No. RO/VJA/Misc.24/Overhead Crossing/NH-42/S.No.227/268

GOVERNMENT OF INDIA

MINISTRY OF ROAD TRANSPORT &HIGHWAYS

Regional Office, Vijayawada

Raja Marg Bhawan, 3rd & 4th floors, MORTH/NHAI Buildings, Ranigarithota,
Near Kanakadurga Varadhi, Krishnalanka, Vijayawada-520013. Tele: 0866-2571985

Dated: 06.11.2025

Invitation of Public Comments

Sub: Proposed for permission for erection of 132 KV DC/SC line to proposed 132/33 KV SS Mudigubba from 132 KV LIS. Y. Kothapalli crossing of existing highway NH-42 between Kadiri to Mudigubba Section at Km. 147/600 to Km. 147/800 near Patnam village, Kadiri Mandal in the state of Andhra Pradesh- Reg.

Please find enclosed herewith the proposal in accordance with Ministry's latest guidelines dated 22.11.2016 forwarded Executive Engineer(R&B), NH Division, Ananthapuramu vide letter No. 1223/EE/NH/ATP/JTO/2025-26 dated 09.10.2025 dated 09.10.2025 for permission for erection of 132 KV DC/SC line to proposed 132/33 KV SS Mudigubba from 132 KV LIS. Y. Kothapalli crossing of existing highway NH-42 between Kadiri to Mudigubba Section at Km. 147/600 to Km. 147/800 near Patnam village in Kadiri Mandal in the state of Andhra Pradesh.

2. As per the guidelines, issued by the Ministry vide Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.16 and its subsequent amendments, the proposal for Highway crossing permission along National Highways shall be put out in the public domain for 30 days for seeking claims and objections on grounds of public inconvenience, safety and general public interest.

3. In view of the above, comments of the public on the above-mentioned proposal are invited on the address mentioned below:

The Regional Officer,
Ministry of Road Transport and Highways,
Raja Marg Bhawan, 3rd & 4th floors, MORTH/NHAI Buildings,
Ranigarithota, Near Kanakadurga Varadhi,
Krishnalanka, Vijayawada - 520013
Email id: romorthvijayawada@gmail.com.

Yours Faithfully,

06/11/25

(Venkataiah M)
Assistant Engineer
For Regional Officer, Vijayawada

Encl: As above

Copy to:

i) Senior Technical Director, NIC for uploading on the Ministry's website.
ii) The Engineer-in-Chief (R&B), NH&CRF, AP.
iii) The Superintending Engineer(R&B), NH Circle, Ananthapuramu.
iv) The Executive Engineer(R&B), NH Division, Ananthapuramu.

GOVERNMENT OF ANDHRA PRADESH
NATIONAL HIGHWAYS WING

From
C Sudhakara Reddy, B.E, MBA
Executive Engineer,
(R&B) NH Division,
Anantapuramu

To
The Regional Officer,
D No 41-29-45A, 3rd & 4th Floor,
MORt&H/ NHAI Building,
Near Kanakadurga Varadhi,
Vijayawada 520013

Letter No 1223/EE/NH/ATP/JTO/2025-26 Dated 09-10-2025

Sub: (R&B) NH Division, Anantapuramu – APTRANSCO – Erection of Proposed 132 KV DC/SC line to proposed 132/33 KV SS Mudigubba from 132 KV LIS Y. Kothapalli – Crossing of Existing Highway NH 42 Between Kadiri to Mudigubba Section Chainage between KM 147/600 to 147/800 near Patnam (village), Kadiri Mandal - Submission of documents for Overhead power line crossing with NH-42 – Report – Submitted -reg.,

Ref:
1. The Executive Engineer, Construction Division, APTRANSCO, Anantapuramu Letter No EE/Construction Division/ATP/ AEE.T/F.No. 632/ 2025 Dated 26-06-2025
2. Regional Officer, MORT&H Vijayawada letter no RO/VJA/Misc.24/B/ Overhead Crossing/NH42/S. No 227/645 dated 29-08-2025.
3. The Executive Engineer, Construction Division, APTRANSCO, Anantapuramu Letter No EE/Construction Division/ATP/ AEE.T/F.No. 989/ 2025 Dated 04-10-2025

Sir,

With reference to the above, I hereby submit the report for the remarks and observations raised by the Regional Officer, MORT&H, Vijayawada, as detailed below.".

Sl No	Observation	Reply
2(i)	It is observed that inspection report for current proposal is not furnished. In this regard, it is requested to inspect the site conditions and submit the report accordingly.	The Inspection report is herewith enclosed

2(ii)	In S. No. 1.7 of the submitted checklist, it is noted that the available Right of Way (ROW) is 12.00 meters (i.e., 6.00 meters on the LHS and 6.00 meters on the RHS from the centreline towards increasing chainage). However, in the submitted certificate, it is mentioned that "the existing road is 35 meters in the stretch from Km 147/600 to Km 147/800 on the LHS, which is sufficient to accommodate four-laning in the future." in this regard, it is requested to provide accurate Row details at the proposed overhead power line crossing location for further necessary action.	It is submitted that, the available ROW is 20 mts (i.e., 10.00 meters on the LHS and 10.00 meters on the RHS from the centreline). A proposal has been included in the Annual Plan 2025–26 for widening NH-42 from a two-lane to a four-lane configuration from Km 136/400 to Km 158/800 (Mudigubba – Kadiri section). Hence, the proposed width of ROW from the centre of the existing road is 35 m eccentric which is 45mts total ROW in the stretch from KM 147/600 to 147/800 on Left hand side.
2(iii)	The applicant is requested to details the various safety clearances from the respective authorities such as Directorate of Electricity, as well as any of the applicable statutory approvals, prior to submitting the application to the Highway Administration.	The Executive Engineer, Construction Division, APTRANSCO, Anantapuramu has replied in his letter vide reference 3rd cited, **as the scheme is approved by APERC. AP Transco itself a statutory body to taken up the said works as per prescribed norms. Hence necessary safety approvals are not required from any other authorities.**
2(iv)	In the submitted checklist, it is observed that each page of the checklist is yet to be signed/furnished by the concerned field officer.	The signed copy of checklist is herewith enclosed
2(v)	It is observed that the Strip plan is not attached with the proposal. In this regard, it requested to furnish a strip plan along with Row and other required details.	The strip plan is herewith enclosed
2(vi)	As per Ministry Circular No. RW/NH-33044/27/2015-S&R(R) dated 22.11.2016 a format for maintaining records of Right of way permissions granted for Overhead powerline crossing in Annexure-III shall be furnished.	The Annexure -III is herewith enclosed
2.1	in addition to the above, it is requested that the Executive Engineer (R&B), NH Division Anantapuramu, furnish the design, existing chainages, and details of the old and new	The location of power line crossing is at design chainage Km 147/770 and existing chainage is Km 147/770 of NH 42 near Patnam Village, Kadiri Mandal, Sri Satya Sai District on Uravakonda - Kriashnagiri road.

