



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)



प.का.ई. अलीगढ़, ग्राम-भीकमपुर, एन.एच-34 के कि०मी० 132.400 (आर०एच०एस०)
अलीगढ़ बाईपास, अलीगढ़-202001 (उ०प्र०)

PIU Aligarh, Village-Bhikampur, At KM 132.400 (RHS) on NH-34,
Aligarh Bypass, Aligarh - 202001 (U.P.)

ई-मेल/Email : aligarh@nhai.org | nhaiuibs001@gmail.com

NHAI/PIU-ALG/33016/GAP/2024/D- 23374

03.01.2025

Invitation of Public Comments

Sub: Proposal for permission of O/H Road Crossing of NH-334D (Aligarh-Palwal Section) by 765KV Neemrana Bareilly Transmission line for Location AP52 to AP53 between Design Ch. 25.700 to Ch. 25.800 in District- Aligarh in the State of Uttar Pradesh.

M/s Powergrid Neemrana Bareilly Transmission Limited, Aligarh submitted the proposal for permission of O/H road crossing of NH-334D (Aligarh - Palwal Section) by 765KV Neemrana Bareilly Transmission line between Design Ch. 25.700 to Ch. 25.800 District- Aligarh in the state of Uttar Pradesh.

2. From the submitted proposal, it is seen that the proposed overhead crossing length is 60m. Perpendicular distance from centre of tower to road boundary is 114.50m (LHS) and 131.50m (RHS).

3. As per the guidelines, issued by the Ministry vide OM No.RW/NH-33044/29/ 2015/ S&R(R) dated 22.11.2016, the application 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).

4. In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

**The Project Director,
National Highways Authority of India**

Project Implementation Unit- Aligarh
Village- Bhikampur, At Km. 132.400 (RHS) on NH-34,
Aligarh Bypass, Aligarh -202001 (U.P.)

Encl: As above.


(Indresh Kumar)
Project Director

Copy to:

4. Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website. (Email: mansoor@nic.in)
5. Regional Officer (W-UP), NHAI-Lucknow for kind information.

CHECK LIST

Project Director for processing the Proposal of over head electrical line (765 KV D/C NEEMRANA-II TO BAREILLY T/L crossing national highways vested with NHAI

Circular / Codes:-

Ministry Circular No NH-III/p/20/77 dated 08-04-1982

Indian Electricity Act 1910 Indian Electricity Rules 1956 IRC: 32-1969

IS:5613-1976 Part I to IV

For getting approval for laying of overhead electrical line along the Proposed National Highways NH-334D, vested with NHAI

Sl. no	item	information/status	Remark
1	General Information	765 KV D/C NEEMRANA-II TO BAREILLY T/L	
1.1	Name and address of the applicant	POWERGRID NEEMRANA BAREILLY TRANSMISSION LIMITED, PowerGrid Corporation of India Ltd, 400/220/132 S/S Address: 400 KV, Bareilly Sub. Station, 21km. Mile Stone, Nainital Road, Post Attamanda, Bareilly-243202 (U.P)	
1.2	National Highway No	Proposed NH -334D	
1.3	State	UTTAR PRADESH	
1.4	Location	Ruppur, Khair, (Aligarh)	
1.5	Type of electric including carrying voltage details and purpose	765 KV D/C NEEMRANA-II TO BAREILLY T/L For Evacuation of power from Rajasthan REZ PH-IV (PART-I) (Bikner Complex:7.7 GW)	
1.6	Chain -age in kilometers	L 25 + 773	
1.7	Length in Metre	246 Mtr	
1.8	Width of available ROW	60	
	(a). Left side from Center line towards Increasing chainage / KM Direction	30	
	(b) Right side from Center line towards increasing chainage / KM Direction	30	
1.9	Proposal to lay Overhead		
	(a). Left side from Center line towards Increasing chainage / KM Direction	Span of crossing is 246 M.	
	(b) Right side from Center line towards increasing chainage / KM Direction	(a)AP 52/0 is at a distance of 114.5Mtr from centre of Road.	
	(c)Erection of Electrical line along the Proposed NH- 334D	(b)AP 53/0 is at a distance of 131.5 Mtr from centre of Road.	
1.10	Proposal to acquire land	N/A	
	(a)Left side from Center line	N/A	
	(b)Right side from Center line	N/A	
1.11	Whether the proposal is a- in the same side where land is not to be acquired b- Crossing the National Highway If not then where to lay the overhead electrical line	Yes, Crossing the National Highway. Towers shall be constructed outside NHAI Land Boundary.	
1.12	Details of Already laid services (overhead telecommunication line, overhead electric line etc), If any along the proposed route / proposed crossing	N/A	
1.13	NO of lanes (2/4/6/8 lanes) Proposed	Proposed	
1.14	Proposed number of lanes (2 lanes with paved shoulder 4/6/8 lanes)	04 lane	
1.15	Service Road existing or not	N/A	



