



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport and Highways, Govt. of India)

क्षेत्रीय कार्यालय/ REGIONAL OFFICE

ई-6/47, स्मृति परिसर, साईबोर्ड के पास, अरेरा कॉलोनी, भोपाल (म.प्र.)-462016

E-6/47, Smriti Parisar, Near Sai Board, Arera Colony, Bhopal (M.P.)-462016

दूरभाष / Phone : 0755-2426638, फैक्स/Fax : 0755-2426698, ई-मेल/E-mail ID - robhopal@nhai.org

NHAI/RO-MP/IND/Pachora-Bhopal/238.039/RTL/2023/49179

Date: 17.05.2023

Invitation of Public Comments

Sub: Four laning of Biaora to Dewas Section from km 426+100 to km 566+450 of NH-3 in the State of Madhya Pradesh under NHDP Phase-IV in BOT (Toll) basis on DBFOT pattern – **Proposal for approval of NH Crossing (NH-52) with 400KV Pachora-Bhopal D/C (Twins HTLS) T/L for construction of 400KV D/C Pachora-Bhopal Transmission Line associated with Transmission System for Evacuation of Power from RE Projects in Rajgarh (2500MW) SEZ in Madhya Pradesh – Reg.**

Ref: PIU-Indore letter no. NHAI/PIU-Indore/B-D/Utility/Rajgarh/2023/667 dated 11.05.2023.

The Project Director, PIU-Indore vide their letter dated 11.05.2023 has recommended the proposal for approval of NH Crossing (NH-52) with 400KV Pachora-Bhopal D/C (Twins HTLS) T/L for construction of 400KV D/C Pachora-Bhopal Transmission Line associated with Transmission System for Evacuation of Power from RE Projects in Rajgarh (2500MW) SEZ in Madhya Pradesh.

2. As per Ministry vide OM No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the Highways Administrator will make available the proposal seeking permission for utility laying for public comments for 30 days on ground of public interest.

3. In view of the above the comments of public are invited on captioned proposal and the same should reach to below mentioned address till 16.06.2023 beyond which no comments will be considered.

The Highway Administrator
O/o Regional Officer,
National Highways Authority of India
E-6/47, Smriti Parisar,
Near Sai Board, Arera Colony,
Bhopal (MP)-462016
E-mail ID:robhopal@nhai.org

This issues with the approval of Regional Officer cum Highway Administration.


(Anand Prasad)
Manager (T)

Copy to:

- Web Admin, NHAI-HQ-with request for uploading on the NHAI website.
- The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.
- The Project Director, NHAI, PIU-Indore (M.P.) for information.
- The Authorized Representative, Rajgarh Transmission Limited, 2nd Floor, Novus Tower, Plot No. 18, Sector-18, Gurugram (Haryana)-122015.

CHECK-LIST

Guidelines for project Directors for processing the proposal of laying 400kV Overhead Electrical Power Transmission Line in the land crossing National - Highway vested with NHAI

Ministry circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016

Check list for getting approval for laying of Overhead Electric Power Transmission Line of NH land			
S.No.	Item	Information/status	Remarks
1	General information		
1.1	Name and Address of the applicant	Name: Rajkumar Aharwal, General Manager Rajgarh Transmission Ltd. Address: House no.-Tulip 584, New Minal Residency, J.K.Road, Bhopal MP- 462041.	
1.2	National Highway Number	NH-52	
1.3	State	Madhya Pradesh	
1.4	Location	Crossing National Highway NH-52 at km 238+0.039, Near Village Chatrukheri, Tehsil - Sarangpur, District - Rajgarh, Madhya Pradesh	
1.5	(Chainage in km.)	Across at km 238+0.039	01 no. crossing
1.6	Length in Meter	NA, as the proposal is for crossing of NH	
1.7	Width pf available ROW		
	(a) Left side from the center line towards increasing chainage/km direction	27.67 30m	
	(b) Right side from the center line towards increasing chainage/km direction	28.67 30m	
1.8	Proposal to lay overhead Electric Power Transmission line		
	(a) Left side from the center line towards increasing chainage/km direction	NA, as the proposal is for crossing of NH	
	(b) Right side from the center line towards increasing chainage/km direction	NA, as the proposal is for crossing of NH	
1.9	Proposal to acquire land		
	(a) Left side from the center line	NA	
	(b) Right side from the center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired if not where to lay the cable	NA, as the proposal is for crossing of NH	
1.11	Details of already laid services, if any, along the proposal route	Nil	
1.12	Number of lanes (2/4/6/8 lanes) existing	4 Lane	
1.13	Proposed number of lane (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	No	
	If yes then which side	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.15	Proposed service road	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay Overhead Power Transmission line is after the service road in between the service road between the service road and main carriage way	No, as the proposal is across the NH	
1.17	The permission for laying Overhead Power Transmission line shall be considered for approval/rejection based in the ministry circulars mentioned as above	Consider for the approval	
1.18	If crossing of the road involved	Yes	

[Signature]
Dy. Manager (Tech)
Rajgarh Transmission Ltd.