In view of the above, I kindly request the Regional Officer to accord approval for the proposal to cross one 132 KV transmission line at the aforementioned location.

Encl : As above

Yours faithfully,

09/10/25

Executive Engineer,
(R&B) N.H. Division, Anantapuramu.

09/10/25

Copy submitted to the Superintending Engineer (R&B) NH Circle, Anantapuramu for information.

Inspection Report

The location of crossing the 132 KV line was inspected and the following are submitted.

(a) The location of power line crossing is at chainage Km 147/770 of NH 42 near Patnam Village, Kadiri Mandal, Sri Satya Sai District on Uravakonda - Kriashnagiri road is furnished in the drawing.

(b) No part of the foundation of electrical tower will fall in ROW of National Highway.

(c) The electrical towers are proposed erected at more than 30 m from the centre of ROW. i.e., at a distance of 64.0 mts on LHS & 102.0 mts on RHS from centreline of the existing road.

(d) After accounting the maximum possible sag in bottom conductor, the vertical clearance at road crossing point is 12.84 m.

(e) Executive Engineer, Construction Division, APTRANSCO, Anantapuramu has ensured that they will follow the provisions of IRC 32-1969, CEA Regulations/Statutory provisions of Indian Electricity Rules and other relevant guidelines issued.

(f) There is no habitation around the proposed location to the vertical clearance of the Electrical line proposed is 21.41 m, which is more than the suggested clearance for 132 KV line.

(g) Executive Engineer, Construction Division, APTRANSCO, Anantapuramu has proposed to erect the towers on both ends in the private land to maintain 21.41 m clearance from FRL of the existing road which is more than the vertical clearance required.

(h) the Executive Engineer, Construction Division, APTRANSCO, Anantapuramu have submitted the following.

(i) Undertakings on Non-judicial stamped paper of Rs. 50/-.
(ii) License deed for laying overhead electric power line across NH land
(iii) on non-judicial stamped paper of Rs. 50/-.
(iv) Check list for getting approval for laying of overhead electric power line across NH land.
(v) Crossing details at NH.
(vi) Sketch showing crossing of overhead line.

8/10/2025

Assistant Executive Engineer,
(R&B) NH Section, Anantapuramu

8.10.2025

Deputy Executive Engineer,
(R&B) NH Sub Division, Anantapuramu

09/10/2025

Executive Engineer (R&B)
N.H. Division, Anantapur

CERTIFICATE IN RESPECT OF PERMISSION FOR LAYING OF UTILITY LINE OF 132KV DC/SC line to proposed 132/33 KV SS Mudigubba from 132 KV LIS Y. Kothapalli – Crossing of Existing Highway NH 42 Between Kadiri to Mudigubba Section Chainage between KM 147/600 to 147/800 near Patnam (village), Kadiri Mandal.

It is hereby certified as under

1. All the standard conditions issued vide Ministry Circulars are incorporated in the proposal and the same is herewith confirmed.

2. The proposed width of ROW from the centre of the existing road is 35 m in the stretch from KM 147/600 to 147/800 on LHS. It is Sufficient to accommodate Four-laning Road in future.

3. There will be no hindrance to proposed four-laning based on the feasibility report considering proposed structures at the said location.

4. The proposal is confirming to all standard conditions issued vide Ministry's circular number: RW/NH/33044/29/2015/S&R(R) dated: 22-11-2016.

5. The permission after approval will be recorded in a "Register of Permissions" in the prescribed proforma.

8/10/2025

Assistant Executive Engineer,
(R&B) NH Section,
Anantapuramu

8/10/2025

Deputy Executive Engineer,
(R&B) NH Sub Division,
Anantapuramu

09/10/25

Executive Engineer,
(R&B) NH Division, Anantapuramu

Annexure-III

{Enclosure to Ministry Circular No. RW/NH-33044/27/2015-S&R® dated 22-11-2016}

Format for Maintaining Records of Right-Of-Way permission granted for Powerline crossing

(to be maintained separetely for every NH and State)

1 Nae of State : Andhra Pradesh

2 Nage of Agenc : Executive Engineer (R&B) NH Division, Anantapuramu

3 NH Number : NH-42

Sl.No	Location (Chainage in KM)	Left of right side of NH (towards increasing chainage from direction	Section and reach	Kind of service	Name of License and contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MOST sandard norms	Remarks
1	Km.147/600 to 147/800	Road cross (LHS to RHS)	Mudigubba to Kadiri Section	Electrical line APTRANSCO	Executve Engineer, Construction Division, APTRANSCO, Anantapuramu	-	-		No	

8/10/2025

Assistant Executive Engineer,
(R&B) NH Section, Anantapuramu

9.10.2025

Deputy Executive Engineer,
(R&B) NH Sub-division, Anantapuramu

8/10/25

Executive Engineer (R&B)
N.H. Division, Anantapur

Check List

Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with NHAI.