Shahid

मो० शाहिद अंसारी/Md. Shahid Ansari
अभियन्ता/Engineer
पाव गिड, अलीगढ़/POWERGRID, Aligarh

	If yes then which side		
	a) Left side from center line		
	b) Right side from center line	N/A	
1.16	Proposed Service Road	N/A	
	a) Left side from center line	N/A	
	b) Right side from center line		
1.17	Whether proposal to lay overhead electric line is after the service road or between the service road and main carriage way, or crossing for approval / rejection based on the Ministry circulars and relevant codes mentioned as above.	Overhead Electric Transmission Line crossing the Proposed NH-334D	
1.19	<p>I- If crossings of the roads Involved</p> <p>(a) Crossing angle for NH and provide length along the Highway</p> <p>(b) Structure (Tower, pole and for HT Line only tension towers) for crossings shall not be too near the existing structures on the National Highway. The minimum distance being 15 meter.</p> <p>(i)- Type of Existing / proposed structure for National Highways</p> <p>(ii)- What is the distance of tower, pole and tension tower lying from the existing / proposed structure for National Highways.</p>	<p>yes</p> <p>(a) Angle of Crossing 77° Span 246 Meters (b) Distance more than 114.50 Mtr & 131.50 Mtr from center of Road.</p> <p>(i) HT Tower 76.22Mtr & 75.92Mtr (Structure for tower)</p> <p>(ii) 114.50Mtr & 131.50 Mtr from center of NH.</p>	
	(c)- The over head lines and their supporting poles / towers should ordinarily be placed at the extreme edge of the road land boundary. In any case, these shall be atleast 10 meter away from the edge of the existing shoulders of extreme traffic lane. Where the existing road way is narrower than the minimum according to standard or where the widening is proposed for any reason the lateral clearance shall be reckoned with respect to ultimate road way. What is the horizontal clearance from the extreme edge of the road land boundary?	<p>(i) 84.5 Mtr. (LHS) & 101.5 (RHS) from Boundary from Road Land Boundary.</p> <p>(ii) 114.50M (LHS) & 131.50 M (RHS) From Center of NH</p>	
	(d) The overhead lines and their supporting poles/ towers should originally be placed at the minimum distance of 5.0 m from the nearest line of avenue trees. What is the horizontal clearance from the nearest line of avenue trees?	Towers shall be constructed at a distance of 84.5Mtr. (LHS) & 101.5 Mtr.(RHS) towards increasing chainage direction from boundary of road.	
	(e)- in mountainous / hilly terrain the over head lines should be erected preferably on the valley side as far away as practicable. In hilly region, label of ground at a suitable distance below the outer conductor on either side from the central line is also to be noted and marked in profile so as to ensure required ground clearance underneath conductor and side clearances in swung conditions. Is the proposal in hilly area?	No. Plain terrain.	
	The horizontal clearances in respect of poles erected for the purpose of street lighting in Urban situations shall be as under:-		
	i- For roads width Minimum 300mm from the Raised kerbs 300mm from the edge of nearest kerb Preferably 600mm	N/A	
	ii- For roads with At least 1.5m from the edge of the carriage way, raised kerbs subject to minimum of 5.0 from the central line of the carriage way.	N/A	
	(g) the Pylons of HT lines along crossing the road shall be located outside the NH land	N/A	
	(h) for crossing the line of same voltage or lower voltage, suspension/ tension tower with suitable extensions shall be used.	Yes. Tension Towers with suitable extension shall be used.	