[Signature]
Rajgarh Transmission Ltd.
Bhopal

[Signature]
Rajgarh Transmission Ltd.
Bhopal

	If yes, it shall be either encaased in pipes or through structure or conduits specially for the purpose at the expenses of the agency owing the line	Yes, Overhead Electrical line by arranging towers.	
	(a) Existing drainage structures shall not be allowed to entry the lines	NA	
	(b) It is on the line normal to NH	Yes	
	(c) Crossing shall not be to near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures	Yes(.....)	
	(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 with drawal of the carrier pipe/cable.	NA	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path		
	(f) The casing / conduit pipe should as minimum extended from drain to drain in cuts and toe of slope toe of slopes in the fills.	NA	
	(g) The top of the casing / conduit pipe should be atleast 1.2 meter below the surface of the road subject to being atleast 0.3 meter below the drain inverts.	NA	
	(h) Crossing shall be by boring method HDD, specially where the existing road pavement is of cement concrete or dense bituminous concrete type	NA as crossing is overhead. Methodology is enclosed,	
	(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 waterway along it.	NA	
2	Documents / Drawings enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2m deep x 0.3m wide) i) Should not be greater than 60cm wider than the outer diameter of the pipe. (ii) Located as closed to the extreme edge of the right of way as possible but not less than 15m 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 atleast 0.6meter below the ground level so as not to obstruct drainage of the road land.	NA, as the crossing is overhead and across NH	
2.2	Cross section showing the size of pit and location of cable for HOD method	NA, as crossing is overhead	
2.3	Strip plan/route plan showing Overhead Power Transmission Line Chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of Overhead Power Transmission Line.	Yes enclosed	

[Handwritten signature]
 For the purpose of the project
 (Name), P.O. No. 1000/1000

[Handwritten signature]
 INFRA PROJECT
 SHAMUR

[Handwritten signature]
 HALDIGHATI TRANSMISSION LINE

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, Methodology of refilling of trench.	NA	
	(a) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(b) For tilling of the trench, Bedding shall be to a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	NA	
	(c) The Backfill shall be completed in two stages (i) side- fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	
	(d) The sidefill shall consist of granular material laid in 15cm 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 been removed. Consolidation by saturation or ponding will not be permitted.	NA	
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	NA	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	NA	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	NA	
2.4.2	Horizontal Direction Drilling (HOD) method	NA	
2.4.3	Laying of Overhead electrical line through CD works and method of laying	NA	
3	Draft License Agreement signed by two witnesses	Yes	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs. 50/ per running meter (parallel to NH) and Rs. 1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring making good the excavated trench for laying the cables / ducts by proper filling and compaction, clearing debris / loose earth produced due to execution of trenching atleast 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris / loose earth.	Will be submitted after according approval	
4.1	Performance Bank Guarantee as per above is to be obtained.	Will be submitted as per the demand of NHAI	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Yes	
5	Affidavit /Undertaking from the applicant for		

[Signature]
 1. 1/1/2019
 2. 1/1/2019

[Signature]
 RAJGARH TRANSMISSION
 SHAJAPUR
 L.M.

[Signature]
 RAJGARH TRANSMISSION
 SHAJAPUR
 L.M.