Sl. No.	Item	Information /Status	IE comments
1	General Information		
1.1	Name and Address of the Applicant / Agency	Executive Engineer, Construction Division, APTransco, 33/11KV SS Premises, Bellary raoad, Anantapuramu.	
1.2	National Highway Number	NH-42	
1.3	State	ANDHRA PRADESH	
1.4	Location	Near Patnam Village, Kadiri Mandal, Sri Sathya sai Dist.	
1.5	Chainage / Km	Between KM 147+600 & 147+800	
1.6	Length in meters	27.00 Mtrs **(Crossing overhead)**	
1.7	Width of available Row		
	a) Left side from centre line towards increasing chainage /Kms direction	10 Mtrs	
	b) Right side from centre line towards increasing chainage /km direction	10 Mtrs	
1.8	Proposal to lay the utility line (Over head electrical line)		
	a) Left side from centre line towards increasing chainage /Kms direction	64.00 Mtrs	
	b) Right side from centre line towards increasing chainage /km direction	102.00 Mtrs	
	c) Angle of crossing	88°	
1.9	Proposal to acquire the land	Not Required	
	a) Left side from centre line	-----	
	b) Right side from centre line	-----	
1.10	Whether proposal is in the same side where land is not to be acquired	Not Applicable	
	If not then where to lay the utility line		
1.11	Details of already laid services, if any along the proposed route	Not Applicable	
1.12	Number of existing lanes (2 / 4 / 6 / 8 lanes) existing	4 lanes	
1.13	Proposed number of lanes (2 lane with paved shoulders/ 4 / 6 / 8 lanes)	Not Applicable	
1.14	Service Road existing or not, If yes then which side	No	
	a) Left side from centre line		
	b) Right side from centre line		
1.15	Proposed Service Road	No	
	a) Left side from centre line		
	b) Right side from centre line		

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

Check List			
Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with NHAI.			
Sl. No.	Item	Information /Status	IE comments
1.16	Whether proposal to lay the utility is after the service road or between the service road and main carriage way	01 No. each tower will be erected on either side of the road in private lands and line will be strung across and over head to the road	
1.17	Whether carrying of Utility line has been proposed on highway Bridges. If yes, then mention the methodology proposed for the same	Not Applicable	
1.18	Whether carrying of Utility line has been proposed on the parapet / any part of the bridges. If yes, then mention the methodology proposed for the same.	Not Applicable	
1.19	If crossings of the road involved if Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expanses of the agency owning the line.	Yes, 132KV line is crossing over head of the road	
	a) Whether the existing drainage structures are allowed to carry the utility line.	Not Applicable	
	b) Is it on align normal to the NH	Overhead crossing is at 88° to existing NH	
	c) What is the distance of crossing the utility lines from the existing structures crossing shall not be too near the existing structures on the National Highways. The minimum distance being 15 mts.	No existing Structures	
	d) The casing pipe (or conduit pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe /cable. Mention type of casing	Not Applicable	
	e) Ends of the casing pipe shall be sealed from the outside. So that it does not act as a drainage path.	Not Applicable	
	f) The casing/conduit pipe should be as minimum extend from drain to drain in cuts and toe of the slope in the fills.	Not Applicable	
	g) The top of the casing/Conduit pipe should be at least 1.20m below the surface of the roads subject to being at least 0.30m below, the drain inverts. Mention the proposed details	Not Applicable	

Executive Engineer (R&B)
N.H. Division. Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

Check List			
Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with NHAI.			
Sl. No.	Item	Information /Status	IE comments
	h) Mention the methodology proposed for crossing of road for the proposed utility line. Crossing shall be by boring method (HDD)(Trenchless Technology). Specially, where the existing road pavement is of cement concrete or dense bituminous concrete type.	Not Applicable	
	i) The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a water way along it.	Not Applicable	
2	Document/Drawings enclosed with the proposal		
2.1	Cross section showing the size of the trench for open trenching method (Is it nominal size of 1.20m deep X 0.3m wide) **(i)** Should not be greater than 60Cm wider than the outer diameter of the pipe. **(ii)** Located as close to the extreme edge of the right-of-way as possible but not less than 15 meters from the centre-lines of the nearest carriage way. **(iii)** Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges. **(iv)** These should be so laid that their top is at least 0.60 mts below the ground level so as not to obstruct drainage of the road land.	Not Applicable	
2.2	Cross section showing the size of the pit and location of cable for HDD method.	Not Applicable	
2.3	Strip plan/ route plan showing the utility line chainage, width of ROW, distance of proposed utility line from the edge of ROW. Important milestone intersections, cross drainage works etc.	Yes, Enclosed	
2.4	Methodology for laying over head utility line	Enclosed	
2.4.1	Open trenching method (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, what is the Methodology of refilling of trench.		
	(a) The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe.	Not Applicable	
	(b) For filling of the trench bedding shall be to a depth of not less than 30cm. It shall consists of granular material. Free of lumps, clods and cobbles and graded to yield a firm surface in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Not Applicable	
	(c) The backfill shall be completed in two stages (i) side fill to the level of the top of the pipe (ii) overfill to the bottom of the road crust.	Not Applicable	

Executive Engineer
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

Check List

Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with NHAI.

