

- Sub: NHAI RO Hyderabad PIU Mahabubnagar- Proposal for crossing of 400 KV QMDC line between Km.77+000 to Km. 78+000 at Km.77+567 near Macharam Village in Jadcherla Mandal and Mahabubnagar District across Hyderabad to Bangalore section of NH-44 in the State of Telangana- Reg..
- Ref:
 1. PIU Hyd lr no. NHAI/PIU-HYD/NH-44/AP-3/TSTRANSCO/2022/1521, dt 17.10.2022

 2. PIU Mbnr lr no. NHAI/PIU-HYD/NH-44/AP-3/TSTRANSCO/2022/ dt 22.12.2022

The Project Director, NHAI vide letters cited above has recommended the Proposal of Executive Engineer, TS TRANSCO, Erragadda for crossing of 400 KV QMDC line between Km.77+000 to Km. 78+000 at Km.77+567 near Macharam Village in Jadcherla Mandal and Mahabubnagar District across Hyderabad to Bangalore section of NH-44 in the State of Telangana.

2. As per para 4 of the Ministry's guidelines no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, public comments is hereby invited on the above proposal seeking claims and objections (on grounds of public inconvenience, safety and general public interest) within 30 days on public portal i.e. website of Ministry of Road Transport and Highways (www.morth.nic.in) in Form-A (copy enclosed) for "Accommodation of Public and Industrial Utility Services along and across National Highways".

<u>Comment Inviting Authority</u> The Regional Officer, National Highways Authority of India, Regional Office: Hyderabad, First Floor, New Building, Administrative Staff College of India(ASCI), College Park Campus, Road No.3, Banjara Hills, Hyderabad - 500 034, Telangana State, Phone: 040-29562147, 040-29562148, Email: rohyderabad@nhai.org, nhairohyd@gmail.com

Encls: Above Proposal

Yours faithfully,

(V. Nagamani) Dy General Manager(Tech) For Regional Officer-cum-Highway Administrator, Hyderabad

To:

- 1. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website.
- 2. Shri S.Manivasagam, Dy. GM (IT), NHAI HQs, New Delhi for uploading on NHAI website. Copy to:- The PD, PIU Mahabubnagar & PD, PIU Hyderabad: for information

कारपोरेट कार्यालय : जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075. वेबसाईट : http://www.nhai.org Corporate Office : G-5 & 6, Sector-10, Dwarka, New Delhi - 110 075. Website : http://www.nhai.gov.in

FORM-A

Form for seeking claims and objections (on grounds of public inconvenience, safety and general public interest) on the application for Accommodation of Public and Industrial Utility Services along and across National Highways

Sub: NHAI - RO Hyderabad - PIU Mahabubnagar- Proposal for crossing of 400 KV QMDC line between Km.77+000 to Km. 78+000 at Km.77+567 near Macharam Village in Jadcherla Mandal and Mahabubnagar District across Hyderabad to Bangalore section of NH-44 in the State of Telangana-**Reg**.

The claims and objections (on grounds of public inconvenience, safety and general public interest) by the general public needs to be given within 30 days of uploading the online application for comments

SI. No	Item	Details
1	Name of the person who is desiring to give claims and objections (on grounds of public inconvenience, safety and general public interest)	
2	Address of the person	
3	Details of the application for Accommodation of Public and Industrial Utility Services along and across National Highways against which claims and objections are being given (name of applicant and other details like site address etc.)	
	 a) Application No. b) Name of applicant (who applied to Accommodation of Public and Industrial Utility Services along and across National Highways) 	
4	c) Details of Application The claims and objections (on grounds of public inconvenience, safety and general public interest)	



National Highways Authority of India (Ministry of Road Transport and Highways) Project Implementation Unit - Mahabubnagar Email: <u>piumahabubnagar@nhai.org &</u> <u>nhaipiumbnr@gmail.com</u>



