



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

क्षेत्रीय कार्यालय : एफ-120, जनपथ, श्याम नगर, जयपुर-302019

Regional Office : F-120, Janpath, Shyam Nagar, Jaipur-302019

Tel. (O.)/ फोन : (ऑ.) 0141-2292056, 2292049

E-mail / ई-मेल : rojaipur@nhai.org Web. / वेब : www.nhai.gov.in

क्रमांक: NHAI/18013/1/2024-ROJ/Overhead Crossing -PGCIL/343/NH-458, Km. 12.00 to 12.200/1143

दिनांक: 28.08.2024



INVITATION OF PUBLIC COMMENTS

विषय: Special Repair Work of 2-Lane with Paved Shoulder of Nimbijodh-Degana-Merta Section of NH-458 from Km. 0.00 (Existing Chainage Km. 0.00) to Km. 139.900 (Existing Chainage Km. 144.377) (Net Length Km. 128.100) on EPC mode under NHDP Phase-IV in the State of Rajasthan : Permission for proposed Erection of Overhead Crossing of 765 KV D/C Bhadla-II PS -Sikar II 2nd Transmission Line on NH-458 (Silanwad-Nimbi-Jodha Highway) between Ch. No. 12.00 Km. 12.200 near village Ratau, Tehsil-Ladnu District Nagaur in the State of Rajasthan [Application ID 20240318/1/11/25492/7006] : In-principal Approval - reg.

- संदर्भ:**
1. M/s Powergrid Bhadla Sikar Transmission Ltd. Nagaur letter No. POWERGRID/PBSTL/39 dated 20.03.2024
 2. PIU-Ajmer letter No. NHAI/Ajmer/NH-458/NJ-MC/Access-Utility-PGCIL /16722 dated 24.04.2024.
 3. Regional Office, NHAI, Jaipur letter no. NHAI/18013/1/2024-ROJ/Overhead Crossing - PGCIL/343/NH-458, Km. 12.00 to 12.200/412 dated 29.05.2024.
 4. PIU-Ajmer letter No. NHAI/Ajmer/NH-458/NJ-MC/Access-Utility-PGCIL /17281 dated 13.08.2024.

It is to inform all concern M/s. Powergrid Bhadla Sikar Transmission Ltd., Nagaur vide cited letters under ref. above has submitted a proposal for subject work and PD, NHAI, PIU-Ajmer has submitted the above proposal vide letter under reference (2) & (4) for approval of Competent Authority, Highway Administration.

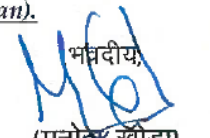
2. The proposal is for permission for proposed Erection of Overhead Crossing of 765 KV D/C Bhadla-II PS -Sikar II 2nd Transmission Line on NH-458 (Silanwad-Nimbi-Jodha Highway) between Ch. No. 12.00 Km. 12.200 near village Ratau, Tehsil-Ladnu District Nagaur in the State of Rajasthan.

3. As per para-4 of Ministry's Circular 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 ground of public inconvenience, safety and general public interest).

4. In view of the above, before approval of the competent authority, the comments/objections of affected public is hereby invited with reference to the Ministry's circular dated 22.11.2016 due to laying and crossing of electric line on the subjected stretch. The objections/comments may be addressed to the below mentioned address upto 27.09.2024 beyond due date, no comments/objections will be accepted.

The Regional Officer, Regional Office - Jaipur
National Highways Authority of India,
F-120, Janpath, Shyam Nagar, Jaipur (Raj.)-302019,
Tel : 0141-2292049, 2292054 Email : rojaipur@nhai.org

This is issued with the approval of the Regional Officer, NHAI, RO, Jaipur (Rajasthan).


(मनुज खोड़ा)
प्रबन्धक (तकनीकी)

- Copy to:**
- (i) Web Admn., NHAI, HQ, New Delhi - for uploading in NHAI's website [web-admin@nhai.org]
 - (ii) Director, NIC, New Delhi - for uploading in Ministry's website. [rahul.sh@nic.in]
 - (iii) PD, PIU-Ajmer: for information and with the request to ensure deposition of license fee and BG amount as per applicable guideline of MoRTH.
 - (iv) M/s Powergrid Bhadla Sikar Transmission Ltd. Nagaur: for information.



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)

परियोजना कार्यान्वयन इकाई, अजमेर

बी-136-सी, बी-ब्लॉक, पंचशील नगर, अजमेर-305004 (राज.)