Sl. No.	Item	Information /Status	IE comments
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor's density. Overfill shall be compacted to the same density as the material that had removed. Consolidation by saturation or pending will permitted.	Not Applicable	
	(e) The road crust shall be built to the same strength as existing crust on either side of the trench. Shall be taken to avoid the formation of a dip at the trench.	Not Applicable	
	(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	Not Applicable	
	(g) If required a diversion shall be constructed at the expense of agency owning the utility line	Not Applicable	
2.4.2	Horizontal directional drilling method (HDD method)	Not Applicable	
2.4.3	Methodology for laying of the utility line through CD works and method of laying In case where the carrying of utility line on the bridge becomes inescapable	Not Applicable	
3	Draft licensee agreement is signed by two witnesses.	Enclosed	
3.1	The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH-33044/29/2015/S&R(R), dated: 22.11.2016 and circular dated 24.04.2023.	Not Applicable as per guidelines vide NH-36094/01/2022-S&R(P&B), Dt. 24.04.2023 at clause 5.2, since the proposed 132KV line support system is placed outside the boundary of NH land area, only the projections such as Panther conductor and earthwire only will pass over the proposed highway through overhead	
4	Whether Performance bank guarantee as per Ministry's guidelines issued vide circular no. RW/NH-33044/29/2015/ S&R(R), Dated 22.11.2016 is obtained.	Not Applicable	
4.1	Confirmation of BG has been obtained are not as per MORTH/ NHAI Guidelines	Not Applicable	
5	Affidavit/ undertaking from the applicant from the following is to be furnished		
5.1	Undertaking not to damage any other utility, If damaged to pay the losses either NHAI or to the concerned agency.	Enclosed	
5.2	Undertaking for renewal of BG as when asked by MORTH/ NHAI.	Not Applicable	
5.3	Undertaking for confirming all standard condition of Ministry circulars and NHAI's Guidelines.	Enclosed	

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

Check List			
Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with NHAI.			
Sl. No.	Item	Information /Status	IE comments
5.4	Undertaking for Indemnity against all damages and claims.	Enclosed	
5.5	Undertaking for management of traffic movement during laying utility line without hampering the traffic.	Enclosed	
5.6	Undertaking that if any claim is raised by the Concessionaire / Contractor then the same has to be paid by the applicant.	Enclosed	
5.7	Undertaking prior approval of NHAI shall be obtained before undertaking any work of installation, shifting or repair of alterations to the utility line located in National Highway right-of-ways.	Enclosed	
5.8	Undertaking that expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by laying, maintenance or shifting of the utility line will be borne by the applicant agency owning the line.	Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MORTH format issued vide ministry's circular number: RW-NH-33044/29/2015/S&R(R) dated: 22-11-2016	Enclosed	
5.10	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as Directorate of Electricity. Chief controller of Explosives. Petroleum and Explosive Safety Organization. Oil Industry Safety Directorate. State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Not Applicable	
5.11	If the MoRTH/NHAI considers it necessary in future to move the utility for any work of improvement or repair to the road, if will be carried out as desired by the MoRTH/NHAI at the cost of agency owning the utility line within the reasonable time (not exceeding 60 days) of the intimation given.	Enclosed	
5.12	Certificate from the applicant in the following format (i) Laying of utility line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) We do undertaking that we will relocate service road/ approach road/Utilities at my/our own cost notwithstanding the permission granted within such time as will stipulated by NHAI for future six lining or any other development.	Enclosed	
6	Who will sign the agreement on behalf of utility line agency	Executive Engineer, Construction Division, APTransco, Anantapuramu.	
6.1	Power of attorney to sign the agreement is available or not.	Competent authority to sign the agreement	

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

Check List

Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with N[illegible]I.

Sl. No.	Item	Information /Status	IE comments
7	The project director will submit the following certificates.		
7.1	Certificate that the proposal is confirming to all standard conditions issued vide Ministry's circular number: RW/NH/ 33044/29/2015/S&R(R) dated 22-11-2016.	Yes	
7.2	Certificate from PD in the following format (i) It is certified that any other location of the utility line would be extremely difficult and unreasonable costly and the crossing of utility line across ROW will not adversely affect the design, stability & traffic safety of the Highway nor the likely future improvement such as widening of the carriageway, easing of curve etc., (ii) For 6-lanning (a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structure at the said location" (b) In case feasibility report is not available "I do certify that sufficient ROW at site for accommodating proposed 6 lining"	Yes	
8	If NH section to be proposed to be taken up by NHAI on BOT basis a clause is to be inserted in the agreement. The permitted highway on which licensee has been granted the right to lay utility line/ duct has also been granted as a right of way to the concessionaire under the concession agreement for upgrading of (..... Section from Km..... to Km..... of NH No:- ..... on Build Operate and Transfer basis) and the licensee shall honours the same.	Not Applicable	
9	Who will supervise the work of laying of utility line		
	a) On behalf of the applicant	Executive Engineer, Construction Division, APTransco, 33/11KV SS Premises, Bellary raoad, Anantapuramu.	
	b) On behalf of MORTH/NHAI	Executive Engineer/Project Director, R&B (NH) Division, Anantapuramu.	
10	Who will ensure that the defects in road portion after lying of utility line are corrected and if not corrected then what action will be taken.		

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

Check List			
Guidelines for processing the proposal of laying Over Head electrical lines across National Highways vested with NHAI.			
Sl. No.	Item	Information /Status	IE comments
	a) On behalf of the applicant	Executive Engineer, Construction Division, APTransco, 33/11KV SS Premises, Bellary raoad, Anantapuramu.	
	b) On behalf of NH	Executive Engineer/Project Director, R&B (NH) Division, Anantapuramu.	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire		
	On behalf of applicant	Executive Engineer, Construction Division, APTransco, Anantapuramu.	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permission in the prescribed Proforma (copy enclosed)	--	
13	If any previous approval is accorded for laying of utility line then photocopy of register of records of permission accorded (as maintained by PD) be enclosed.	--	