5.1	Not to damage to other utility , if damaged then to pay the losses either to NHAI or to the concerned agency	Yes, Enclosed	
5.2	Renewal of Bank Guarantee	Yes, Enclosed	
5.3	Conforming all standard condition of NHAI guidelines	Yes, Enclosed	
5.4	Shifting of Overhead Power Transmission as and when required by NHAI at their own cost.	Yes, Enclosed	
5.5	Shifting due to 6 laning /widening of NH	Yes, Enclosed	
5.6	Indemnity against all damages and claims clause (XXIV)	Yes, Enclosed	
5.7	Traffic movement during laying of Overhead Power Transmission line to be managed by the applicant	Yes, Enclosed	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant	Yes, Enclosed	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation shifting or repairs, alteration to the overhead power Transmission line located in the National Highway Right of -ways	Yes, Enclosed	
5.10	Expenditure, if any, incurred by NHAI for repairing any damage caused to the national highway by the laying, maintenance or shifting of the overhead power Transmission line will be borne by the agency owning the line.	Yes, Enclosed	
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes, Enclosed	
5.12	Certificate from the applicant in the following format	Yes, Enclosed	
	(i) Laying of Overhead Power Transmission Line will not have any deleterious effects on any of the bridge components and road way safety for traffic. (ii) For 6 laning "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as well be stipulated by NHAI for future four/six laning of any other development."		
6	Who will sign the agreement on behalf of Overhead Power Transmission Line agency.	Name: Rajkumar Aharwal, General Manager Rajgarh Transmission Ltd. Address: House no.-Tulip 584, New Minal Residency, J.K.Road, Bhopal MP- 462041.	
7	Certificate from the Project Director.		
7.1	Certificate for conforming of all standard condition issued vide Ministry circular no. NH-111/P/66/76, Dt 19.11. 1976, Ministry Circular no. NH-111/P/20/77 Dt 08-04-1982, Ministry circular no. RW/NH-111/p/66/76 Dt 11.5.1982 and Ministry circular no. RW/NH-11037/l/86/DOL, dated 19-01-1995.	Yes, Enclosed	
7.2	Certificate from the PD in the following Format		


 Dr. M. Dey (P.D.)
 NHAI, P.O. Indore (MP)


 Rajkumar Aharwal, General Manager
 Rajgarh Transmission Ltd.