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	The vertical clearance of the overhead lines crossing the road shall be reckoned from the top of the crown of the road taking into account the anticipated final top level due to future raising of road level, strengthening of pavement etc. The actual ground clearance of High Tension line for voltage above 650 volts varies depending upon the voltage transmitted and these are stipulated in Indian standard. Codes is 56130-1976 part I to IV and Indian Electricity Rules 1956 as under.	31.0 Mtr. Ground Clearance shall be taken jointly with NHAI after completion.	
2	Affidavit / Under taking to be obtained from (to be furnished by the applicant).	yes	
2.1	Not to damage to other utility , if damaged then to pay the losses either to NHAI or to the concerned agency	yes	
2.2	Under Taking for Renewal of Bank Guarantee if required.	yes	
2.3	Confirming all standard conditions as laid down in ministry circular no- NHIII/P/20/77 dated 08-04-1982 Indian Electricity Act 1910 Indian Electricity Rules 1956 5613-1976 part I to IV of (NHAI) IRC :32-1969, IS :	yes	
2.4	Shifting of overhead Electrical line at their own cost as an when required by (NHAI)	yes	
2.5	Shifting of overhead Electrical line at their own cost as an when required due to 4/6 lanning/ widening of NH	yes	
2.6	Indemnity against all damage and claims whatsoever kind that may be to NHAI or to any third party in the row during installation, operation and maintenance	yes	
2.7	Traffic movement during laying of OFC/Cable to be managed by the applicant	yes	
2.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant.	yes	
2.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs , or alterations to the overhead electrical line located in the National Highway right of way	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the overhead line located in the National Highway right of way	
2.10	Expenditure, if any , incurred by electric department for repairing any damage caused to the National Highway by the laying , maintenance or shifting of the overhead electrical line located in the National Highway right of the way	Expenditure, if any will be incurred by electric department (PNBTL) for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the overhead electrical line located in the National Highway right of way	
2.11	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 electric department owing the utility line within a reasonable time (not exceeding 60 days) of the intimation given	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 electric department (PNBTL) within a reasonable time (not exceeding 60 days) of the intimation given.	



Shahid

2.12	Certificate from the applicant in the following format :- Laying of overhead electrical will not have any deleterious effects on any of the bridge components and roadway safety for traffic. For 4/6 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 will be stipulated by NHAI" for future 6 laning or any other development.	yes	
2.13	The transmission line installation shall be carried out by trained and experienced personnel and supervised by technically qualified persons competent to undertake such work.	The transmission line installation shall be carried out by trained and experienced personnel and supervised by technically qualified persons competent to undertake such work.	
2.14	The applicant ensures the safety of the Highway traffic against the Hazards of the high voltage lines during installation, operation and maintenance	PNBTL will ensure the safety of Highway traffic against the hazards of the high voltage lines during installation, operation and	
2.15	Undertaking the compliance with Indian electricity rules and other authorities, regulations- all over head lines shall comply with the requirement of the Indian electricity act and rules made their under and the regulations or specification as laid down by NHAI	yes	
	Other documents and drawing to be furnished by the applicant	yes	
3.1	Methodology for laying of overhead electric line.	yes	
3.2	Draft license agreement	yes	
3.3	Performance bank guarantee in favor of NHAI has to be obtain at the Rs 100/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 completions of work) as a security for insuring/ making good the area, Clearing debris / loose earth etc produced in the right of way. No payment shall be payable by the NHAI to the	Will be submitted after receiving demand note from NHAI	
3.4	Strip plan/ route plan showing overhead electrical line, chainage with of ROW, distance of proposed, structure (tower, pole and for HT Line only tension towers) from the edge of ROW, Important milestone, intersections, cross drainage works	yes	
4	Certificate from the Project Director		
4.1	Certificate for confirming that the proposal has been examined with respect to the structures and developmental work considered at this location and compliance of the standard conditions issued vide ministry circular no- NH-III/P/20/77 dated 08-04-1982 Indian Electricity Act 1910 Indian Electricity Rules 1956 IRC :32-1969, IS : 5613-1976 part I to IV of (NHAI) and NHAI's guideline.	yes	
4.2	Certificate from PD In the following format:- (i)- "It is certified that any other location of the electric line would be extremely difficult and unreasonable costly and the installation of electric line within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriage way easing of kerb, etc." (ii) for 6- laning (a) Where feasibility is available " I do certify that there will no hindrance to propose 6 laning based on the feasibility report considering proposed structures at the said location " (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating of six laning".	N/A	