Executive Engineer
Construction Division
AP Transco Anantapuramu

Applicant

Executive Engineer

Executive Engineer (R&B)
N.H. Division, Anantapur

TECHNICAL PARTICULARS OF ACSR PANTHER CONDUCTOR

Sl No	TECHNICAL PARTICULARS	ACSR Panther Conductor
		30/3+7/3mm
1	Indian standard to which earth wire conforms	IS:2141
2	Area of cross-section (Sq mm)	261.50
3	Nominal overall diameter(mm)	21
4	Maximum working tension(Kg)	9143
5	Guaranteed UTS	9143
6	Weight of Coductor (Kg/ km)	974
7	Modulus of Elasticity E (Kg/mm2)	8155

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu

TECHNICAL PARTICULARS OF OPGW

Sl No	TECHNICAL PARTICULARS	OPGW
		7/3.15mm
		Kg/mm^2
1	Indian standard to which earth wire conforms	IS:2141
2	Area of cross-section (Sq mm)	54.52
3	Nominal overall diameter(mm)	9.45
4	Maximum working tension(Kg)	8371
5	Guaranteed UTS	8371
6	Weight of Earth wire(Kg/ km)	488
7	Modulus of Elasticity E (Kg/mm2)	19330

Executive Engineer (R&B)
N.H. Division, Anantapur

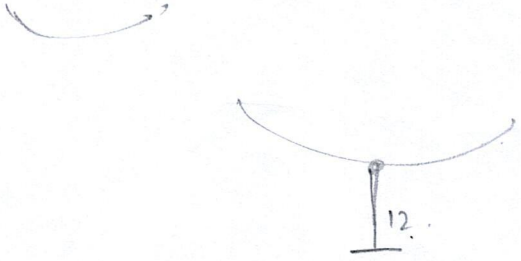
Executive Engineer
Construction Division
A P Transco Anantapuramu

CROSSING DETAILS

Name of the line	Erection of 132KV DC/SC line to proposed 132/33KV SS Mudigubba from 132KV LIS Y.Kothapalli in Sri Sathya Sai Dist.,
Crossing	NH-42 near Patnam (Village), Kadiri (Mandal) Crossing Location will be **Location No. 45** & **Location No. 46** between Km 147+600 & 147+800
Crossing towers	Location No. 45, TSP C+6 Location No. 46, TSP C+6
Crossing span	166 mts
Distance from road side	Loc No. 45 - 102.00 Mtrs (from NH center) Loc no. 46 - 64.00 Mtrs (from NH center)
Line crossing at Max sag	12.84 mtrs
No of Phases and conductors	6 Phases, 1 conductor/Phase
Systems of supply (i.e. Voltage, Frequency, No of Phases, whether neutral is earthed or	132 KV AC, 50 Hz, Three phase, Neutral earthed at station end.

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu



M/s. TRANSMISSION CORPORATION OF ANDHRA PRADESH LTD National Highway No: 42 Crossing of 132KV DC/SC line to proposed 132/33KV SS Mudigubba from 132KV LIS Y.Kothapalli at Patnam (Villiage), Kadiri (Mandal), Sri Sathya Sai District.

Methodology of carrying out the Stringing activities

1) The aim of this exercise is to carry out the stringing of 132KV power line across the National Highway No.42 between the tower Location No. 45 and 46 with the span of 166 metres. The distance of the tower Loc. No. 45 from centre line of the road is 102 metres and of Loc. No. 46 is 64 metres. After stringing a clearance of 12.80 metres would be maintained from the road surface to the bottom most conductor of the line.

2) Wooden/metal scaffolding of 8 metres height 3 metres width would be installed on either side of the National Highway-42. A distance of 10 metres would be kept from the edge of the highway to the edge of the scaffolding to provide safe distance in case of collapse of scaffoldings. This scaffolding would be carrying only earth wire.

3) Earth wire would be strung first. To pass earth wire over the road, a polypropylene rope (Pilot rope) would be extended from scaffolding of one side and connected to the edge of the earth wire which would be on the scaffolding on other side. Once the connection is made, the pilot rope is pulled with tractor on the other side taking the earth wire on the wooden scaffolding. While pulling the Earth wire due to self-weight the earth wire will take catenary shape and hence traffic need to be stopped for about 15 minutes.

4) Once the earth wire is pulled completely it would be connected to the ends of the peak.

5) Later the 6 conductors will be dragged in the same manner as said above in case of earth wire by making up them on one side and every time there needs to be stoppage of traffic for about 15 minutes with time gap between one conductor and another. Likewise all three conductors will be lifted, and final stringing will be completed one by one.

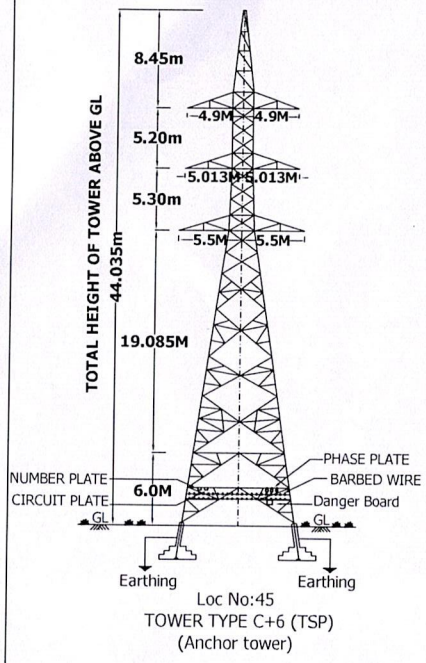
6) During the above process every effort will be kept maintaining clearance from road and 15 to 20 minutes blockage of traffic would be necessary intermittently.

7) All Safety measures shall be followed as insisted by NHAI at the time of execution of work.