Project Implementation Unit, Ajmer

B-136-C, B-Block, Panchsheel Nagar, Ajmer-305004 (Raj.)

Ph. No.: 0145-2680571, E-mail / ई-मेल : ajmer@nhai.org, Web./ वेब : www.nhai.gov.in



UPC: N/08039/01001/RJ

No. NHAI/Ajmer/NH-458/NJ-MC/Access-Utility-PGCIL/17281

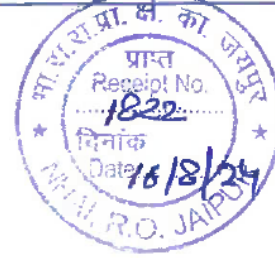
क्षेत्रीय अधिकारी

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण,

क्षेत्रीय कार्यालय,

एफ-120, जनपथ, श्याम नगर

जयपुर-302019



Date: 13.08.2024

mg800-mk
18/8

विषय: Special Repair work of Two Lane with paved shoulder of Nimbijodha-Degana-Merta section of NH-458 from km 0.000(Existing chainage km 0.000) to km 139.900(Existing chainage km 144.377) (Net Length km 128.100) on EPC mode under NHDP phase-IV in the State of Rajasthan:: **Request for approval of overhead crossing of NH-458 (Silanwad-Nimbi jodha highway) near Village-Ratau, Distt-Nagaur between Ch. 12.000 km - 12.200 km by under construction 765 kV D/C Bhadla-II-Sikar-II 2nd transmission line - reg.**

- संदर्भ:** (1) M/s Powergrid Bhadla Sikar Transmission Ltd., Nagaur letter no. POWERGRID/PBSTL/39 dated 20.03.2024 received in this office on 21.03.2024
(2) This office letter no. NHAI/Ajmer/NH-458/NJ-MC/Access-Utility-PGCIL/16722 dated 24.04.2024
(3) NHAI, RO-Jaipur letter no. NHAI/18013/1/2024-ROJ/Overhead Crossing-PGCIL/343/NH-458, Km 12.00 to 12.200/412 dated 29.05.2024
(4) This office letter no. NHAI/Ajmer/NH-458/NJ-MC/Access-Utility-PGCIL/16967 dated 12.06.2024
(5) M/s Powergrid Bhadla Sikar Transmission Ltd., Nagaur letter no. POWERGRID/PBSTL/47 dated 28.06.2024

महोदय,

Please refer this office letter dated 24.04.2024 (Annex-1) vide which the Proposal for approval of Overhead Crossing of 765 KV D/C Bhadla-II PS-Sikar II 2nd Transmission Line on NH-458 (Silanwad-Nimbijodha Highway) between Ch. No. 12.00 Km to 12.200 Km near Village-Ratau, Tehsil-Ladnu, District-Nagaur in the State of Rajasthan was recommended to Competent Authority, RO-Jaipur to accord "In-principle" approval thereof.

Competent Authority, RO-Jaipur vide their letter dated 29.05.2024 (Annex-2) has raised certain observations and returned the proposal unapproved. The same has been communicated to agency M/s. Powergrid Bhadla Sikar Transmission Ltd. (PBSTL), Nagaur vide this office letter dated 12.06.2024 (Annex-3) for necessary compliance.

In this context, M/s. PBSTL, Nagaur vide their above referred letter dated 28.06.2024 (Annex-4) has submitted compliance to this office, which details are as under:

Sl. No.	Observations	Compliance
(i)	The Lines belongs to PGCIL, as such, the proof of deposition of required charges not found enclosed with the proposal.	Agency has deposited the required charges of Rs. 5,00,000/- in "Bharat Kosh" bearing Transaction Ref. No. 2706240047052 dated 27.06.2024 and submitted receipt vide their letter dated 28.06.2024 is enclosed herewith.

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(ii)	PD may confirm whether sufficient vertical clearance has been ensured as per new Guidelines looking for future development/up-gradation of the highway.	As per Central Electricity Authority Gazette dated 08.06.2023 (copy enclosed) wherein it is mentioned that Minimum Clearance between Conductor and Road Surface across Highway shall be 18.80 Meter for 765 KV and in the instant proposal, PGCIL has proposed Vertical Clearance as 25.20 meter from the Road Surface which seems considerable.
(iii)	Coloured Drawing showing all details duly signed by all concerned are required.	Agency vide their letter dated 28.06.2024 has submitted the Coloured Drawing showing all details duly signed by all concerned is enclosed herewith.

In view of the above, the proposal is re-submitted with the recommendation of this office to accord "In-Principle" approval for the subjected work, please.