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5	If NH section 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 over head electrical line has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of. : Agra -Moradabad section at milestone 88 to 89 (at Chainage 88.357 KM from Moradabad (UP) in the state of Uttar Pradesh) and therefore the licensee shall honour the same."		
6	Who will supervise the work of laying of overhead electrical line.	PNBTL will supervise the work of laying of overhead electric line.	
7	Who will the sign the agreement on behalf of overhead electrical line agency	DGM,PNBTL, Powergrid Corporation of India Ltd, 400/220/132 S/S Address: 400 KV, Bareilly Sub. Station,21km.Mile Stone,Nainital Road, Post Attamanda, Bareilly-243202 (U.P)	
8	Who will ensure that the defect in road portion after laying of over head electrical are corrected and if not corrected that what action will be taken.	"NHAI" will be the checking authority and will ensure the defects in the road portion after laying of over-head are corrected and if not corrected then PNBTL will be bound to comply the whatever action taken by NHAI	
9	Who will pay the claims for damages done / disruption in working of concessionaire, if asked by the concessionaire.	PNBTL	
10	A certificate from PD that he will enter the proposed permission in register of record of the permission in the prescribed performa (copy enclosed)	N/A	
11	If any previous approval for laying of overhead electrical line then photocopy of register of records of permission accorded as maintained by PD may be enclosed.	N/A	



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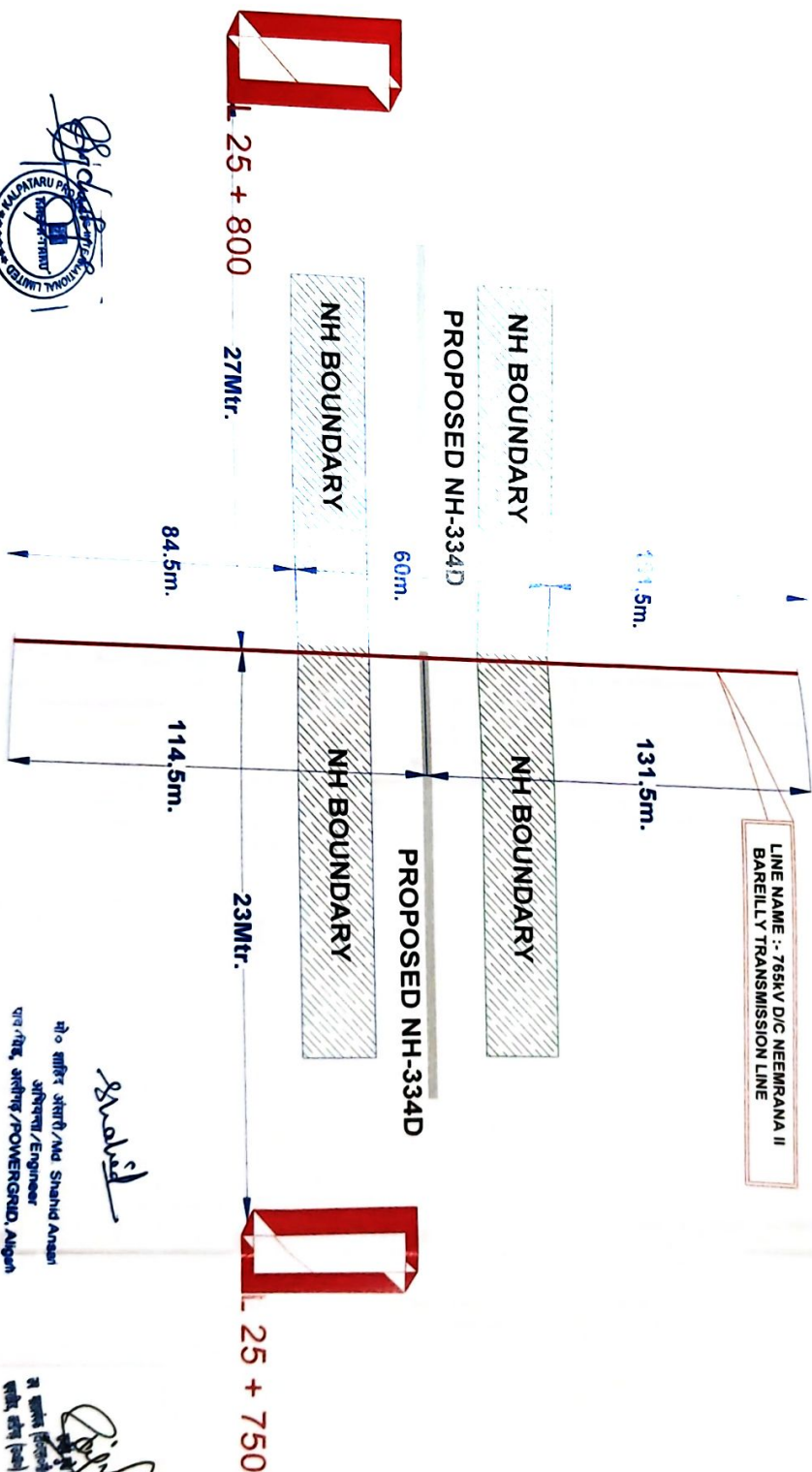
मो० शाहिद अंसारी/Md. Shahid Ansari
अभियन्ता/Engineer
पावर ग्रिड, अलीगढ़/POWERGRID, Aligarh

