सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Government of India)
क्षेत्रीय कार्यालय–पश्चिम उ०प्र०, लखनऊ Regional Office - West UP, Lucknow.
3/248, विशाल खण्ड, गोमती नगर, लखनऊ–226010 (उ.प्र.)
3/248, Vishal Khand, Gomti Nagar, Lucknow-226010 (UP)
दूरभाष / Phone : 0522-4960291, टेलीफैक्स / Fax : 0522-4950680
ई–मेल / E-mail : rowestup@nhai.org, rowestup@gmail.com

19001/1/RO-W-UP/NH-509/UG/DVVNL/NOC/ 1709 **Date: 21.11.2022**

Invitation of Public Comments

Sub: Proposal for permission for laying of 11 KV underground electrical cable by Dakshinanchal Vidhyut Vitran Nigam Limited (DVVNL), Odhpura, Hathras by crossing the National Highway-509 at Ch.178.520, Ch.184.279, Ch.188.361, Ch.180.930, Ch.209.674 with 11 kV XLPE in District Hathras in the State of Uttar Pradesh.

The Authorized Signatory M/s DVVNL, Agra has submitted the proposal for crossing permission for laying of 11 KV underground electrical cable by Dakshinanchal Vidhyut Vitran Nigam Limited (DVVNL), Odhpura, Hathras by crossing the National Highway-509 at Ch.178.520, Ch.184.279, Ch.188.361, Ch.180.930, Ch.209.674 with 11 kV XLPE in District Hathras in the State of Uttar Pradesh.

2. 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).

3. 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 Chief General Manager cum Regional Officer,
National Highways Authority of India
Regional Office, UP-West, Lucknow
3/248, Vishal Khand, Gomti Nagar
Lucknow-226 010

This is issues with the approval of RO-West (UP).

Encl: As above.

21/11/2022

(N.P. Singh)
DGM (T)
For RO-West, UP

Copy to:

1. Web Admin, NHAI-HQ- with request for uploading on the NHAI website.
2. The Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website.
3. The Authorized Signatory, M/s DVVNL, Agra for information.
4. The PD, PIU-Agra for information.

Ch. 178.520

CHECK - LIST

Guidelines for processing the proposal for laying electrical cable/HDPE Pipe accross National Highways vested with NHAI/PIU/AGRA.

Relevant Circulars

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

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at NH 509 land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Aligarh Zone (Hathras District) Project	
1.1	Name and Address of the Applicant/Agency	**Executive Engineer,** Dakshinanchal Vidyut Vitran Nigam Limited, EDD-2 132 KV S/STN Mathura Road, Hathras, Uttar Pradesh	
1.2	National Highway Number	NH 509	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 178.520 Km (NH 509)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 178.520 Km (NH 509)	
1.6	Length in Meters	(32.8 Mtr. x 2 Run) x 1 Nos. =65.6 Mtrs.	
1.7	Width of available ROW		
	(a) Left side from center line to tower towards increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km.178.520 Km (NH 509)	
	(b) Right side from center line to tower increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km.178.520 Km (NH 509)	
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards increasing chainage/Km direction	15.2 Mtr. From center of road (As per drawing attached)	
	(b) Right side from center line towards increasing chainage/Km direction	17.6 Mtr. From center of road (As per drawing attached)	
1.9	Proposal to acquire land	No	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	No land acquisition required	
	If not then where to lay the cable	Crossing at main carriageway (Below Road)	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	2 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Not	

देव दत्त सिंह/Dev Datt Singh
उप. प्रबंधक (सक०)/Dy. Manager (Tech.)
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National Highways Authority of India
परियोजना कार्यान्वयन इकाई–आगरा
Project Implementation Unit-Agra

संजय वर्मा/Sanjay Verma
परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/
National Highways Authority of India

Executive Engineer
Electricity Distribution Division II
Hathras

S.No.	Item	Information/Status	Remarks
	If yes then which side (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 laying UG-Electrical Cable line is afler the service road or between the service road and main carriageway	Crossing at main carriageway (Below Road)	
1.17	Whether carrying of sewage/gas pipe line has been propsoed on highway Bridges. If Yes, the mention the methodology	NA	
1.18	Whether carrying of sewage/gas pipe line has been propsoed on parapet/any part of the bridges. If Yes, the mention the methodology	NA	
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.	YES Electrical cable will be laid in 160mm HDPE Pipe with HDD method for crossing	
	a) Whether existing drainage structure allowed to carry utility pipeline.	NA	
	b} Is it on a line normal to NH	YES	
	c) What is the distance of crossing the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	As per NHAI Norms	
	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 withdrawal of the carrier pipe / cable.	HDPE Pipe 160mm Dia	
	e) Ends of the casing / conduit pipe / tower foundation shall be sealed from the outside, so that it does not act as a drainage path.	YES	
	f) The casing / conduit pipe should, as minimum extend from drain to dain in cuts and toe of slop toe of slope in the fills.	YES	
	g) The top of the casing/conduit pipe / tower foundation should be at least 1.2 meter below the surface of the road subject to bring atleast 0.3 m below the drain inverts.	YES	
	h) Mention the methodology propseod for crossing of road for the proposed UG electrical cable. Crossing shall be by boring method (HDD) specially wriere the existing road pavement is of cement concrete or dense bituminous concrete type.	By HDD Method Drawing for methodology 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.	As per NHAI Norms	
2	Document / drawing, enclosed with the proposal	Drawing Enclosed	