NHAI/PIU-Mbnr/NH-44/AP-3/TSTRANSCO/2022/

22.12.2022

То

The Regional Officer National Highways Authority of India Regional Office, First Floor, New Building, Administrative Staff College of India (ASCI), College Park Campus, Road No.3 Banjara Hills, Hyderabad-500034, Telangana

- Sub: NHAI, PIU-HYD 4 laning of Km. 34.1 (Farukhnagar) to Km. 80 (Jadcherla) and (II) Improvement, Operation and Maintenance of Km. 22.3 (Thondupalli) to Km. 34.1 (Farukhnagar) on NH-7 in the state of Andhra Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) basis-NS2/BOT/AP-3/- proposal for overhead crossing of NH-44 between Km. 77 and Km. 78 by 400/11 kV near Macharam Village, Jadcherla Mandal - Compliance Submitted - Reg.
- Ref: i. EE -I lr. no. EE-II/400kV/Const./Rural/Erg/Hyd/F.PRLIS/D.No.115/22 dated: 05.05.2022
 - ii. PIU-Hyd lr. No. NHAI/PIU-HYD/NH-44/AP-3/2022/874 dated: 30.05.2022
 - iii. I.E lr. No. AA/TL/AP-03/NH-33/NHAI/2349/22-23/1339 dated: 27.07.2022
 - iv. T/o lr. No. NHAI/PIU-HYD/NH-44/AP-3/TSTRANSCO/2022/1521 dated: 17.10.2022
 - v. RO-Hyd lr. No. NHAI/RO-HYD/25011/1/56/2022/Utility/1979 dated: 25.10.2022
 - vi. PIU-Hyd lr. No. NHAI/PIU-HYD/NH-44/TSTRANSCO/2022/1585 dated: 02.11.2022
 - vii. EE -I lr. no. EE-II/400kV/Const./Rural/Erg/Hyd/F.PRLIS/D.No.917/22 dated: 17.12.2022

Sir,

This has reference to the proposal received in this office from Executive Engineer - 1, 400kV/Const/Rural for supply, erection, Testing & Commissioning of 400kV QMDC line from 400/11kV Maheshwaram 400KVSS to proposed 400/11kV Uddandapoor LISS under palamoor-Ranagreddy Lift Irrigation Scheme - crossing NH-44 between Location No. AP-54/0 & AP-55/0 near Macharam village, Jadcherla Manadal Mahabubnagar District on the subject stretch. Same was sent to Regional Office, Hyderabad for approval vide letter dated: 17.10.2022.

2. In this connection, certain observations have been raised by the Regional Office vide letter dated: 25.10.2022 and same had been communicated to Executive Engineer vide this office letter dated: 02.11.2022.

3. Executive Engineer vide letter dated: 17.12.2022 submitted the pointwise compliance and same is given below:

S.No	Observation	Compliance
i	From the drawings, checklist, and PDs recommendation letter, the location of the transmission line crossing is not clear. Therefore, it is requested to mention the exact chainage in all the documents such as checklist, drawings clearly.	Executive Engineer has mentioned that the crossing falls at Km. 77+567 near Macharam village in Jadcherla Mandal and Mahabubnagar District.
ii	The vertical clearance from the lowest point of the Earth Wire to the top of the road shall be clearly brought out in the checklist, and drawings	Revised checklist and drawings are enclosed.
iii	It is also observed that the subject proposal has not been received in the online portal. As per the directions issued by Ministry of Road Transport & Highways (North II Zone), vide no. NOC enhancement/NIC/MoRTH/2022/1, dated 13.05.2022. Therefore, PD is requested to direct the applicant to submit the proposal in online portal at https://morthnoc.nic.in immediately.	Application has been uploaded on MoRTH NOC portal vide application No. 20221123/1/4/17545/1706 dated: 23.11.2022.