संलग्न: उपरोक्तानुसार। (रफाई)

भवदीय

(ए.के. खण्डेलवाल)

महाप्रबंधक (तक.) / परियोजना निदेशक

प्रतिलिपि: अधिकृत प्रतिनिधि, मै. पावरग्रिड बादला सीकर ट्रांसमिशन लिमिटेड, नागौर; को सूचनार्थ प्रेषित।

CHECK LIST

Guidelines for processing the proposal for laying of utility line in the land along National Highway vested with NHAI/PWD/BRO.

General Information

1. Name and address of the Applicant/Agency : DGM, Power grid Bhadla-Sikar TL Ltd.
Construction Office: Type 5th
Quarters, Manasar, Nagaur (Raj.) - 341001
2. National Highway No. : NH-458
3. State : Rajasthan
4. Location : AP99/0(DB1+0), AP100(DB1+0) In
between Genana & Ratau Village
5. Chainage in Km : Chainage-12.00-12.200 Km
6. Span Length of crossing in M : 248Mtr.
7. Width of available ROW on both side : 67 Mtr. (Right side-33.5M, Left side-33.5M).
8. Side of NH : Over & Across the National Highway
(Left or right side of NH towards increasing chainage/km direction)
9. Name of the Authority : National Highway Authority of India
10. Highway administration address : National Highway Authority of India,
Project Implementation Unit
B-136-C, B-Block, Panchsheel Nagar,
Ajmer(Raj)-305004

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उप-महाप्रबंधक / DGM

पी. बी. एस. टी. एल./ PBSTL

नागौर / Nagaur

जितेन्द्र मीना



CHECK LIST**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 layering of overhead electrical line along the National Highways NH-458, vested with NHAI.

SL. NO	Item	Information/ status	Remarks
1	General Information	2nd 765 KV D/C Bhadla-II to Sikar-II Transmission line-Part-II	
1.1	Name and address of the applicant (DGM,PBSTL)	2nd 765 KV D/C Bhadla-II to Sikar-II Transmission line-Part-II Transmission Line Construction Office:Type 5th Quarter, BSNL Manasar, Nagaur (Raj.) - 341001	
1.2	National Highway No	NH-458	
1.3	State	Rajasthan	
1.4	Location	Village-Ratau, District-Didwana.	
1.5	Type of electric including carrying voltage details and purpose	2nd 765 KV D/C Bhadla-II to Sikar-II Transmission line- Part-II	
1.6	Chainage in Kilometers	12.00-12.200KM	
1.7	Length in Metre	248 Mtr.	
1.8	Width of available ROW	67 Mtr.	
	(a). Left side from Center Line towards increasing chainage / KM Direction.	Towards Genana at a distance of 33.50Mtr. from the Road Boundry.	
	(b) Right side from Center Line towards increasing chainage / KM Direction.	Towards Ratau at a distance of 33.50 Mtr. From the Road Boundry.	
1.9	Proposal of Overhead Crossing of 765KV D/C Bhadla II Sikar II Line-2		
	(a) Left side from Center Line towards increasing chainage / KM Direction (b) Right side from Center Line towards increasing chainage / KM Direction (c) Erection of Electrical line along the NH 458	AP99/0 at a distance of 89.0 Mtr. From Road Boundry. AP100/0 at a distance of 114.0 Mtr. from of Road Boundry. NA	
1.10	Proposal to acquire land	NA	
	(a)Left side from Center Line		
	(b)Right side from Center Line		
1.11	Whether the proposal is a- in the same side where land is not to be acquired b- Crossing the National Highway	Yes. Crossing the National Highway. Towers shall be constructed outside NHAI Land.	
1.12	Details of Already laid services (overhead telecommunication line,	NA	
1.13	NO of lanes (2/4/6/8 lanes) existing	2 Lanes	
1.14	Proposed number of lanes (2 lanes with paved shoulder 4/6/8 lanes)	NA	
1.15	Service Road existing or not If yes then which side	No Service Road.	