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Hathras

S.No.	Item	Information/Status	Remarks
2.1	Cross section showing the size of the trench for open trenching method. (Is it normal size of 1.6m (min) deep X 0.3 wide) i)Should not be greater than 60 cm wider than the outer diameter of the pipe. ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-line of the nearest carriageway iii) shall not be permitted to run along the National highway 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 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Drawing Enclosed	
2.2	Cross section showing the size of pit and location of pipe line for HDD method.	Drawing Enclosed	
2.3	Strip plan / Route plan showing the cables. chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drawings work etc.	YES, Drawing Enclosed	
2.4	Methodology for laying of electrical cable	By HDD Method	
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 alleast 30 cm but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(b) For filling of the trench, bedding shall be to a depth of not less than 30 cm. 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 replaced by selected material	NA	
	(c) The backfill shall be completed in two stages (i) side-fill to the elvel fo the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	
	d) The side fill 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 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 Directional Drilling (HDD) method.	YES	

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National Highways Authority of India

S.No.	Item	Information/Status	Remarks
2.4.3	Methodology for laying of electrical cable through CD works and method of Laying. In cases where the carrying of gas pipe line on the bridge becoems inescapable.	NA	
3	Draft License agreement signed by two witnesses.	YES	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016	As per applecable	
4	Whether Performance Bank Guarnatee as Ministry's guidelines issued vide circular No. RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016 is obtained.	An undertaking given by the agency towards Performance Bank Guarantee as per extant norms MoRTH per each crossing as demanded by NHAI/MoRTH.	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Not Submitted	
5	Affidavit / undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Undertaking for not to Damage any other utility. If damaged then to pay the losses either to NHAI or to the concerned agency.	YES, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	YES, Enclosed	
5.3	Undertaking for Confirming all standard conditions of Ministry Circulars and NHAI's guideline	YES, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	YES, Enclosed	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	YES, Enclosed	
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be pid by the applicant.	YES, Enclosed	
5.7	Undertaking that prior apporval of the NHAI shall be obtained before undertaking any work of the installation, shifting or repairs or alterations to the utility located in the National Highway right of ways.	YES, Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage casued to the Nationl Highway by the laying, maintanance or shifting of the utility line will be borne by the applicant agency owning the line.	YES, Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued Vide Ministry's Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	YES, Enclosed	
5.10	Undertaing that the applicant has obtaind various safety clearences from the representative authorities such as Directorate of Electricity, Chief controller of Explosives. Petroleum and Explosive Safety organisation UTI Industry Safety Direcotrate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administrtation.	YES, Enclosed	

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Executive Engineer
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S.No.	Item	Information/Status	Remarks
5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work fo 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 i) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) for 6 laning "we do undertake that I will relocate services road / approach road / utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development.	YES, Enclosed	
6	Who willl sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Aligarh Zone	
	Power of Attorney to sign the agreement is available or not	YES	
7	The Project Director, will submit the following Certificates.	-	
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	-	
7.2	Certificate from PD in the following format (i) " It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, statbility & traffic safety of the highway nor the likely future improvement. Such as widening of the carriageway, easing of Curve etc". (ii) for 6-lanning (a) Where feasibility is available " I do certify that there will be no hindrance to proposed six-lanning based on the feasibilityreport 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 accommodation proposed six-laning"	-	
8	If NH section proposed to be taken up by NHAI on BOT basis — s cause in para 9 to be inserted in the agreement. "The permitted Highway on which license has been granted as a right to lay cable / duct, has also been granted as a right of the way to be concessional under the concession agreement for up-gradation on build, operate and transfer basis and therefore, the license shall honor the same".	NA	

Executive Engineer
Electricity Distribution Division II
Hathras

S.No.	Item	Information/Status	Remarks
9	Who will supervise the work of laying of UG Electrical Cable/HDPE Pipe		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
10	Who will ensure that the defects in road portion after laying of over Head electrical line are corrected and if not corrected then what action will be taken.		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	NCC Limited Mr. Ajit Kumar(+91-7979022943) Project Manager Feeder Separation Project, Aligarh Zone (Hathras District)	
12	A certificate from Project Director that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed).	-	
13	If any previous approval is accorded for laying of UG electrical cable then photocopy of register of records of permissions accorded as maintained by Project Director may be enclosed	NA	

[Name, Designation and signature of the authorised representative of Applicant]

[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

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Executive Engineer
Electricity Distribution Division II
Hathras

CR-184.279

CHECK - LIST

Guidelines for processing the proposal for laying electrical cable/HDPE Pipe accross National Highways vested with NHAI/PIU/AGRA.