4. In view of the above, compliance is hereby submitted for the approval of Competent Authority.

Yours faithfully

(Yogesh Tilak) Project Director

Copy to: Executive Engineer-I 400KV/Const/Rural - for information and necessary action



TRANSMISSION CORPORATION OF TELANGANA LIMITED

From The Executive Engineer-II, 400kV/Const/Rural, Erragadda, Hyderabad,

To The Project Director, National Highways Authority of India, Project Implementation Unit, 25A & 28A, Administrative Staff College of India, College Park Campus, Road No.3, Banjara Hills, Hyderabad-500034, Telangana.

Lr.No. EE-II/400kV/Const./Rural/Erg/Hyd/F.PRLIS/D.Nol17/22,Dtl7-12-2022.

Sir.

Sub: TSTRASNCO 400kV/Const./Rural/Hyd- Supply, Erection, Testing & Commissioning of 400kV QMDC line from 400/11kV Maheshwaram 400KVSS to proposed 400/11 kV Uddandapoor LISS under Palamoor- Rangareddy Lift Irrigation Scheme crossing NH-44 between KM Stone No.- 77 & 78 at Chainage 567m from KM Stone No-77 near – Macharam Village, Jadcherla Mandal- Resubmitting after attending certain remarks – Arrange to accord for NOC- Regarding.

Ref:- NHAL/PUI-HYD/NH-44/TSTRANSCO/20220/1585 dated 02-11-2022.

TSTRANSCO is constructing 400KV QMDC line from 400/200KV Maheshwaram SS to

proposed 400/11 kV Uddandapur LISS under Palamoor- Rangareddy Lift Irrigation Scheme.

The above 400kV QMDC line is crossing the NH44 between KM Stone No.- 77 & 78 at

Chainage 567m from KM Stone No-77 near Macharam Village, Jadcherla Mandal, Mahaboobnagar

District. In this connection, as per the recommendations made by NHAI, we are re submitting as and ensure as follows:

In reference 1st cited above, certain remarks communicated the same has been attended as follows:

Point No. I. From the drawing, checklist and PDs recommendation letter, the location of the transmission line crossing is not clear. Therefore, it is requested to mention the exact chainage in all the documents such as checklist, drawings clearly.

Reply: The copy of statement is herewith enclosed clearly mentioned in annexsue-1.

Point No. II. The vertical clearance from the lowest point of the Earth wire to the top of the road shall be clearly brought out in the checklist, drawings.

Reply: Drawing is herewith enclosed clearly showing conductor to existing road.

Point No.III. It is also observed that the subject proposal has not been received in the online portal. As per the directions issued by Ministry of Road Transport & Highways (North II Zone), vide no. NOC enhancement/NIC/MORTH/2022/1, Dt: 13.05.2022. Therefore. <u>PD is requested to direct the applicant to submit</u> the proposal in online portal at <u>http://morthnoc.nic.in</u> immediately. Online portal applied on 23.11.2022 vide application reference no. 20221123/1/4/17545/1706 (applied copy is herewith enclosed).

Hence, it is requested to arrange to issue NOC to carry out the stringing activity for the subject line at the earliest. Your early action is very appreciable.

Yours faithfully

Executive Engin

400kV/ Const/Rural, Erragadda/ Hyderabad,

Copy Submitted To:

Reply:

The Superintending Engineer/400kV/Const./Rural/Erg./Hyderabad - for information please,

Copy To:

The Asst. Executive Engineer/400kV/SD-1/Const/Rural/Hyderabad.

Annexure-1

18

TRANSMISSION CORPORATION OF TALANGANA LTD.

HYDERABAD-BANGALORE NH-44 Crossing between KM Stone No. 77 & 78 for Construction of 400kv QMDC Line From 400/220kv Maheshwaram SS To Proposed 400/11kv Uddandapur SS Under Palamuru-Rangareddy Lift Irrigation Scheme Transmission Line between Location No.-AP54 (DD+06) & Location No-AP55 (DD+03).