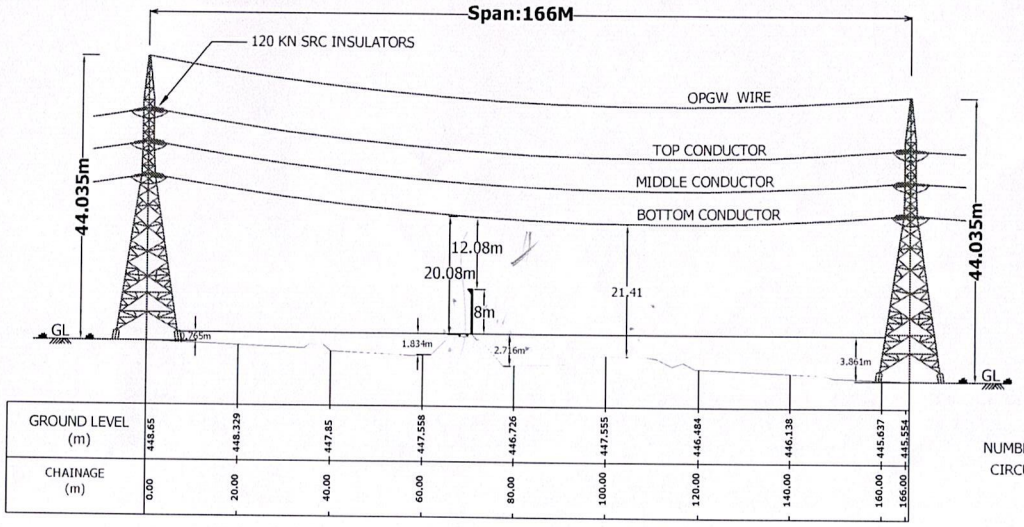
Executive Engineer (R&B)
N.H. Division, Anantapur

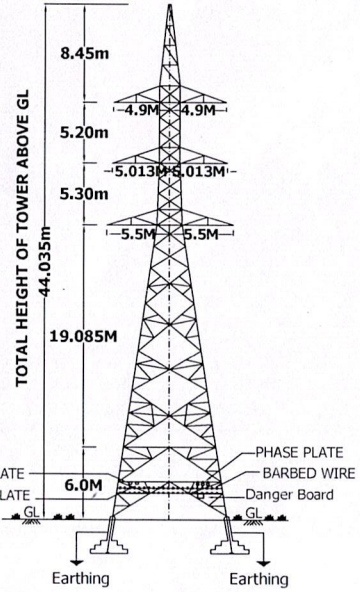
Executive Engineer
Construction Division
A P Transco Anantapuramu

DETAILED CROSSING OF 132KV DC/SC LINE TO PROPOSED 132KV SS MUDIGUBBA FROM 132 KV SS Y . KOTHAPALLI CROSSSING OF EXISTING KADIRI- MUDIGUBBA NH-42 BETWEEN KM 147+600 & 147+800.

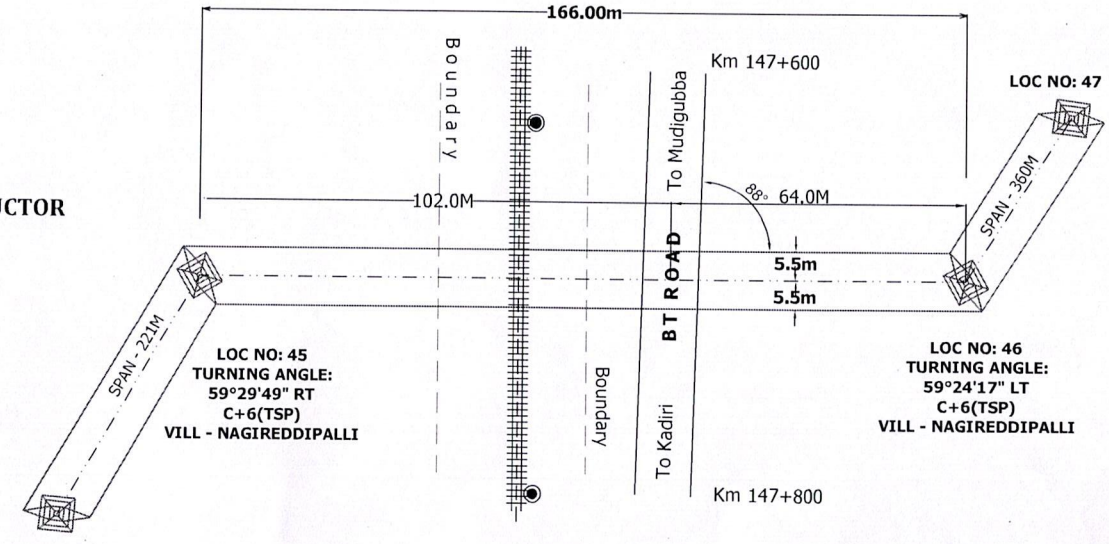


Loc No:45
TOWER TYPE C+6 (TSP)
(Anchor tower)





Loc No:46
TOWER TYPE C+6 (TSP)
(Anchor tower)



NOTE : WIDTH OF POWER CONDUCTOR CROSSING 11.0 MTRS

SAG TENSION CALCULATIONS

Conductor Name	: ACSR Panther
Conductor Diameter	: 2.100 cm
conductor cross section area	: 2.615 cm2
Conductor Unit Weight	: 0.974 kg/m
Conductor Ult. Tensile Strength	: 9144.0 kg
Tension at 5°c and nil Wind	: 2816.0 kg (Sag: 3.891m)
Tension at 75°c and nil Wind	: 1732.0 kg (Sag: 6.326m)
Normal Span (Ruling Span)	: 300 Mtr.