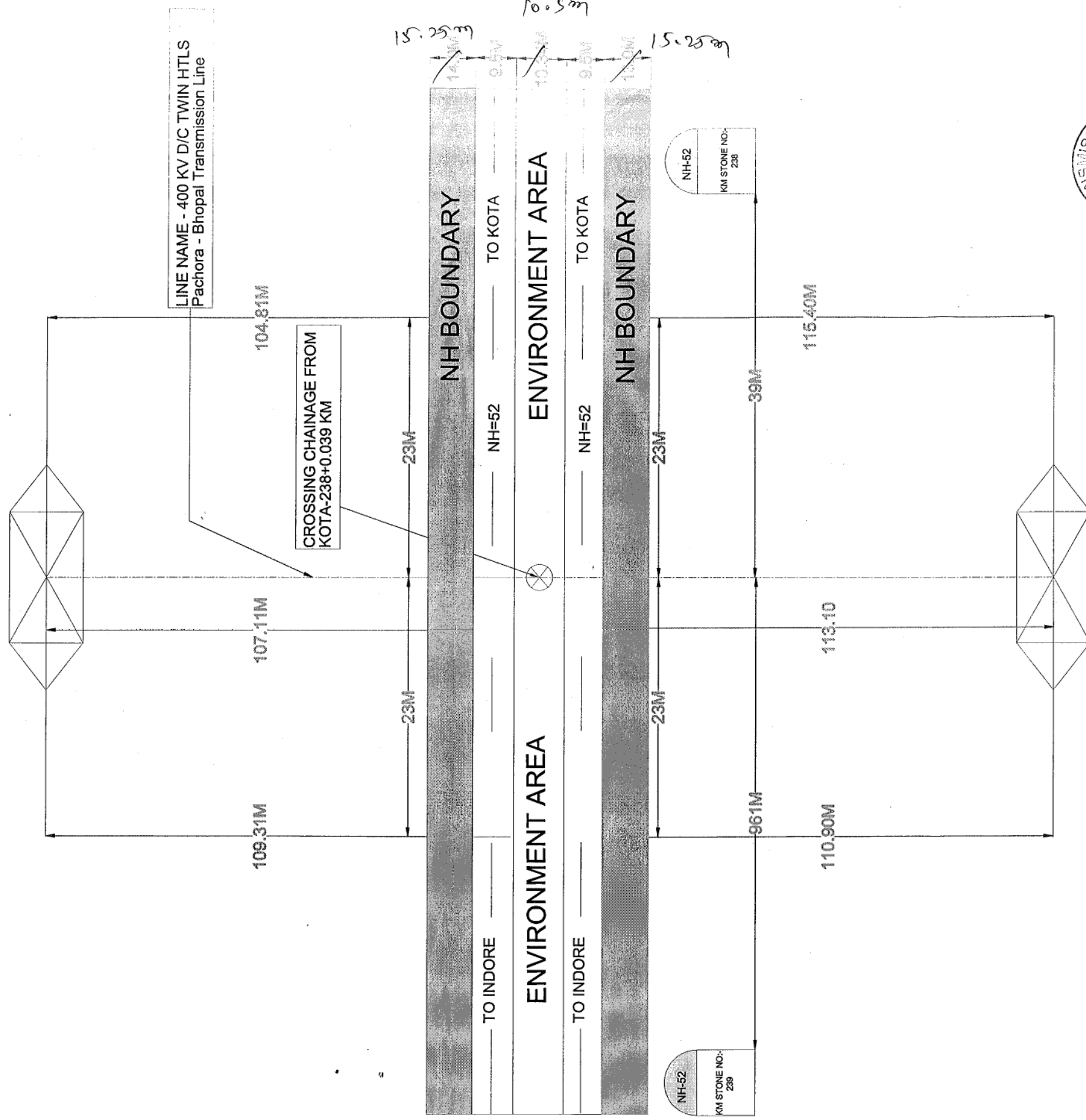
	(i) "It is certified that any other location of the Overhead Power Transmission line would be extremely difficult and unreasonable costly and the installation of Overhead Power Transmission Line within ROW will not adversely affect the design, stability and traffic safety of the Highway nor the likely future improvement such as widening of the carriage way, easing of curve etc."	Yes, Enclosed	
	(ii) For 6 laning (a) Where feasibility is available "I do certify that there will be no hinderance to proposed six laning based on the feasibility report considering proposed structures at said location" (b) In Case feasibility report is not available "I do certify that sufficient ROW is available at side for accommodating proposed six laning".	NA	
8	If NH Section proposed to be taken up by NHAI on BOT ba is a clause is to be inserted in the agreement ."The pennitted Highway on which licensee has been granted the right to lay overhead power transmission line has also been granted as a right of way to the concessionaire under the concession agreement for upgradation of(Kolkata to Chennai section from KM 799.998 to KM 1022.494 of NH NO. 16 on Build, Operate and Transfer Basis) and therefore, The licen see honor the same."	Yes inserted	
9	Who will supervise the work of laying Overhead Power Transmission Line.	Name: Rajkumar Aharwal, General Manager Rajgarh Transmission Ltd. Address: House no.-Tulip 584, New Minal Residency, J.K.Road, Bhopal MP- 462041.	
10	Who will ensure that the defects in road portion after laying of Overhead Power Transmission Line are corrected and if not correected then what action will be taken.	Name: Rajkumar Aharwal, General Manager Rajgarh Transmission Ltd. Address: House no.-Tulip 584, New Minal Residency, J.K.Road, Bhopal MP- 462041.	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	Name: Rajkumar Aharwal, General Manager Rajgarh Transmission Ltd. Address: House no.-Tulip 584, New Minal Residency, J.K.Road, Bhopal MP- 462041.	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed).	Yes, Enclosed	
13	If any previous approval is accorded for laying of Overhead Power Transmission then photocopy of register of records of pemsissions accorded as maintained by PD may be enclosed.	Yes, Enclosed	


 Dy. Manager (Tech)
 NHAI, PWD-Indore (MID)



CROSSING DETAILS OF 400 KV D/C TWIN HTSL PACHORA-BHOPAL TRANSMISSION LINE CROSSING OVERHEAD NATIONAL HIGHWAY-52 (KOTA - INDORE)