<u>Name of Transmission Line</u>: <u>400kv QMDC Maheshwaram - Uddandapur Transmission</u> Line

1.	Situation of the EHV Transmission line crossing on National Highway.	On Hyderabad-Bangalore NH-44 between KM Stone No 77 & 78 at Chainage 567m from KM Stone No-77 near – Macharam Village.
2.	Angle of crossing of the transmission line with the National Highway at crossing point	86 ⁽¹⁾ 43' 11''
3.	The length of the span at the crossing and also those on either side of the crossing	A) Crossing span 247 Mt.B) Preceding span 400 Mt.C) Succeeding span 370 Mt.
4.	In the event of the transmission line deviating at any of the supports of the crossing necessitating one of	Location No.
	the structures to be corner structures, state angle of such deviation the deviation of the span on either	AP54/0 DD+06 (4° 07' 31" RT)
	side of crossing shall be illustrated in the sketch mentioned in the clause 2 above.	AP55/0 DD+03 (1° 53' 40" LT)
5.	The number, size and the material of the conductors and wires crossing the NH each wire under phase, neutral each, guard, bearer and ground cross wire	QUAD BUNDLE ACSR Moose Conductor dia 31.77 mm, Unit Weight 2.004 Kg/m.
	should be separately described and their disposition indicated by means of sketch.	a. (54/3-18 mm AL+7 /3.18 mm Steel) Overall Diameter of Earth wire – 10.98 mm. Unit weight 0.583 kg/m
6.	Indicate whether the proposed guard is to be restricted to the crossing span or it is to be continued over the adjacent span.	Not Applicable
7.	The deviation of the span on either side on the crossing shall be illustrated in the sketch mentioned in the clause 2 above.	Enclosed in sketch.
8.	System of supply (i.e. Voltage) frequency, No. of phases, whether neutral is earthed or not.	400 KV, 50 Hz, 06 Phase Double Circuit with 1No. Earth Wire & 1 No. OPGW of 24 fibers.
9.	Height of structure above ground and below ground separately and details of foundation.	 A) Location No. AP54/0 (DD+06,+1.5m RC) height above GL 57.010 M, depth below GL 3.500 M B) Location No. AP55/0 (DD+03,+1.5m RC) height above GL 54.010 M, depth below GL 3.500 M



10.	Height above ground level of (1) Lowest conductor	Location No. $AP54/0 DD+06 = 29,526 M.$
	on insulator and (2) guard wire on bracket above ground level.	Location No. AP55/0 DD+03 =26 526 M
11.	Height of road FL above ground level measured at	Location No. AP54 DD±06 = 1.97 M.
	the foot of the structure.	Location No. $AP55 DD+03 = 1.60 M$.
12.	Clearance under maximum sag condition between road FL and the lowest live conductors & between road level and lowest guard wire (State if "box" type guarding is provided in case of adoptions of unearthed neutral system).	At Road = 17.50 M (Vertical claerence).
13.	Ultimate Tensile stress of the steel wire used for guard for earth wire in tones per Sq. Cm.	Not applicable
14.	Approximate distance of each of the structures to the	Location No. AP54/0 DD+06 =126.59 M.
	nearest ROAD.	Location No. AP55/0 DDS+03 = 90.46 M
15.	Are the proposed structure is in NH boundary.	Outside NH boundary.
16,	Are approved anti-climbing devices and warning notices provided on the structures erected.	Danger Plates & Anti Climbing Devices are provided on both the Towers.
17.	Dimensions and types of brackets used for the cross arms as well as for the guard wires.	Not applicable for transmission Line.
18.	In each structure of the crossing span independently earthed by means of an earth plate.	Yes, each structure is earthed.
19.	In each structure supported by means of stage in three directions give the size of guy wires. (the neglected in calculating the strength of structure).	No. guys or stays are provided structures are self supporting.
20.	If no guard is provided, in the transmission line protected by device to ensure instantaneous isolation is conduction?	Yes, the transmission line is protected instantaneously by high speed protection relays with carrier equipment.
21,	Type of insulators used.	Disc Insulator of electromechanical strength = 160 KN.
22.	State the method of maintenance to be employed to ensure the following protections.	
a)	From overhanging or decaying trees which might fall on the line.	a) Tree clearance to a width of 23 M is done ir either side of line centre.
b)	To reduce the hazard to life and property.	b) Warning boards are provided.
c)	Supporting structure including guys, from the danger of being struck by moving road vehicle.	c) Structures are at safe distance from road.
23.	Drawing showing details of crossing disturbance of road, ground or attachment that may be necessary (To be supplied in quadruplicate.)	25. Enclosed.