CERTIFICATE

1. THE STRUCTURE, FOUNDATIONS, CONDUCTOR AND OTHER MATERIALS UTILIZED FOR THE CROSSING ARE DESIGNED TO GIVE THE REQUIRED FACTOR OF SAFETY AS STIPULATED IN THE REGULATIONS FOR ELECTRICAL CROSSINGS OF RAILWAY TRACKS UNDER THE WORST CONDITIONS.
2. THE PROPOSED OVER HEAD CROSSING PROVIDES CLEARANCES AS STIPULATED IN THE SCHEDULE OF DIMENSIONS OF INDIAN RAILWAYS AND AS STRUCTURALLY SAFE.THE STRUCTURE HAS BEEN DESIGNED AS PER IS CODE 229, 2758:456.
3. ALL MATERIALS AS PER IS/B.S SPECIFICATIONS.
4. THE CROSSING WILL COMPLY WITH THE TERMS AND CONDITIONS SPECIFICATION OF AGREEMENTS/MEMOS OF TERMS AND REGULATIONS GOVERNING THE PLACING OF ELECTRICAL TRANSMISSION LINES ACROSS THE RAILWAY TRACK ISSUED BY THE RAILWAY BOARD AND FACTOR OF SAFETY STIPULATED THERE IN.
5. THE CROSSING WILL ALSO COMPLY WITH INDIAN ELECTRICITY ACT 1910 AND RULES FRAMED THEIR MODIFICATION.
6. THE EQUIPMENT PROVIDED IS DESIGNED WITH THE OBJECT OF MINIMUM DANGER IN THE EVENT OF BREAKAGE/FAULT AND IN ACCORDANCE WITH RECOGNIZED MODERN ENGINEERING PRACTICE.

Executive Engineer (R&B)
N.H. Division. Anantapur

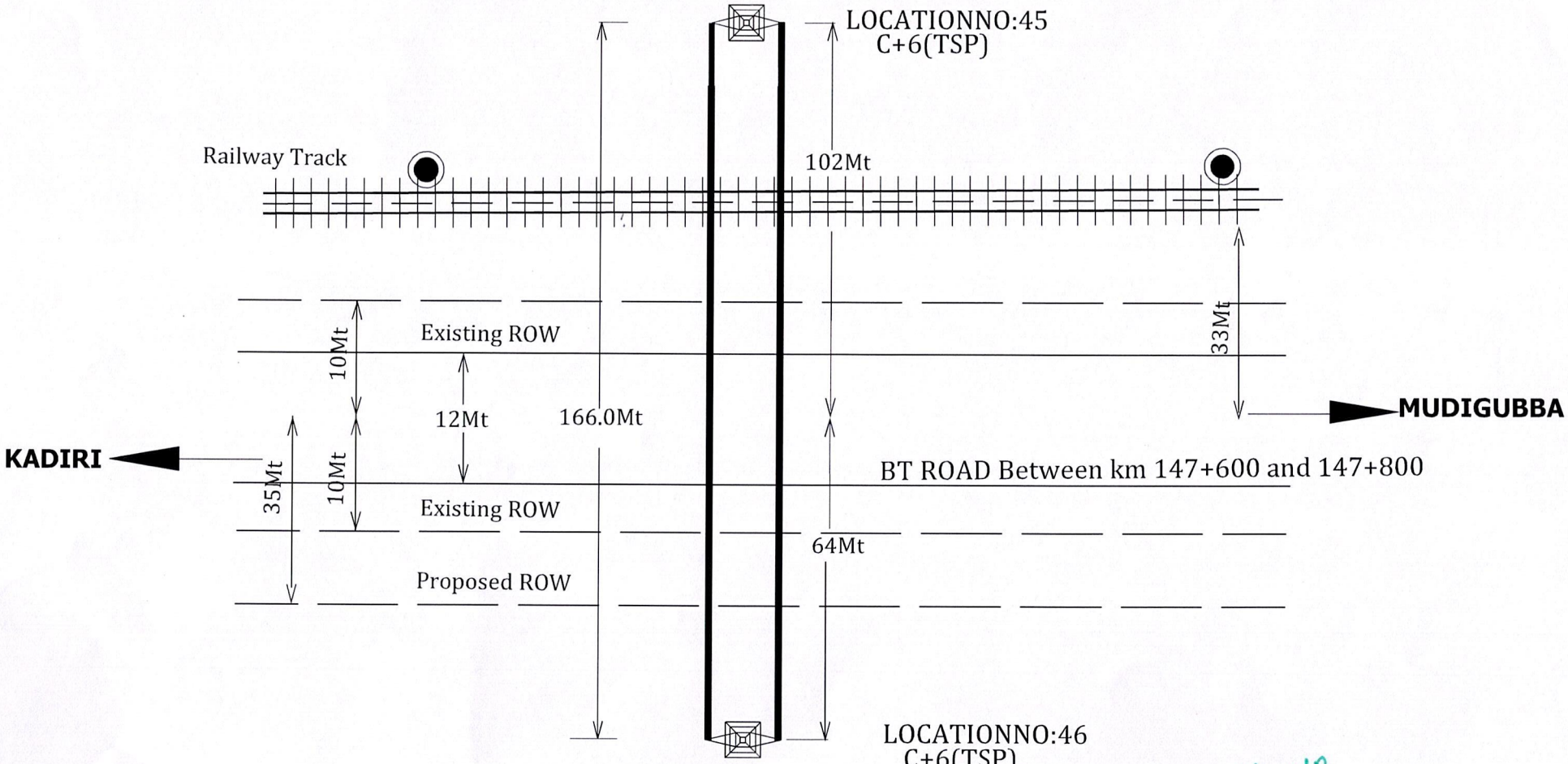
Executive Engineer
Construction Division
A P Transco Anantapuramu

AP TRANSCO

PROJECT:- ERECTION OF 132KV DC LINE FROM EXISTING 132/33KV SUB-STATION Y KOTHAPALLI TO PROPOSED 132KV SS MUDIGUBBA IN SRI SATHYA SAI (DIST).

