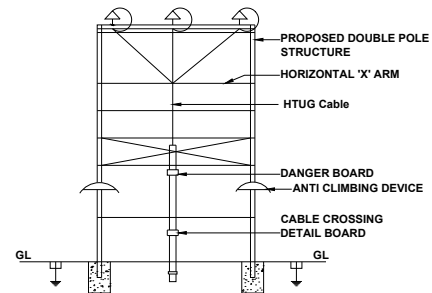
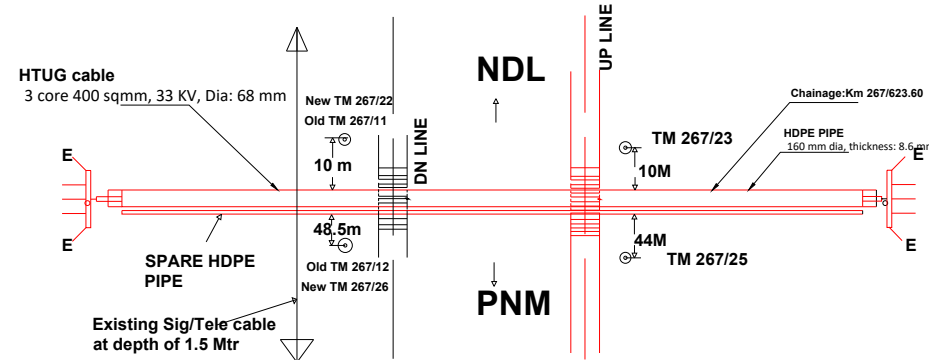
Proposed Laying of 33 KV underground Power Line Crossing (Double Run) at Km T.P. No.: 267/11-12 Between Panyam [PNM] and Nandyal [NDL] Railway Stations Near Kowluru Vilage.

Not to scale Drawing.

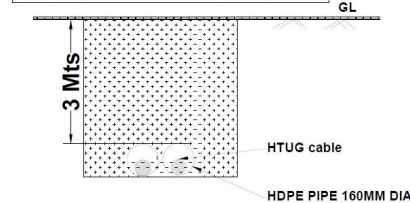
ELEVATION



PLAN



SECTIONAL VIEW A1-A2



STANDARD SPECIFICATIONS TO BE FOLLOWED FOR RAILWAY POWER LINE CROSSING

- IS : 3043 :
  - IS : 4091 :
  - IS : 398 : (PART -III) 1990
  - IS : 398 : (PART -V) 1992
  - IS : 1678 :
  - IS : 1255 :
  - IS : 694 :
  - IS : 7098 : (PART -III) 1985
  - IS : 13573:
  - IS : 458 :
  - BS : 105 :
- EARTHING ARRANGEMENT FOUNDATION FOR TRANSMISSION LINE TOWERS & POLES**  
**ALUMINUM CONDUCTOR GALVANIZED STEEL REINFORCED**  
**ALUMINUM CONDUCTOR FOR EXTRA HIGH VOLTAGE 400KV & ABOVE**  
**PCC POLES**  
**INSTALLATION OF CABLES**  
**INSTALLATION OF CABLES UP TO 1.1 KV GRADE**  
**HTUG CABLES**
- CABLE ACCESSORIES FOR TERMINATION**  
**REINFORCED CONCRETE PIPES**  
**RDSO GUIDELINES ON PIPELINE CROSSING UNDER RAILWAY TRACK**


CERTIFICATE :

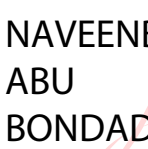
- The structure on either side of the crossing would be effectively earthed.
- The crossing arrangement will comply with recruitment of electricity Rules and Regulations off 1987.
- Danger Board and Anti Climbing device will be provided.
- The structure, foundations & other materials utilised for the crossing are designed to give factor of safety not less than 2.
- The cable will run a depth of 3.0m below the ground level in 160 mm internal dia HDPE pipe.
- The name plate will be fixed on the structure on either end of UG crossing at a height of 3.0 m from the ground level and painted in RED and the following information will be given Electrical Cable (Danger).
- The laying of the cable shall be carried out in accordance with latest edition IS: 1225-1967, code of practice for installation & Maintenance of power cable.
- The detail of equipment provided are designed with the object minimizing danger in the event of occurrence of fault & in accordance with recognized modern Electrical Engineering Practice.
- The crossing will be shifted or modified by the owner of the crossing at the cost of owner as per the agreement whenever Railway authorities sought, the work will be done under the supervision of Railway representative in accordance with the track crossing regulation of the latest edition : 1987.