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executive Engineer-II 400KV/Const/Rural STR/WSCO Emagadda Hvd-45

Asst. Executive Engineer 400 KV/ Const./SD-I /Rural TSTRANSCO, Erragadda, HYD-45

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CHECK-LIST

FOR Hyderabad-Bangalore NH-44 Crossing between km stone no.- 77 & 78 for Construction of 400ky QMDC Line From 400/220ky Maheshwaram SS To Proposed 400/11ky Uddandapoor SS Under Palamuru-Rangareddy Lift Irrigation Scheme Transmission Line

S.NO.	DESCRIPTION	DETAILS
1.	Name of the Applicant	Executive Engineer-II
2.	Address of the Applicant	Executive Engineer, No.2E7/2, GTS Colony, Erragadda, Hyderabad, Telangana-500045.
3.	National Highway Number	NH-44
4.	Name of Crossing	Hyderabad-Bangalore, NH-44 Road.
5.	SYSTEM OF SUPPLY (i.e VOLTAGE) FREQUENCY NO.OF PHASES, WHETHER NEUTRAL IS EARHTED OR NOT	400 KV QMDC, A.C., 1 EW AND 1 OPGW.
6.	Position of towers	BETWEEN LOC.AP54/0 DD+06 & AP55/0 DD+03
7.	NORMAL SPAN AT LAPWING CONDUCTOR	400 M.
8.	MAX.SAG AT NORMAL SPAN	13.262 M.
9,	CROSSING SPAN	247 M.
10,	Preceding span	400 M.
1E,	Succeeding span	370 M.
12.	Height of structure above ground and below	A) Location AP54/0, DD+06,1.5m RC. height above GL 57.010 m, depth below GL 3.550m.
	ground separately and details of foundation	 B) Location AP55/0, DD+03, 1.5m RC height above GL 54.010m M, depth below GL 3.550m

13.	Max. SAG OF QUAD BUNDLE ACSR MooseCONDUCTORSIZE 54/3 18mm AL +73.18mm at Crossing	4.60 M
14.	CLEARANCE OVER ROAD	17.50 M (Vertical Clarence from Existing road)
15.	Height above ground level of (1) Lowest conductor on insulator above ground level	29.526 & 26.526 M Respectively.
16.	Height of road FL above ground level measured at the foot of the structure.	Location No. AP54/0 DD+06 = 1.97 M. Location No. AP55/0 DD+03 = 1.60 M
17.	Angle of road crossing	86 [°] 43′ 11′′
18.	Distance from NH From center of tower	Loc. No. AP54/0 DD+06 = 126.59 M. Loc. No. AP55/0 DD+03 = 90.46 M
19	Perpendicular distance from center of tower to road	Loc. No. AP54/0 DD+06 = 127.39 M. Loc. No. AP55/0 DD+03 = 91.5M
20.	Protection of assembly to the line	NA
21.	No. of stay required	NO,
22.	Minimum Factor of Safety	Normal Condition-02 Broken Wire Condition-1.50.
23.	Size of power conductor mm.	QUAD BUNDLE ACSR Moose Conductor over all dia31.77 MM)
24.	Size of Earth Wire/OPGW	Earth Wire Dia10.98mm & OPGW Dia 11.01 mm
25,	FOUNDATION TYPE	SFR
26.	PLAN PAPER DIAGRAM	ENCLOSED
27.	EARTHING	PIPE TYPE EARTHING