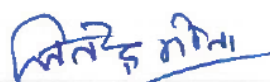


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	a) Left side from center \line	N/A	
	b) Right side from center line	N/A	
1.16	Proposed Service Road	N/A	
	a) Left side from center line		
	b) Right side from center line		
1.17	Whether proposal to lay overhead electric line is after the service road 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 Power Transmission Line crossing the NH-458.(Track shall be constructed circle NH land.	
1.18	I- If crossings of the roads involved (a) Crossing angle for NH and provide length along the Highway (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. (i) Type of Existing / proposed structure for National Highways (ii)- What is the distance of tower, pole and tension tower lying from the existing / proposed structure for National Highways.	Yes (a) 89°21'34", 248Mtr. (b) Distance is 89.0 Mtr at Tower AP99/0(DB1+0). & AP100/0(DB1+0) 114.0 Mtr. From centre of the NH Boundry. (i) Lattice structure Tower (ii)Distance is 89.0 Mtr. & 114.0 Mtr. From centre of the NH Boundry.	
	(c)- The overhead lines and their supporting poles / towers should ordinarily be placed at the extreme age of the road land boundary. In any case, these shall be atleast 10 meter away for the age 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?	Yes (a) 89°21'34", 248Mtr. (b) Distance is 89.0 Mtr at Tower AP99/0(DB1+0). & AP100/0(DB1+0) 114.0 Mtr. From centre of the NH Boundry. (i) Lattice structure Tower (ii)Distance is 89.0 Mtr. & 114.0 Mtr. From centre of the NH Boundry.	
	(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?	N/A. Towers shall be constructed at a distance of 111.50 Mtr. (Right Side) & 136.50 Mtr. (Lift Side) towards increasing chainage direction from center of Road towards increasing Chainage direction.	
	(e)- in mountainous / hilly terrain the over head lines should be erected preferably on the valley side as far away as practicable .In hilly reason, 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 clear ance underneath conductor and side clear ances in swung conditions. Is the proposal in hilly area?	No	
	(f)The horizontal clearances in respect of poles erected for the purpose of street lighting in Urban situations Shall be as under:-	NA	
	i-For roads with Minimum 300mm from the Raised kerbs 300mm from the aged of nearest kerb Preferably 600mm.	NA	
	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.	NA	
	(g) the Pylons of HT lines along crossing the road shall be located outside the NH land.	NA	




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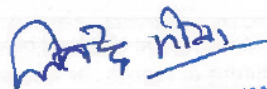
	(h) for crossing the line of same voltage or lower voltage , suspension/tension tower with suitable extensions shall be used.	YES, Tension Towers with suitable extension shall be used.	
	(i) The vertical clearance of the overhead lines crossing the road shall be reckoned from the top of the crown of 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 1 to IV and Indian Electricity Rules 1956 as under.	25.20 Mtr. Ground Clearance shall be taken jointly with PBSTL and 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- 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).	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 <i>alteratians</i> to the overhead electrical line located in the National Highway right of way.	Yes	



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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.	Yes	
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.	Yes	
2.12	Certificate from the applicant in the following format : (i) Laying of overhead electrical will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) 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.	Yes	
2.14	The applicant ensures the safety of the Highway traffic against the Hazards of the high voltage lines during installation , operation and maintenance.	Yes	




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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	
3	Other documents and drawing to be furnished by the applicant.		
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(expendable 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 license for clearing debris/ loose earth.	NA	
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 any other structure existing of proposed etc.	Yes	
4	Certificate from the Project Director.		
4.1	Certificate for confirming that the proposal has been examined with respect to the structures and developmenta work considered at this location and compliance of the standard conditions issued vide ministry circular no- NH-JII/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:-	NA	
	(ii) for 6 laning		
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 RJ- gradation of. (Nimbi Jodhan-Silanwad) Bhind section from KM 12 to Km 13 NH no 458, on build operate and (transfer basis) and therefore the licensee shall honour the same."	NA	
6	Who will supervise the work of laying of overhead electrical line.	PBSTL	
	Who will the sign the agreement on behalf of overhead electrical line agency.	DGM, PBSTL	
	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.	PBSTL	
	Who will pay the claims for damages done / disruption in working of concessionaire, if asked by the concessionaire.	PBSTL	
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).	NHAI	
	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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नागौर / Nagaur

NIMBI JODHAN TO SILANWAD NH-458 Crossing at chainage 12.00KM & 12.200KM. for construction of 765kV D/C Bhadla-II to PS Sikar-II 2nd Transmission Line Between tower location no. 99/0 (DB1+0) & 100/0 (DB1+0)

Name of Transmission Line: 765kV D/C Bhadla-II to PS Sikar-II 2nd Transmission Line