AP-50(DD+0), HEIGHT OF TOWER - 48.07M
34°30'31" LT, NEAREST VILLAGE - CHATRUKHERI
E=657969.79, N=2612691.04



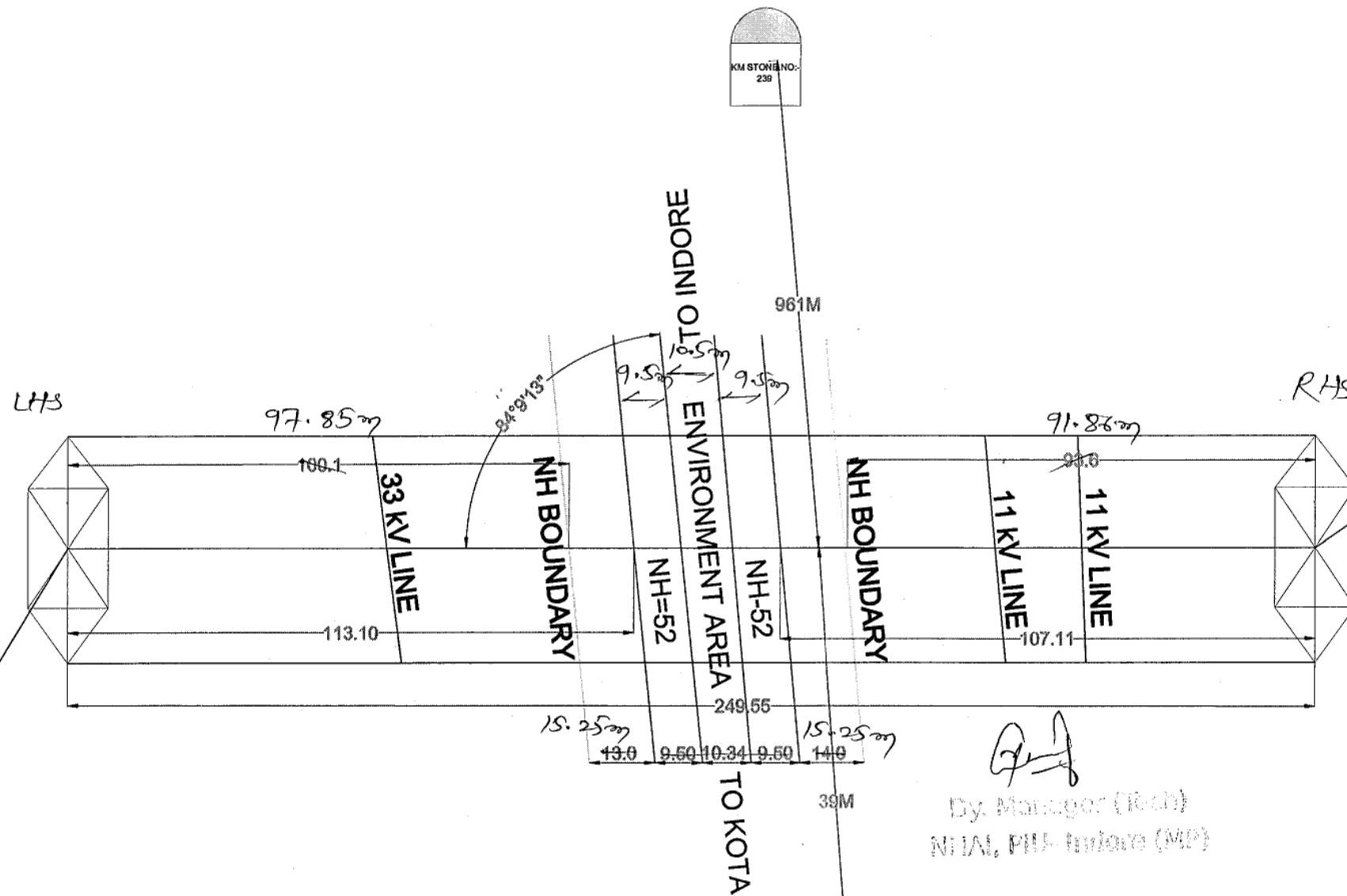
AP-49(DD+0), HEIGHT OF TOWER - 48.07M
58°54'43" RT, NEAREST VILLAGE - CHATRUKHERI
E=658069.40, N=2612462.23



NOT IN SCALE - AS

SLD OF 400 KV D/C TWIN HTLS PACHORA-BHOPAL TRANSMISSION LINE CROSSING OVERHEAD NATIONAL HIGHWAY-52 (KOTA - INDORE)

AP-49
58°54'43" RT
DD+0
Tw Ht: 48.07m.
E=658069.40
N=2612462.23



AP-50
34°30'31" LT
DD+0
Tw Ht: 48.07m.
E=657969.79
N=2612691.04

Dy. Manager (Tech)
NHAI, PUA-Indore (MP)



CHECKED BY	RECOMMENDED BY	SUBMIT BY
		

400kV D/C Pachora - Bhopal TL crossing over NH-52

Write a description for your map.

Legend

↓ NH-52

50/0

49/0

Google Earth

Image © 2022 Maxar Technologies



100 m