Relevant Circulars

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

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at NH 509 land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Aligarh Zone (Hathras District) Project	
1.1	Name and Address of the Applicant/Agency	**Executive Engineer,** Dakshinanchal Vidyut Vitran Nigam Limited, EDD-2 132 KV S/STN Mathura Road, Hathras, Uttar Pradesh	
1.2	National Highway Number	**NH 509**	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 184.279 Km (NH 509)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 184.279 Km (NH 509)	
1.6	Length in Meters	(45 Mtr. x 2 Run) x 1 Nos. = 90 Mtrs.	
1.7	Width of available ROW		
	(a) Left side from center line to tower towards increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 184.279 Km (NH 509)	
	(b) Right side from center line to tower increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 184.279 Km (NH 509)	
8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards increasing chainage/Km direction	(As per drawing attached)	
	(b) Right side from center line towards increasing chainage/Km direction	(As per drawing attached)	
1.9	Proposal to acquire land	No	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	No land acquisition required	
	If not then where to lay the cable	Crossing at main carriageway (Below Road)	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	2 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Not	

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Electricity Distribution Division II
Hathras

S.No.	Item	Information/Status	Remarks
	If yes then which side (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 laying UG-Electrical Cable line is afler the service road or between the service road and main carriageway	Crossing at main carriageway (Below Road)	
1.17	Whether carrying of sewage/gas pipe line has been propsoed on highway Bridges. If Yes, the mention the methodology	NA	
1.18	Whether carrying of sewage/gas pipe line has been propsoed on parapet/any part of the bridges. If Yes, the mention the methodology	NA	
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.	YES Electrical cable will be laid in 160mm HDPE Pipe with HDD method for crossing	
	a) Whether existing drainage structure allowed to carry utility pipeline.	NA	
	b} Is it on a line normal to NH	YES	
	c) What is the distance of crossing the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	As per NHAI Norms	
	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 withdrawal of the carrier pipe / cable.	HDPE Pipe 160mm Dia	
	e) Ends of the casing / conduit pipe / tower foundation shall be sealed from the outside, so that it does not act as a drainage path.	YES	
	f) The casing / conduit pipe should, as minimum extend from drain to dain in cuts and toe of slop toe of slope in the fills.	YES	
	g) The top of the casing/conduit pipe / tower foundation should be at least 1.2 meter below the surface of the road subject to bring atleast 0.3 m below the drain inverts.	YES	
	h) Mention the methodology propseod for crossing of road for the proposed UG electrical cable. Crossing shall be by boring method (HDD) specially wriere the existing road pavement is of cement concrete or dense bituminous concrete type.	By HDD Method Drawing for methodology 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.	As per NHAI Norms	
2	Document / drawing enclosed with the proposal	Drawing Enclosed	

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S.No.	Item	Information/Status	Remarks
2.1	Cross section showing the size of the trench for open trenching method. (Is it normal size of 1.6m (min) deep X 0.3 wide) i)Should not be greater than 60 cm wider than the outer diameter of the pipe. ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-line of the nearest carriageway iii) shall not be permitted to run along the National highway 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 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Drawing Enclosed	
2.2	Cross section showing the size of pit and location of pipe line for HDD method.	Drawing Enclosed	
2.3	Strip plan / Route plan showing the cables. chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drawings work etc.	YES, Drawing Enclosed	
2.4	Methodology for laying of electrical cable	By HDD Method	
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 alleast 30 cm but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(b) For filling of the trench, bedding shall be to a depth of not less than 30 cm. 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 replaced by selected material	NA	
	(c) The backfill shall be completed in two stages (i) side-fill to the elvel fo the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	
	d) The side fill 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 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	

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Executive Engineer
Electricity Distribution Division-I
Batara

S.No.	Item	Information/Status	Remarks
2.4.2	Horizontal Directional Drilling (HDD) method.	YES	
2.4.3	Methodology for laying of electrical cable through CD works and method of Laying. In cases where the carrying of gas pipe line on the bridge becoems inescapable.	NA	
3	Draft License agreement signed by two witnesses.	YES	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016	As per applecable	
4	Whether Performance Bank Guarnatee as Ministry's guidelines issued vide circular No. RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016 is obtained.	An undertaking given by the agency towards Performance Bank Guarantee as per extant norms MoRTH per each crossing as demanded by NHAI/MoRTH.	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Not Submitted	
5	Affidavit / undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Undertaking for not to Damage any other utility. If damaged then to pay the losses either to NHAI or to the concerned agency.	YES, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	YES, Enclosed	
5.3	Undertaking for Confirming all standard conditions of Ministry Circulars and NHAI's guideline	YES, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	YES, Enclosed	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	YES, Enclosed	
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be pid by the applicant.	YES, Enclosed	
5.7	Undertaking that prior apporval of the NHAI shall be obtained before undertaking any work of the installation, shifting or repairs or alterations to the utility located in the National Highway right of ways.	YES, Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage casued to the Nationl Highway by the laying, maintanance or shifting of the utility line will be borne by the applicant agency owning the line.	YES, Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued Vide Ministry's Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	YES, Enclosed	
5.10	Undertaing that the applicant has obtaind various safety clearences from the representative authorities such as Directorate of Electricity, Chief controller of Explosives. Petroleum and Explosive Safety organisation UTI Industry Safety Direcotrate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administrtation.	YES, Enclosed	