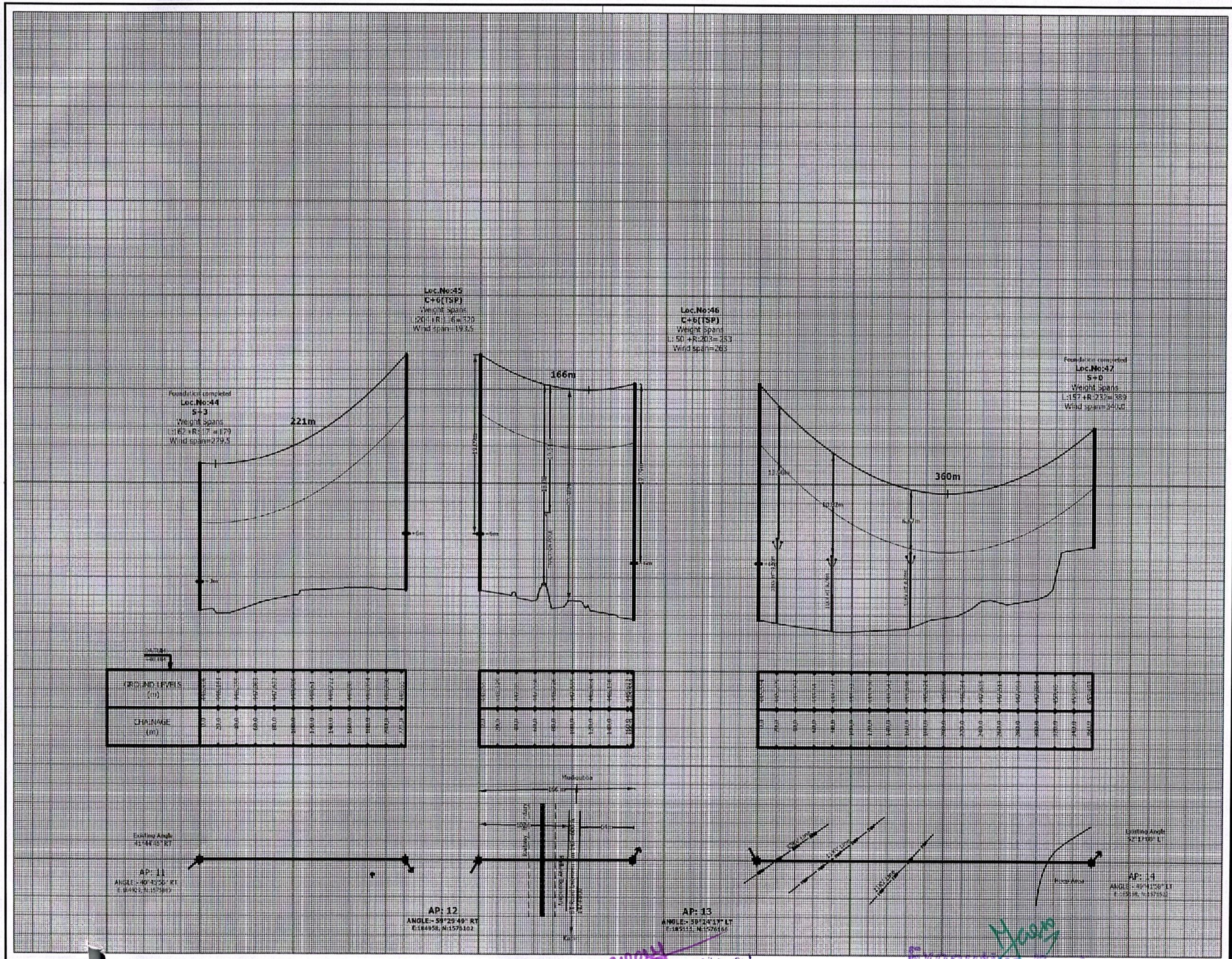
TITLE:- **DETAILED CROSSING OF 132KV DC/SC LINE TO PROPOSED 132KV SS MUDIGUBBA FROM 132 KV SS Y . KOTHAPALLI CROSSSING OF EXISTING KADIRI- MUDIGUBBA NH-42 BETWEEN KM 147+600 & 147+800.**

PLAN SHOWING 132KV OVER HEAD ELECTRICAL LINE



Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu



TOWER SPOTTING DATA FOR 132 KV DC TRANSMISSION LINE

1). Conductor	ACSR Panther CONDUCTOR
2). Cable Diameter	21.00mm.
3). Area	261.5mm2
4). Unit Weight	0.974 Kg./M.
5). Sag Tension At 75°(For Hot Curve)	1732.0 Kg.
6). Normal Span (Ruling Span)	300 Mtr.
7). Maximum Sag (@ 75°Temperature)	6.326 Mtr.
8). Ground Clearance	6.25 Mtr + (Including Sag Error)
9). Height of Bottom Conductor	12.58 Mtr.

Scale:-

Horizontal Scale:- 1:2000 (1 cm = 20m)

Vertical Scale:- 1:200 (1 cm = 2m)

CLIENT:	APTRANSCO AP TRANSCO
SURVEY CONSULTANTS	M/s. D.VENKATESWARLU CIVIL EHT LINE SURVEY CONTRACTOR NELLORE 524004
PROJECT TITLE:	DETAILED CROSSING OF 132KV DC/SC LINE TO PROPOSED 132KV SS MUDIGUBBA FROM 132 KV SS Y . KOTHAPALLI CROSSSING OF EXISTING KADIRI- UDIGUBBA NH-42 BETWEEN KM 147+600 & 147+800.

PROFILE LENGTH:- 747M, LOC.NO:- 44 - 47.

SURVEYED BY

D.Venkateswarlu

D.VENKATESWARLU
Survey Contractor

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
AP Transco Anantapuramu

Executive Engineer (R&B)
N.H. Division, Anantapur

Executive Engineer
Construction Division
A P Transco Anantapuramu