Asst. Executive Engineer 400 KV/ Const./SD-1 /Rural TSTRAMSCO, Erragadda, MYD-45

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71 Sag Tension For Hot Curve (75' Temp No Wind) 3023 2 Kg 81 Sag Tension For Cold Curve (S' Temp No Wind) 3875 8 Kg Notes 1) ALL DIMENSIONS ARE IN M 2) ELECTRICAL CLEARANCE FOR RAILWAY CROSSING DETAILS. i) PRIOR APPROVAL OF RAILWAY AUTHORITY IS TO BE OBTAINED. ii) MINIMUM CLEARANCE BETWEEN LOWEST POINT OF ADAVE LINE CONDUCTOR AN RAIL LEARANCE BETWEEN LOWEST POINT OF ADAVE AT CROSSING FROM RAILWAY CROSSING BETAILS. ii) THE CROSSING SHALL NO DE OBTAINED IN EACH CASE. iii) THE CROSSING SHALL NO RMAILLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING BE DONE WITH 'DO' TYPE TOWER. 3) MINIMUM CLEARANCE FOR POWER LINE CROSSING IN FROM RAILWAY CROSSING BE DONE WITH 'DO' TYPE TOWER. 3) MINIMUM CLEARANCE FOR POWER LINE CROSSING 'I FOR JOW. SHOWN 'I FOR JOW. 'SHOWM ii) FOR 20KY. SHOWM ii) FOR 20KY. SHOWM ii) THE COMMUNICATION LINE CROSSING.' THE ANGLE OF CROSSING SHALL BE AS NEAR TO 90' AS POSSIBLE. HOWEVER DEVALTION LINE TO FOR AS PERMITTED
SI SAS Tension For Cold Curve (5" Temp: No Wind) SI SAS Tension For Cold Curve (5" Temp: No Wind) Notes I) ALL DIMENSIONS ARE IN M SI ELECTRICAL CLEARANCE FOR RAIL WAY CROSSING DETAILS - I) PRIOR APPROVAL OF RAILWAY AUTHORITY IS TO BE OBTAINED. II) MINIMUM CLEARANCE BETWEEN LOWEST POINT OF 400kV LINE CONDUCTOR AN RAILWAY AUTHORITY HAS TO BE OBTAINED IN EACH CASE. II) THE CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT NORT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORMALLY BE AT NORT ANGLE TO THE RAILWAY TRACK V CROSSING SHALL NORT TO THE CROSSING I) FOR TAXY SHOWM II) FOR TAXY SHOWM II) THE CROSSING SHALL BE AS NEAR TO 90° AS POSSIBLE. HOWEVER DEVARTION TO THE EXTENT OF BOT MAY BE PERMITTED
Notes 1) ALL DIMENSIONS ARE IN M. 2) ELECTRICAL CLEARANCE FOR RAILWAY CROSSING DETAILS - PRIOR APPROVAL OF RAILWAY AUTHORITY IS TO BE OBTAINED. MINIMUM CLEARANCE EOR RAVEN UNGEST POINT OF 400X UINE CONDUCTOR AN RAILWAY AUTHORITY HAS TO BE OBTAINED IN EACH CASE. MINIMUM CLEARANCE HOR POWER LINE DI REACH CASE. THE CROSSING SHALL NORMALLY DE AI TRIGHT ANGLE TO THE RAILWAY TRACK v) CROSSING SHOULD BE DONE WITH 'DD' TYPE TOWER. MINIMUM CLEARANCE FOR POWER LINE CROSSING (FOR 400K) - 5490MM (FOR 400K) - 5490MM (FOR 200K) - 5490MM (FOR 200K) - 5400K) - 5400K) - 5400K) (FOR 200K) - 5400K) - 5400K) - 5400K) - 5400K) - 5400K) - 5400K) (FOR 200K) - 5400K) -