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Executive Engineer
Electricity Distribution Division II
Hathras

S.No.	Item	Information/Status	Remarks
5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work fo 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 i) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) for 6 laning "we do undertake that I will relocate services road / approach road / utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development.	YES, Enclosed	
6	Who willl sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Aligarh Zone	
	Power of Attorney to sign the agreement is available or not	YES	
7	The Project Director, will submit the following Certificates.	-	
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	-	
7.2	Certificate from PD in the following format (i) " It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, statbility & traffic safety of the highway nor the likely future improvement. Such as widening of the carriageway, easing of Curve etc". (ii) for 6-lanning (a) Where feasibility is available " I do certify that there will be no hindrance to proposed six-lanning based on the feasibilityreport 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 accommodation proposed six-laning"	-	
8	If NH section proposed to be taken up by NHAI on BOT basis — s cause in para 9 to be inserted in the agreement. "The permitted Highway on which license has been granted as a right to lay cable / duct, has also been granted as a right of the way to be concessional under the concession agreement for up-gradation on build, operate and transfer basis and therefore, the license shall honor the same".	NA	

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Hathras

S.No.	Item	Information/Status	Remarks
9	Who will supervise the work of laying of UG Electrical Cable/HDPE Pipe		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
10	Who will ensure that the defects in road portion after laying of over Head electrical line are corrected and if not corrected then what action will be taken.		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	NCC Limited Mr. Ajit Kumar(+91-7979022943) Project Manager Feeder Separation Project, Aligarh Zone (Hathras District)	
12	A certificate from Project Director that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed).	-	
13	If any previous approval is accorded for laying of UG electrical cable then photocopy of register of records of permissions accorded as maintained by Project Director may be enclosed	NA	

[Name, Designation and signature of the authorised representative of Applicant]

Executive Engineer
Electricity Distribution Division II
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[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

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Ch·188·361

CHECK - LIST

Guidelines for processing the proposal for laying electrical cable/HDPE Pipe accross National Highways vested with NHAI/PIU/AGRA.

Relevant Circulars

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

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at Hathras Bypass (NH 509) land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Aligarh Zone (Hathras District) Project	
1.1	Name and Address of the Applicant/Agency	**Executive Engineer,** Dakshinanchal Vidyut Vitran Nigam Limited, EDD-2 132 KV S/STN Mathura Road, Hathras, Uttar Pradesh	
1.2	National Highway Number	**HATHRAS BYPASS (NH 509)**	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 188.361 (HATHRAS BYPASS (NH 509)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 188.361 (HATHRAS BYPASS (NH 509)	
1.6	Length in Meters	(35 Mtr. x 2 Run) x 1 Nos. =70 Mtrs.	
1.7	Width of available ROW		
	(a) Left side from center line to tower towards increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 188.361 (HATHRAS BYPASS (NH 509)	
	(b) Right side from center line to tower increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 188.361 (HATHRAS BYPASS (NH 509)	
.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards increasing chainage/Km direction	As per drawing attached	
	(b) Right side from center line towards increasing chainage/Km direction	As per drawing attached	
1.9	Proposal to acquire land	No	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	No land acquisition required	
	If not then where to lay the cable	Crossing at main carriageway (Below Road)	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	2 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Not	

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Hathras

S.No.	Item	Information/Status	Remarks
	If yes then which side (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 laying UG-Electrical Cable line is afler the service road or between the service road and main carriageway	Crossing at main carriageway (Below Road)	
1.17	Whether carrying of sewage/gas pipe line has been propsoed on highway Bridges. If Yes, the mention the methodology	NA	
1.18	Whether carrying of sewage/gas pipe line has been propsoed on parapet/any part of the bridges. If Yes, the mention the methodology	NA	
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.	YES Electrical cable will be laid in 160mm HDPE Pipe with HDD method for crossing	
	a) Whether existing drainage structure allowed to carry utility pipeline.	NA	
	b} Is it on a line normal to NH	YES	
	c) What is the distance of crossing the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	As per NHAI Norms	
	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 withdrawal of the carrier pipe / cable.	HDPE Pipe 160mm Dia	
	e) Ends of the casing / conduit pipe / tower foundation shall be sealed from the outside, so that it does not act as a drainage path.	YES	
	f) The casing / conduit pipe should, as minimum extend from drain to dain in cuts and toe of slop toe of slope in the fills.	YES	
	g) The top of the casing/conduit pipe / tower foundation should be at least 1.2 meter below the surface of the road subject to bring atleast 0.3 m below the drain inverts.	YES	
	h) Mention the methodology propseod for crossing of road for the proposed UG electrical cable. Crossing shall be by boring method (HDD) specially wriere the existing road pavement is of cement concrete or dense bituminous concrete type.	By HDD Method Drawing for methodology 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.	As per NHAI Norms	
2	Document / drawing enclosed with the proposal	Drawing Enclosed	