CROSSING DETAILS FOR MANPUR TO SAUJ Rd YAMUNA EXPRESS WAY (SECTION LENGTH - 246.00 METRE) 765KV D/C NEEMRANA II BAREILLY TRANSMISSION LINE

Crossing Chainage - L 25 + 773

AP-53 (DB2+3) HEIGHT OF TOWER 75.92 mtr.

RT 12.4948 NEARST VILL- Ruppur
X=775612.14, Y=3100444.63, elev=198.06



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अतिरिक्त/Engineer
चम/आ. अतिरिक्त/POWERGRID, Aizawl

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चम/आ. अतिरिक्त/POWERGRID, Aizawl

AP-52 (DC2+3), HEIGHT OF TOWER 76.22 mtr.

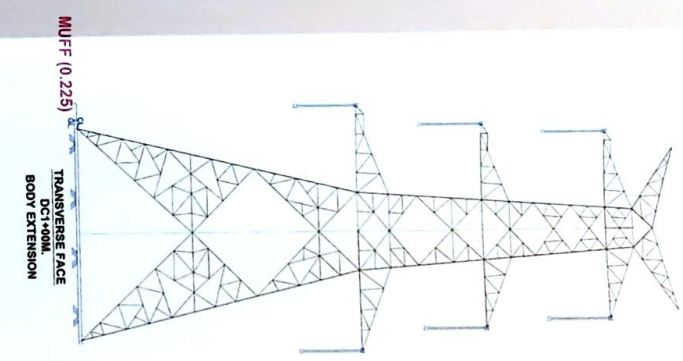
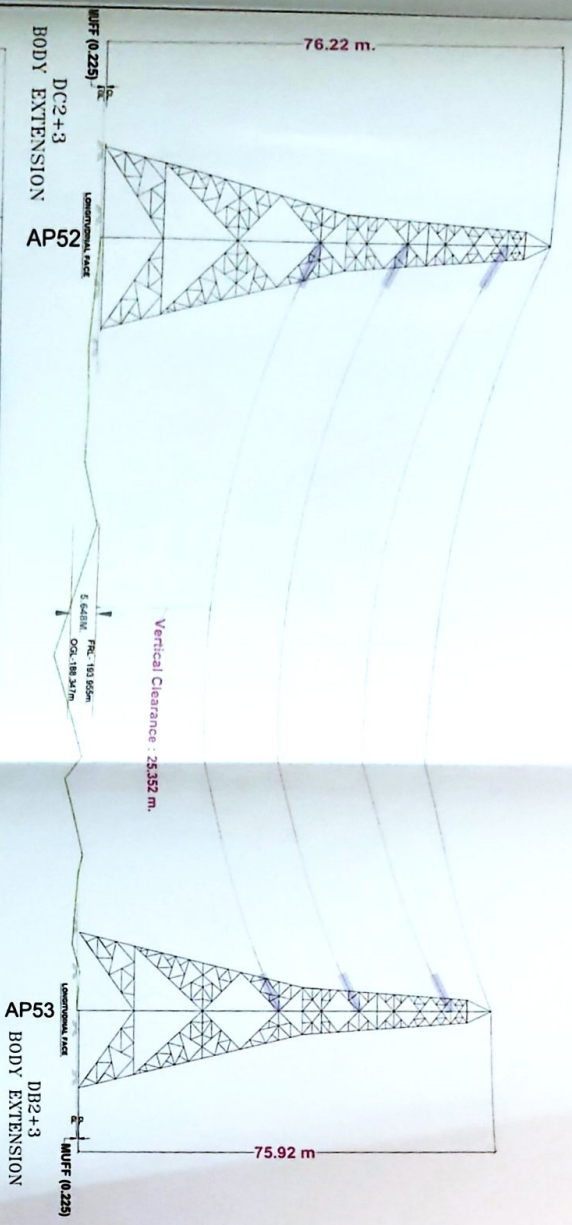
LT 24.3309 NEARST VILL- Ruppur
X=775418.27, Y=3100292.43, elev=198.10