NOTE:

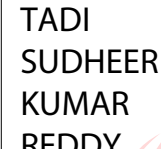
- New 33 kv Under Ground cable crossing the track to suit of 25 KV AC Traction and as per Regulation - 1987.
- All dimension are in meters (Unless otherwise specified).
- As per the site condition on either side of the track proposed for erection of Double Pole structure with structure with RCC Poles with all accessories as advised by the engineer at site.

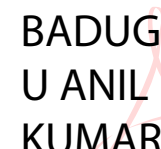
  
AEE/APSPDCL/PNM


  
G MURALI MOHAN  
SSE/E/CN/GTL

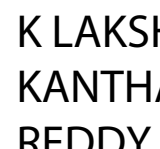
  
NAVEENB ABU BONDADA  
SSE/TRD/CN/GTL

  
S HANUMANTHA RAO  
SSE/TRD/DHNE


  
TADI SUDHEER KUMAR REDDY  
SSE/TRD/DHNE

  
BADUGU ANIL KUMAR  
SSE/Tele/DHNE

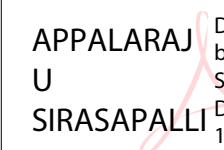
  
B V V HARNADH  
SSE/Sig/DHNE

  
K LAKSHMI KANTHA REDDY  
SSE/P.Way/P/NDL

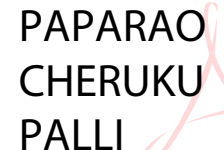
  
Dy.EE/APSPDCL/NDL

  
KAMBATALA SRINIBASH  
DEE/CN/GTL


  
SRINIVASU LU VALLAPI  
ADEE/M/GTL

  
APPALARAJU SIRASAPALLI  
ADEE/TRD/HX

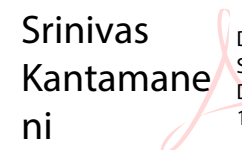
  
M SAI VIJAY KUMAR  
DSTE/M/GTL


  
PAPARAO CHERUKU PALLI  
ADEN/DHNE

  
BODDU YELLAIAH  
Sr.DEE/M/GTL

  
K SUDARSAN REDDY  
Sr.DEE/Tr./GTL

  
BOMMA CHANDRA SHEKHAR  
Sr.DSTE/M/GTL

  
Srinivas Kantamane ni  
Sr.DEN/Central/GTL


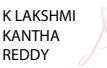
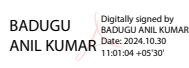



  
GADDAM NARASIMHA RAO  
Date: 2024.11.15 10:39:32 +05'30'

**Title of Way Leave proposal:** Proposed Laying of 33 KV Electrical (UG) power line crossing at KM No. 267/23-25 & 267/22-26 between Panyam (PNM) & Nandyal (NDL) Railway stations.