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Hathras

S.No.	Item	Information/Status	Remarks
2.1	Cross section showing the size of the trench for open trenching method. (Is it normal size of 1.6m (min) deep X 0.3 wide) i)Should not be greater than 60 cm wider than the outer diameter of the pipe. ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-line of the nearest carriageway iii) shall not be permitted to run along the National highway 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 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Drawing Enclosed	
2.2	Cross section showing the size of pit and location of pipe line for HDD method.	Drawing Enclosed	
2.3	Strip plan / Route plan showing the cables. chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drawings work etc.	YES, Drawing Enclosed	
2.4	Methodology for laying of electrical cable	By HDD Method	
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 alleast 30 cm but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(b) For filling of the trench, bedding shall be to a depth of not less than 30 cm. 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 replaced by selected material	NA	
	(c) The backfill shall be completed in two stages (i) side-fill to the elvel fo the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	
	d) The side fill 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 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	

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S.No.	Item	Information/Status	Remarks
2.4.2	Horizontal Directional Drilling (HDD) method.	YES	
2.4.3	Methodology for laying of electrical cable through CD works and method of Laying. In cases where the carrying of gas pipe line on the bridge becoems inescapable.	NA	
3	Draft License agreement signed by two witnesses.	YES	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016	As per applecable	
4	Whether Performance Bank Guarnatee as Ministry's guidelines issued vide circular No. RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016 is obtained.	An undertaking given by the agency towards Performance Bank Guarantee as per extant norms MoRTH per each crossing as demanded by NHAI/MoRTH.	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Not Submitted	
5	Affidavit / undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Undertaking for not to Damage any other utility. If damaged then to pay the losses either to NHAI or to the concerned agency.	YES, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	YES, Enclosed	
5.3	Undertaking for Confirming all standard conditions of Ministry Circulars and NHAI's guideline	YES, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	YES, Enclosed	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	YES, Enclosed	
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be pid by the applicant.	YES, Enclosed	
5.7	Undertaking that prior apporval of the NHAI shall be obtained before undertaking any work of the installation, shifting or repairs or alterations to the utility located in the National Highway right of ways.	YES, Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage casued to the Nationl Highway by the laying, maintanance or shifting of the utility line will be borne by the applicant agency owning the line.	YES, Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued Vide Ministry's Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	YES, Enclosed	
5.10	Undertaing that the applicant has obtaind various safety clearences from the representative authorities such as Directorate of Electricity, Chief controller of Explosives. Petroleum and Explosive Safety organisation UTI Industry Safety Direcotrate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administrtation.	YES, Enclosed	

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5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work fo 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 i) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) for 6 laning "we do undertake that I will relocate services road / approach road / utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development.	YES, Enclosed	
6	Who willl sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Aligarh Zone	
	Power of Attorney to sign the agreement is available or not	YES	
7	The Project Director, will submit the following Certificates.	-	
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	-	
7.2	Certificate from PD in the following format (i) " It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, statbility & traffic safety of the highway nor the likely future improvement. Such as widening of the carriageway, easing of Curve etc". (ii) for 6-lanning (a) Where feasibility is available " I do certify that there will be no hindrance to proposed six-lanning based on the feasibilityreport 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 accommodation proposed six-laning"	-	
8	If NH section proposed to be taken up by NHAI on BOT basis — s cause in para 9 to be inserted in the agreement. "The permitted Highway on which license has been granted as a right to lay cable / duct, has also been granted as a right of the way to be concessional under the concession agreement for up-gradation on build, operate and transfer basis and therefore, the license shall honor the same".	NA	

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परियोजना कार्यान्वयन इकाई–आगरा
Project Implementation Unit-Agra

संजय वर्मा/Sanjay Verma
परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्वयन इकाई–आगरा
Project Implementation Unit-Agra

Executive Engineer
Electricity Distribution Division II
Hathras

S.No.	Item	Information/Status	Remarks
9	Who will supervise the work of laying of UG Electrical Cable/HDPE Pipe		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
10	Who will ensure that the defects in road portion after laying of over Head electrical line are corrected and if not corrected then what action will be taken.		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	NCC Limited Mr. Ajit Kumar(+91-7979022943) Project Manager Feeder Separation Project, Aligarh Zone (Hathras District)	
12	A certificate from Project Director that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed).	-	
13	If any previous approval is accorded for laying of UG electrical cable then photocopy of register of records of permissions accorded as maintained by Project Director may be enclosed	NA	

[Name, Designation and signature of the authorised representative of Applicant]

Executive Engineer
Electricity Distribution Division II
Hathras

[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

संजय वर्मा/Sanjay Verma
परियोजना निदेशक/Project Director
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देव दत्त सिंह/Dev Datt Singh
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भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्वयन
Project Implementation

Ch. 180·93

CHECK - LIST

Guidelines for processing the proposal for laying electrical cable/HDPE Pipe accross National Highways vested with NHAI/PIU/AGRA.