1) ALL DIMENSIONS ARE IN M 2) ELECTRICAL CLEARANCE FOR RAILWAY CROSSING DETAILS - 1) PRIOR APPROVAL OF RAILWAY AUTHORITY IS TO BE OBTAINED 1) MINIMUM CLEARANCE BETWEEN LOWEST FOINT OF 400X LINE CONDUCTOR AN RAIL LEVEL SHALL BE 17,90M, HOWEVER APPROVAL OF RAILWAY CROSSING FROM RAILWAY AUTHORITY HAS TO BE OBTAINED IN EACH CASE 10) THE CROSSING SHALL NORMALLY BE AT RIGHT ANGLE TO THE RAILWAY TRACK Y) CROSSING SHOULD BE DONE WITH 'DD' TYPE TOWER 3) MINIMUM CLEARANCE FOR POWER LINE CROSSING 1) FOR 400X'. S490MM 1) FOR 220KY. 5490MM 4) TELECOMMUNICATION LINE CROSSING- THL ANGLE OF CROSSING SHALL BE AN EAR TO 90' AS POSSIBLE. HOWEVER DEVALTION TO THE EXTENT OF 60' MAY BE PERMITTED
 2) ELECTRICAL CLEARANCE FOR RAILWAY CROSSING DETAILS. i) PRIOR APPROVAL DI: RAILWAY AUTHORTY IS TO BE OTAINED. ii) MINIMUM CLEARANCE BETWEEN LOWEST POINT OF 400kV LINE CONDUCTOR AN RAIL LEVEL SHALL BE 17.90M. HOWEVER APPROVAL OF RAILWAY CROSSING FROM RAIL LEVEL SHALL BE 17.90M. HOWEVER APPROVAL OF RAILWAY CROSSING FROM RAILWAY AUTHORTY HAS TO BE OBTAINED IN EACH CASE. ii) THE CROSSING SHAN SHALL BE LIMITED TO 300 M. ii) THE CROSSING SHALL NORMALLY BE AT INGHT ANGLE TO THE RAILWAY TRACK V) CROSSING SHOULD BE DONE WITH 'DD' TYPE TOWER. 3) MINIMUM CLEARANCE FOR POWER LINE CROSSING I) FOR 200KV: 5490MM ii) FOR 200KV: 5490MM ii) FOR 200KV: 5490MM ii) TELECOMMUNICATION LINE CROSCING: THE ANGLE OF CROSSING SHALL BE AS NEAR TO 90" AS POSSIBLE. HOWEVER DEVALTION TO THE EXTENT OF 60" MAY BE PERMITED
UNDER EXCEPTIONALLY DIFFICULT SITUATIONS. 5) THE MUMBER OF CONSECUTIVE STRANS BETWEEN THE SECTION POINTS SHALL NOT EXCEED 15 OR 5KM IN PLAIN TERRAIN, AND 10 SPANS OR 3KM IN HILLY TERRAIN. A SECTION POINT SHALL COMPRISE OF TRASION POINT WITH DD/B TYPE OR DC/C TYPE OR DDO TYPE TOWERS AS APPLICABLE 6) MINIMUM GROUND OLEARANCE REQUIRED: & 84M * SAG ERROR 0.15M=8 99M 7) FOR ALL NATIONAL HIGHWAY CROSSING, TENSION TOWER IS TO BE USED AND THE CROSSING SPAN IS NOT TO EXCEED 250METERS. 8) WAY LEAVE OLEARANCE: 26M ETHER SIDE FROM THE C.L. OF THE TOWER 9) MAXIMUM DEVIATION OF LIME FOR DEAD END TOWER SHALL BE 15° BOTH SIDE 14 LINE SIDE AND SUBSTATION SIDE (SLACK SPAN SIDE) 10) HORIZONTAL SCALE 1CM = 20M 11) VERTICAL SCALE 1CM = 20M 12) UTM (ZONE - 44D) COORDINATE SYSTEM HAS BEEN ADOPTED FOR DETAILED SURVI
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