Sr.DEE/M/GTL's Reference No.: G/E.31/I/918/2024

**Checklist for Joint Proceedings for Way leave proposals (Power line crossings):**

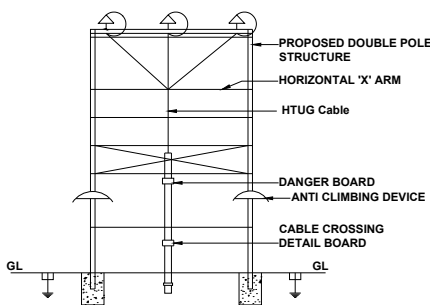
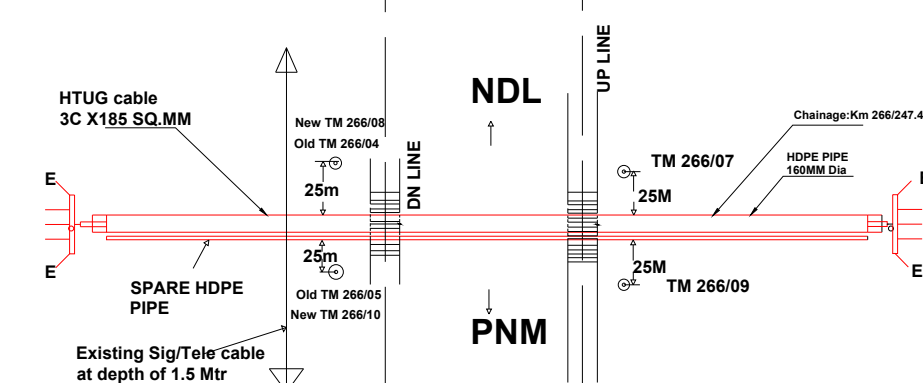
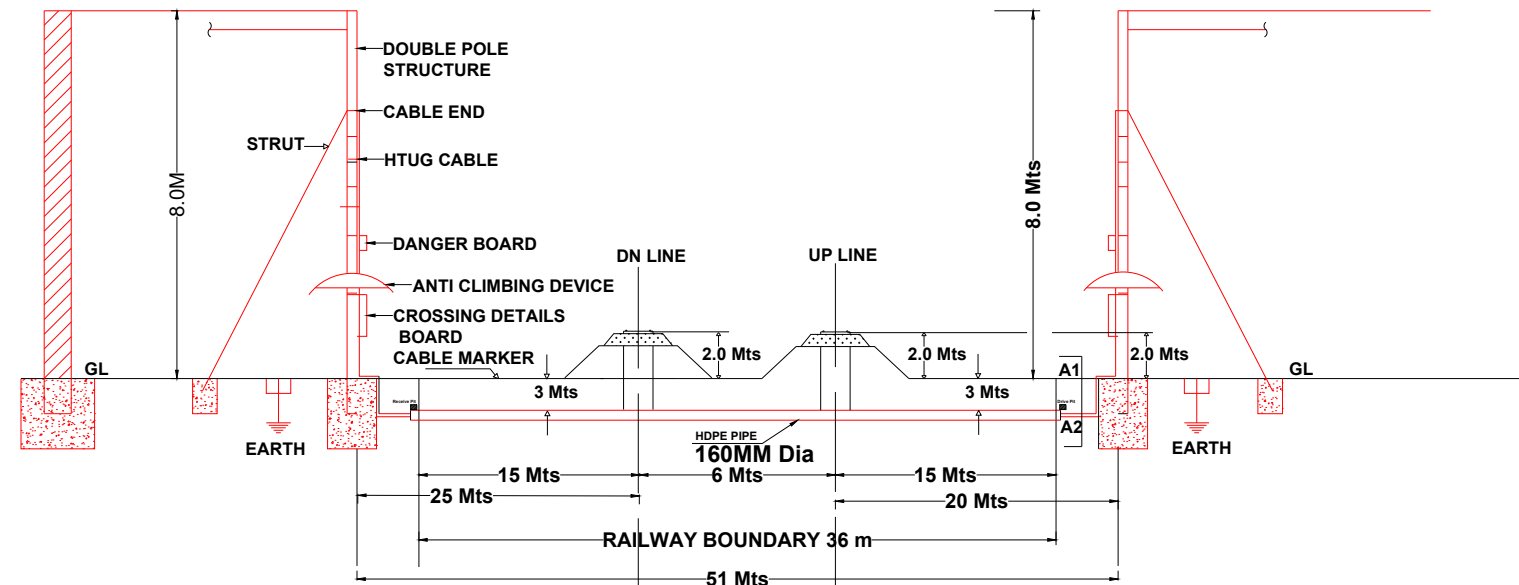
S.N.	Description	Proposed Power line crossing location and measurements	
		UP line	DN line (Under
1	Owner of the crossing/Applicant	EE/operation/APSPDCL/Nandyal	
2	Between stations	Panyam - Nandyal	
3	Location and Kms	267/23-25	267/22-26
	a) Existing Crossing Location	267/11-12 (single line)	
	b) Proposed Crossing Location	--	--
	c) Proposed shifting	267/23-25	267/22-26
4	Voltage of the crossing	33 KV	
5	Distance of the Tower/DP structure from nearest Track centre	19 m	19 m
6	Height of the Tower /DP structure	11 m	11 m
7	Distance between both side structures	44 m	
8	Distance between nearest track centre to Railway boundary	14 m	13 m
9	Distance between track centre of UP line to DN line	6 m	
10	Distance between Railway boundary to boundary	36 m	
11	Distance between nearest T.M. to proposed HDD for commissioning of UG cable (North-side)	10 m	10 m
12	Distance between nearest T.M. to proposed HDD for commissioning of UG cable (South-side)	44 m	48.5 m
13	Height of the Track banks	4 m	5 m
14	Height/depth of the footage of Tower/DP structure with respective to Track	4 m	5 m
15	Km Chainage of proposed Horizontal drilling	Km 267.6236	
16	Distance from nearest power line crossing with details viz., voltage, type of crossing, owner of crossing (if any within 100m)	NA	
17	Distance from nearest bridge (with details) to proposed Horizontal drilling, if any within 100m	NA	
18	Distance from nearest LC gate (with details) to proposed Horizontal drilling, if any within 100m	NA	
19	Distance from nearest Signal (with details) to proposed Horizontal drilling, if any within 100m	NA	
	<b>For UG crossings only</b>		
20	Dia of the HDD	160 mm dia	
21	No. of HDD	2	
22	Type of casing pipe inserting in HDD	HDPE pipe	
23	Dia of the casing pipe	160 mm, thickness: 8.6 mm	
24	Size of the cable	3 core 400 sqmm, 33 KV, Dia: 68 mm	
25	No. of cables	1	
26	Depth of existing Telecom/signal cables from surface level	1.5 m	
27	Depth of proposed Horizontal drilling from the lowest ground level (Sectional diagram must be mentioned)	3 m	
	<b>For OH crossings only</b>		
28	Power and traffic block demanded for both UP & DN lines by the applicant	NA	
29	Vertical clearance from Rail level to lower most conductor		
30	Vertical clearance from top of OHE to lower most conductor		
31	Angle of the crossing with respect to Track		
32	Width of the crossing		
33	Power cum traffic integrated block required	NA	