1	Situation of the EHV transmission line crossing on National Highway.	NIMBI JODHAN TO SILANWAD NH-458 Crossing at chainage 12.00KM & 12.200KM near village - Ratau	
2	Site plan showing location of crossing (with NH boundaries) in reference to NH mileage to be supplied in triplicate.	Site Plan Drawing is enclosed Showing the NH boundaries & NH Mileage. Drawing No.- O22017-T-TL-0D-DC-2004	
3	Angle of crossing of the transmission line with the National Highway at crossing point.	Deg. 89°21'34"	
4	The length of the span at the crossing and also those on either side of the crossing.	A) Crossing span 248 Mtr. B) Preceding span 378 Mtr. C) Succeeding span 360 Mtr.	
5	In the event of the transmission line Deviating at any of the supports of the Crossing necessitating one of the Structures to be a 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.	Angle Tower Location No. AP99/0 (DB1+0) - 6°48'36"RT AP100/0 (DB1+0) - 6°06'45"LT	
6	The number, size and materials of the Conductors and wires crossing the NH each wire under phase, neutral each guard, bearer and guard cross wire should be separately described and their disposition indicated by means of a sketch.	A) AL59ZEBRA Al. 61/3.08 mm Overall dia- 27.72mm B) E/W - 7/3.66mm steel, Overall dia- 10.98mm C) OPGW - One no. 7/3.66 mm (steel)	
7	Indicate whether the proposed guard is to be -restricted to the crossing span or it is to be continued over the adjacent span.	No Guard wire is provided	
8	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	
9	System of supply (i.e voltage) frequency, No. of phases, whether neutral is earthed or not).	765kV, 50 Hz., 6 phase, D/C With 1No E/W & 1 No OPGW.	
10	Height of structure above ground and Below ground separately and details of foundation.	A) Angle tower location no. AP99/0 (DB1+0) Height above 70.725 Mtr. Depth below GL = 3.50 M. B) Angle tower location no. AP100/0 (DB1+0) Height above 70.725 Mtr. Depth below GL = 3.50 M.	
11	Height above ground level of (1) Lowest conductor on insulator and (2) guard wire on bracket above ground level.	Angle Tower Location No. AP99/0 (DB1+0) = 25.136 M. AP100/0 (DB1+0) = 24.848 M.	
12	Height of road level above ground level measured at the foot of the structure.	Angle Tower Location No. AP99/0 (DB1+0) = 2.050 M. AP100/0 (DB1+0) = -1.190 M.	



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13	Clearance under maximum sag Conditions between road level and lowest live conductor and between road level and lowest guard wire (state if "Box" Type guarding is provided in case of adoptions of earthed neutral system).	At road = 25.20 Mtr.	
14	Ultimate tensile stress of the steel wire Used for guard of earthwire in tones per Sq.Cms.	Not Applicable	
15		Angle Tower Location No. AP99/0 (DB1+0) = 89.0 M.	
		Angle Tower Location No. AP100/0 (DB1+0) = 114.0 M.	
16	Are the proposed structures is in NH boundary.	No, Both structures are Outside of NH	
17	Are approved anti climbing devices and warning notices provided on the structures erected.	AntiClimbing Devices & danger plates to be provided on both the towers.	
18	National/State the tensile strength and dimension of the steel used for construction of each member of the supporting structures. It is to be noted, must be approved design in conforming with I.S.I code of practice for use of structural steel in general building construction (IS. 800 1965).	Tested Steel quality Lattice steel structure made of mild steel and high tensile steel in conformity with clause 4.0 of I.S. 226-1975 and with a tensile strength of 15704 Lbs/Sq. inch.	
19	Dimensions and types of brackets used for the cross arms as well as for the guard Wires.	Not applicable for Transmission Line.	
20	Is each structure of the crossing span independently earthed by mean of an earth plate.	Yes, each structure is earthed.	
21	Is each structure supported by means of stage in three directions give the size of guy wires, (the neglected in calculating the strength of the structures).	No guys or stays are provided structures are self Supporting.	
22	If no guard wire is provided, is the transmission line protected by device to ensure instantaneous solution in conduction.	Yes, the transmission line is protected instantaneously by high speed protection relays with carrier equipment.	
23	Type of insulators used.	Polymer discs of electromechanical strength of single disc =210KN.	
24	State the method of maintenance to be employed to ensure the following protections.		
A	From overhanging of decaying trees which might fall on the line.	Tree clearance to a width of 67M+3M is done.	
B	To reduce the hazard to life and property.	Warning Danger plates are provided.	
C	Supporting structure including guys, from the danger of being struck by moving road vehicle.	Structure are at safe distance from road.	
25	Drawing showing details of crossing disturbance of road, ground or attachment that may be Necessary (to be supplied in quadruplicate).	Enclosed	



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