Relevant Circulars

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

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at NH 509 land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Aligarh Zone (Hathras District) Project	
1.1	Name and Address of the Applicant/Agency	**Executive Engineer,** Dakshinanchal Vidyut Vitran Nigam Limited, EDD-2 132 KV S/STN Mathura Road, Hathras, Uttar Pradesh	
1.2	National Highway Number	**NH 509**	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 180.93 Km (NH 509)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 180.93 Km (NH 509)	
1.6	Length in Meters	(42.2 Mtr. x 2 Run) x 1 Nos. =84.4 Mtrs.	
1.7	Width of available ROW		
	(a) Left side from center line to tower towards increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 180.93 Km (NH 509)	
	(b) Right side from center line to tower increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 180.93 Km (NH 509)	
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards increasing chainage/Km direction	per drawing attached	
	(b) Right side from center line towards increasing chainage/Km direction	As per drawing attached	
1.9	Proposal to acquire land	No	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	No land acquisition required	
	If not then where to lay the cable	Crossing at main carriageway (Below Road)	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	2 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Not	

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परियोजना कार्यान्वयन इकाई–आगरा

Executive Engineer
Electricity Distribution Division II
Hathras

	If yes then which side (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 laying UG-Electrical Cable line is afler the service road or between the service road and main carriageway	Crossing at main carriageway (Below Road)	
1.17	Whether carrying of sewage/gas pipe line has been propsoed on highway Bridges. If Yes, the mention the methodology	NA	
1.18	Whether carrying of sewage/gas pipe line has been propsoed on parapet/any part of the bridges. If Yes, the mention the methodology	NA	
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.	YES Electrical cable will be laid in 160mm HDPE Pipe with HDD method for crossing	
	a) Whether existing drainage structure allowed to carry utility pipeline.	NA	
	b} Is it on a line normal to NH	YES	
	c) What is the distance of crossing the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	As per NHAI Norms	
	d) The casing pipe (or conduit pipe in the case of clectric 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 withdrawal of the carrier pipe / cable.	HDPE Pipe 160mm Dia	
	e) Ends of the casing / conduit pipe / tower foundation shall be sealed from the outside, so that it does not act as a drainage path.	YES	
	f) The casing / conduit pipe should, as minimum extend from drain to dain in cuts and toe of slop toe of slope in the fills.	YES	
	g) The top of the casing/conduit pipe / tower foundation should be at least 1.2 meter below the surface of the road subject to bring atleast 0.3 m below the drain inverts.	YES	
	h) Mention the methodology propseod for crossing of road for the proposed UG electrical cable. Crossing shall he hy horing method (HDD) specially wriere the existing road pavement is of cement concrete or dense bituminous concrete type.	By HDD Method Drawing for methodology 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.	As per NHAI Norms	
2	Document / drawing enclosed with the proposal	Drawing Enclosed	

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Hathras

2.1	Cross section showing the size of the trench for open trenching method. (Is it normal size of 1.6m (min) deep X 0.3 wide) i)Should not be greater than 60 cm wider than the outer diameter of the pipe. ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-line of the nearest carriageway iii) shall not be permitted to run along the National highway 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 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Drawing Enclosed	
2.2	Cross section showing the size of pit and location of pipe line for HDD method.	Drawing Enclosed	
2.3	Strip plan / Route plan showing the cables. chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drawings work etc.	YES, Drawing Enclosed	
2.4	Methodology for laying of electrical cable	By HDD Method	
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 alleast 30 cm but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(b) For filling of the trench, bedding shall be to a depth of not less than 30 cm. 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 replaced by selected material	NA	
	(c) The backfill shall be completed in two stages (i) side-fill to the elvel fo the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	
	d) The side fill 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 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 Directional Drilling (HDD) method.	YES	

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Project Implementation Unit-Agra