	 S HANUMANTHA RAO	 K LAKSHMI KANTHA REDDY	 BADUGU ANIL KUMAR	 B V V HARNADH	 TADI SUDHEER KUMAR REDDY	 G MURALI MOHAN
Owner of crossing	SSE/E/M/DHNE	SSE/P.way/NDL(P)	SSE/Tele/DHNE	SSE/Sig/DHNE	SSE/Tr.D/DHNE	SSE/E/Con/GTL

Operation & Maintenance  
PANYAM

Deputy Executive Engineer  
OCC Sub-Division:APSPDCL  
NANDYAL

**Proposed Laying of 11KV underground Power Line Crossing (Double Run) at Km T.P. No.: 266/04-05 Between Panyam [PNM] and Nandyal [NDL] Railway Stations Near Kowluru Vilage**



IS : 3043 :	EARTHING ARRANGEMENT
IS : 4091 :	FOUNDATION FOR TRANSMISSION LINE TOWERS & POLES
IS : 398 : (PART -II) 1990	ALUMINUM CONDUCTOR GALVANIZED STEEL REINFORCED
IS : 398 : (PART -V) 1992	ALUMINUM CONDUCTOR FOR EXTRA HIGH VOLTAGE 400KV & ABOVE
IS : 1678 :	PCC POLES
IS : 1255 :	INSTALLATION OF CABLES
IS : 694 :	INSTALLATION OF CABLES UPTO 1.1 KV GRADE HTUG CABLES
IS : 7098 : (PART -III) 1985	
IS : 13573:	CABLE ACCESSORIES FOR TERMINATION
IS : 458 :	REINFORCED CONCRETE PIPES
BS: 105 :	RDSO GUIDELINES ON PIPELINE CROSSING UNDER RAILWAY TRACK

1. The structure on either side of the crossing would be effectively earthed.
2. The crossing arrangement will comply with recruitment of electricity Rules and Regulations of 1987.
3. Danger Board and Anti Climbing device will be provided.
4. The structure, foundations & other materials utilised for the crossing are designed to give factor of safety not less than 2.
5. The cable will run a depth of 3.0m below the ground level in 160 mm internal dia HDPE pipe.
6. The name plate will be fixed on the structure on either end of UG crossing at a height of 3.0 m from the ground level and painted in RED and the following information will be given Electrical Cable (Danger).
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8. The detail of equipment provided are designed with the object minimizing danger in the event of occurrence of fault & in accordance with recognized modern Electrical Engineering Practice.
9. The crossing will be shifted or modified by the owner of the crossing at the cost of owner as per the agreement whenever Railway authorities sought, the work will be done under the supervision of Railway representative in accordance with the track crossing regulation of the latest edition : 1987.

1. New 11 kv Under Ground cable crossing the track to suit of 25 KV AC Traction and as per Regulation - 1987.
2. All dimension are in meters (Unless otherwise specified)
3. As per the site condition on either side of the track proposed for erection of Double Pole structure with structure with RCC Poles with all accessories as advised by the engineer at site.

AEE/APSPDCL/PNM	<div>Digitally signed by G MURALI MOHAN Date: 2024.10.24 17:07:18 +05'30'</div> <div>NAVEENB ABU BONDADA</div> <div>Digitally signed by NAVEENBABU BONDADA Date: 2024.10.24 17:20:30 +05'30'</div>	SSE/E/CN/GTL	SSE/TRD/CN/GTL	SSE/M/DHNE	SSE/TRD/DHNE	SSE/Tele/DHNE	SSE/Sig./DHNE	SSE/P.Way/P/NDL
Dy.EE/APSPDCL/NDL	<div>Digitally signed by KAMBATALA SRINIBASH Date: 2024.10.24 17:28:05 +05'30'</div>	KAMBATALA SRINIBASH	DEE/CN/GTL	ADEE/M/GTL	ADEE/TRD/HX	DSTE/M/GTL	ADEN/DHNE	
Sr.DEE/M/GTL					Sr.DEE/Tr./GTL		Sr.DSTE/M/GTL	Sr.DEN/Central/GTL