



**भारतीय राष्ट्रीय राजमार्ग प्राधिकरण**  
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)  
**NATIONAL HIGHWAYS AUTHORITY OF INDIA**  
(Ministry of Road Transport & Highways, Government of India)



**क्षेत्रीय कार्यालय - हैदराबाद**

प्रथम तल, नया भवन, भारतीय पशासनिक स्टाफ कॉलेज, रोड नंबर 3, बंजारा हिल्स, हैदराबाद - 500034 तेलंगाना

**REGIONAL OFFICE - HYDERABAD**

First Floor, New Building, Administrative Staff College of India, Banjara Hills, Hyderabad - 500034, Telangana.

टेली / Tele: 040-29562147 / 48 ई-मेल / Email: rohyderabad@nhai.org / nhairohyd@gmail.com

NHAI/RO-HYD/25011/1/56/2022/Utility/

2748

Dt. 11.01.2023

**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".

**Comment Inviting Authority**

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

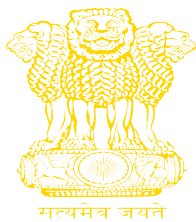
## FORM-A

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

Sl. 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)	
	c) Details of Application	
4	The claims and objections (on grounds of public inconvenience, safety and general public interest)	



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

22.12.2022

To

**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:**
- EE -I lr. no. EE-II/400kV/Const./Rural/Erg/Hyd/F.PRLIS/D.No.115/22 dated: 05.05.2022
  - PIU-Hyd lr. No. NHAI/PIU-HYD/NH-44/AP-3/2022/874 dated: 30.05.2022
  - I.E lr. No. AA/TL/AP-03/NH-33/NHAI/2349/22-23/1339 dated: 27.07.2022
  - T/o lr. No. NHAI/PIU-HYD/NH-44/AP-3/TSTRANSCO/2022/1521 dated: 17.10.2022
  - RO-Hyd lr. No. NHAI/RO-HYD/25011/1/56/2022/Utility/1979 dated: 25.10.2022
  - PIU-Hyd lr. No. NHAI/PIU-HYD/NH-44/TSTRANSCO/2022/1585 dated: 02.11.2022
  - 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 <a href="https://morthnoc.nic.in">https://morthnoc.nic.in</a> 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.No.17/22, Dt.7-12-2022.

Sir,

**Sub:** TSTRANSCO 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:-** NHAI/PUI-HYD/NH-44/TSTRANSCO/20220/1585 dated 02-11-2022.

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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 1<sup>st</sup> 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 annexure-I.

**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, PD is requested to direct the applicant to submit the proposal in online portal at <http://morthnoc.nic.in> immediately.

Reply: 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 Engineer-II,  
400kV/ Const/Rural,  
Erragadda/ Hyderabad.

Copy Submitted To:

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

### 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).

**Name of Transmission Line: 400kv QMDC Maheshwaram - Uddandapur Transmission 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° 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 the structures to be corner structures, state angle of such deviation the deviation of the span on either side of crossing shall be illustrated in the sketch mentioned in the clause 2 above.	Location No. AP54/0 DD+06 (4° 07' 31" RT) 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 should be separately described and their disposition indicated by means of sketch.	QUAD BUNDLE ACSR Moose Conductor dia 31.77 mm, Unit Weight 2.004 Kg/m.  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 1 No. 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 on insulator and (2) guard wire on bracket above ground level.	Location No. AP54/0 DD+06 = 29.526 M. Location No. AP55/0 DD+03 = 26.526 M
11.	Height of road FL above ground level measured at the foot of the structure.	Location No. AP54 DD+06 = 1.97 M. 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 clearance).
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 nearest ROAD.	Location No. AP54/0 DD+06 = 126.59 M. 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 in 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.

  
 Executive Engineer-II  
 400KV/Const/Rural  
 TSTRANSCO, Erragadda Hvd-45

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







## CHECK-LIST

FOR 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 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 EARTHED 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.
11.	Succeeding span	370 M.
12.	Height of structure above ground and below ground separately and details of foundation	A) Location AP54/0, DD+06,1.5m RC. height above GL 57.010 m, depth below GL 3.550m. 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 Moose CONDUCTOR SIZE 54/3.18mm AL + 7 3.18mm 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 dia.-31.77 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

  
Executive Engineer-II  
400KV/Const/Rural  
ISTRANSCO, Erragadda, HYD-45

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









My Applications				
Application Category/items				
Sno	Application Ref. No	State/District/Highway	Stage	Approvals Accorded
1	20231124/14/17/25/1712 [New]	TELANGANA RANGAREDDI NH765 (NH765)	Application Submitted on: 26/11/2022	Add New
2	20231130/14/17/25/1736 [New]	TELANGANA MAHABUBNAGAR NH11 (NH11)	Application Submitted on: 23/11/2022	