Executive Engineer
Electricity Distribution Division II
Hathras

2.4.3	Methodology for laying of electrical cable through CD works and method of Laying. In cases where the carrying of gas pipe line on the bridge becoems inescapable.	NA	
3	Draft License agreement signed by two witnesses.	YES	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016	As per applicable	
4	Whether Performance Bank Guarnatee as Ministry's guidelines issued vide circular No. RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016 is obtained.	An undertaking given by the agency towards Performance Bank Guarantee as per extant norms MoRTH per each crossing as demanded by NHAI/MoRTH.	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Not Submitted	
5	Affidavit / undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Undertaking for not to Damage any other utility. If damaged then to pay the losses either to NHAI or to the concerned agency.	YES, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	YES, Enclosed	
5.3	Undertaking for Confirming all standard conditions of Ministry Circulars and NHAI's guideline	YES, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	YES, Enclosed	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	YES, Enclosed	
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be pid by the applicant.	YES, Enclosed	
5.7	Undertaking that prior apporval of the NHAI shall be obtained before undertaking any work of the installation, shifting or repairs or alterations to the utility located in the National Highway right of ways.	YES, Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage casued to the Nationl Highway by the laying, maintanance or shifting of the utility line will be borne by the applicant agency owning the line.	YES, Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued Vide Ministry's Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	YES, Enclosed	
5.10	Undertaing that the applicant has obtaind various safety clearences from the representative authorities such as Directorate of Electricity, Chief controller of Explosives. Petroleum and Explosive Safety organisation UTI Industry Safety Direcotrate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administrtation.	YES, Enclosed	

देव दत्त सिंह/Dev Datt Singh
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परियोजना कार्यान्वयन इकाई–आगरा
Project Implementation Unit-Agra

Executive Engineer
Planning Monitoring Division IT
Madhras

5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work fo 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 i) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) for 6 laning "we do undertake that I will relocate services road / approach road / utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development.	YES, Enclosed	
6	Who willl sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Aligarh Zone	
	Power of Attorney to sign the agreement is available or not	YES	
7	The Project Director, will submit the following Certificates.	-	
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	-	
7.2	Certificate from PD in the following format (i) " It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, statbility & traffic safety of the highway nor the likely future improvement. Such as widening of the carriageway, easing of Curve etc". (ii) for 6-lanning (a) Where feasibility is available " I do certify that there will be no hindrance to proposed six-lanning based on the feasibilityreport 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 accommodation proposed six-laning"	-	
8	If NH section proposed to be taken up by NHAI on BOT basis — s cause in para 9 to be inserted in the agreement. "The permitted Highway on which license has been granted as a right to lay cable / duct, has also been granted as a right of the way to be concessional under the concession agreement for up-gradation on build, operate and transfer basis and therefore, the license shall honor the same".	NA	

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Executive Engineer
Electricity Distribution Division II
संजय वर्मा/Sanjay Verma
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Project Implementation Unit-Agra

9	Who will supervise the work of laying of UG Electrical Cable/HDPE Pipe		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
10	Who will ensure that the defects in road portion after laying of over Head electrical line are corrected and if not corrected then what action will be taken.		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 , 132 KV S/STN Mathura Road, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	NCC Limited Mr. Ajit Kumar(+91-7979022943) Project Manager Feeder Separation Project, Aligarh Zone (Hathras District)	
12	A certificate from Project Director that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed).	-	
13	If any previous approval is accorded for laying of UG electrical cable then photocopy of register of records of permissions accorded as maintained by Project Director may be enclosed	NA	

[Name, Designation and signature of the authorised representative of Applicant]

Executive Engineer
Electricity Distribution Division II
Hathras

[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

देव दत्त सिंह/Dev Datt Singh
उप. प्रबंधक (तक०)/Dy. Manager (Tech)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/
National Highways Authority of India
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Project Implementation Unit-Agra

Ch 209.674

CHECK - LIST

Guidelines for processing the proposal for laying electrical cable/HDPE Pipe accross National Highways vested with NHAI/PIU/AGRA.

Relevant Circulars

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

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at NH 509 land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Aligarh Zone (Hathras District) Project	
1.1	Name and Address of the Applicant/Agency	**Executive Engineer,** Dakshinanchal Vidyut Vitran Nigam Limited, EDD-4 Jaitai road, Sadabad, Hathras, Uttar Pradesh	
1.2	National Highway Number	**NH 509**	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 209.674 (NH 509)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 209.674 (NH 509)	
1.6	Length in Meters	(42 Mtr. x 2 Run) x 1 Nos. =84 Mtrs.	
1.7	Width of available ROW		
	(a) Left side from center line to tower towards increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 209.674 (NH 509)	
	(b) Right side from center line to tower increasing chainage/Km direction	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 209.674 (NH 509)	
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards increasing chainage/Km direction	As per drawing attached	
	(b) Right side from center line towards increasing chainage/Km direction	As per drawing attached	
1.9	Proposal to acquire land	No	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	No land acquisition required	
	If not then where to lay the cable	Crossing at main carriageway (Below Road)	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	2 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Not	

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Executive Engineer
Electricity Distribution Division I
Hathras
E.D.D.
Sadabad