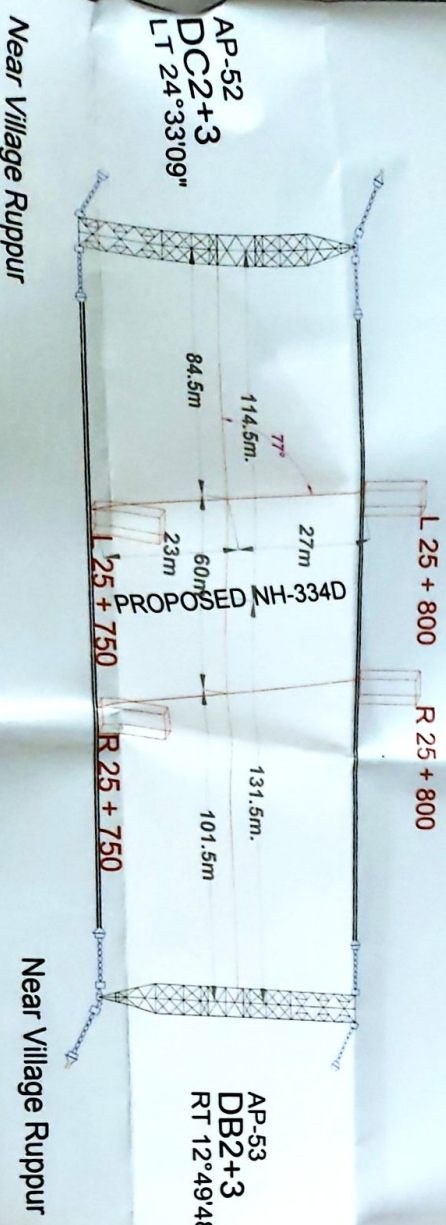
DC2+3
 0° 17' 41.82" N
 76° 22' 12.14" E
 ELEVATION: 188.347m
 LONGITUDE: 76° 22' 12.14" E
 LATITUDE: 0° 17' 41.82" N

246 M

AP53
 0° 17' 41.82" N
 76° 22' 12.14" E
 ELEVATION: 188.347m
 LONGITUDE: 76° 22' 12.14" E
 LATITUDE: 0° 17' 41.82" N



GROUND LEVEL (m)	CHAINAGE (m)
198.10	0
197.94	20
197.86	40
197.85	60
198.26	80
197.87	100
197.22	120
197.42	140
198.06	160
197.86	180
198.05	200
197.91	220
198.10	240
198.06	246



CHARACTERISTIC OF WIRES

Tower Spotting Data (±765kV D/C, Wind Zone: AL60 ZEBRA AL 613.08 M)

1) Conductor	2.772cm
2) Cable Diameter	4.54 Sq. cm.
3) Area	1.25434 Kg./m.
4) Unit Weight	480 N/m.
5) Normal Span (Fulling Span)	16.108 Mtr.
6) Maximum Sag (@ 85°V)	16.15 Mtr. (Including 0.16 Sag)
7) Ground Clearance	16.15 Mtr.
8) Sag Tension (For Hot Curve) NW	1587 Kg.
9) Sag Tension (For Cold Curve) NW	2027 Kg.

PROPOSAL FOR NATIONAL HIGHWAY CROSSING :-

CROSSING DETAILS

AP. NO.	DC2+3	AP. NO.	AP53
SCALE: N.T.S.	1:1000	SCALE: N.T.S.	1:1000
ANGLE OF DEVIATION	RT 24°33'09"	ANGLE OF DEVIATION	RT 12°49'48"
EASTING	X=775418.27	EASTING	X=775412.14
NORTHING	Y=100202.43	NORTHING	Y=100244.63
TOWER H.T. & RL.	188.347m	TOWER H.T. & RL.	188.347m

CROSSING SPAN 246 M.

VERTICAL CLEARANCE 25.352 m

NEAR VILLAGE Ruppur

CROSSING ANGLE 77°

Submitted By [Signature]

Checked by [Signature]

Recommended by [Signature]

Approved by [Signature]

Checked by [Signature]

Approved by [Signature]