S.No.	Item	Information/Status	Remarks
	If yes then which side (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 laying UG-Electrical Cable line is afler the service road or between the service road and main carriageway	Crossing at main carriageway (Below Road)	
1.17	Whether carrying of sewage/gas pipe line has been propsoed on highway Bridges. If Yes, the mention the methodology	NA	
1.18	Whether carrying of sewage/gas pipe line has been propsoed on parapet/any part of the bridges. If Yes, the mention the methodology	NA	
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.	YES Electrical cable will be laid in 160mm HDPE Pipe with HDD method for crossing	
	a) Whether existing drainage structure allowed to carry utility pipeline.	NA	
	b} Is it on a line normal to NH	YES	
	c) What is the distance of crossing the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	As per NHAI Norms	
	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 withdrawal of the carrier pipe / cable.	HDPE Pipe 160mm Dia	
	e) Ends of the casing / conduit pipe / tower foundation shall be sealed from the outside, so that it does not act as a drainage path.	YES	
	f) The casing / conduit pipe should, as minimum extend from drain to dain in cuts and toe of slop toe of slope in the fills.	YES	
	g) The top of the casing/conduit pipe / tower foundation should be at least 1.2 meter below the surface of the road subject to bring atleast 0.3 m below the drain inverts.	YES	
	h) Mention the methodology propseod for crossing of road for the proposed UG electrical cable. Crossing shall be by boring method (HDD) specially wriere the existing road pavement is of cement concrete or dense bituminous concrete type.	By HDD Method Drawing for methodology 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.	As per NHAI Norms	
2	Document / drawing enclosed with the proposal	Drawing Enclosed	

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परियोजना कार्यान्वयन इकाई–आगरा
Project Implementation Unit-A

अधिशासी अभियन्ता
विद्युत वितरण खण्ड
सादाबाद

S.No.	Item	Information/Status	Remarks
2.1	Cross section showing the size of the trench for open trenching method. (Is it normal size of 1.6m (min) deep X 0.3 wide) i)Should not be greater than 60 cm wider than the outer diameter of the pipe. ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-line of the nearest carriageway iii) shall not be permitted to run along the National highway 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 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Drawing Enclosed	
2.2	Cross section showing the size of pit and location of pipe line for HDD method.	Drawing Enclosed	
2.3	Strip plan / Route plan showing the cables. chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drawings work etc.	YES, Drawing Enclosed	
2.4	Methodology for laying of electrical cable	By HDD Method	
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 alleast 30 cm but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(b) For filling of the trench, bedding shall be to a depth of not less than 30 cm. 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 replaced by selected material	NA	
	(c) The backfill shall be completed in two stages (i) side-fill to the elvel fo the top of the pipe and (ii) overfill to the bottom of the road crust.	NA	
	d) The side fill 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 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	

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2.4.2	Horizontal Directional Drilling (HDD) method.	YES	
2.4.3	Methodology for laying of electrical cable through CD works and method of Laying. In cases where the carrying of gas pipe line on the bridge becoems inescapable.	NA	
3	Draft License agreement signed by two witnesses.	YES	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016	As per applecable	
4	Whether Performance Bank Guarnatee as Ministry's guidelines issued vide circular No. RW/NH- 33044/29/2015/S&R (R) dated 22.11.2016 is obtained.	An undertaking given by the agency towards Performance Bank Guarantee as per extant norms MoRTH per each crossing as demanded by NHAI/MoRTH.	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Not Submitted	
5	Affidavit / undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Undertaking for not to Damage any other utility. If damaged then to pay the losses either to NHAI or to the concerned agency.	YES, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI	YES, Enclosed	
5.3	Undertaking for Confirming all standard conditions of Ministry Circulars and NHAI's guidelino	YES, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	YES, Enclosed	
5.5	Undertaking for management of traffic movement during laying of utility lino without hamporing tho traffic.	YES, Enclosed	
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be pid by the applicant.	YES, Enclosed	
5.7	Undertaking that prior apporval of the NHAI shall be obtained before undertaking any work of the installation, shifting or repairs or alterations to the utility located in the National Highway right of ways.	YES, Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage casued to the Nationl Highway by the laying, maintanance or shifting of the utility line will be borne by the applicant agency owning the line.	YES, Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued Vide Ministry's Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	YES, Enclosed	
5.10	Undertaing that the applicant has obtaind various safety clearences from the representative authorities such as Directorate of Electricity, Chief controller of Explosives. Petroleum and Explosive Safety organisation UTI Industry Safety Direcotrate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administrtation.	YES, Enclosed	

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5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work fo 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 i) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) for 6 laning "we do undertake that I will relocate services road / approach road / utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development.	YES, Enclosed	
6	Who willl sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Aligarh Zone	
	Power of Attorney to sign the agreement is available or not	YES	
7	The Project Director, will submit the following Certificates.	-	
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.	-	
7.2	Certificate from PD in the following format (i) " It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the Installation of Water Supply pipe line within ROW will not adversely affect the design, statbility & traffic safety of the highway nor the likely future improvement. Such as widening of the carriageway, easing of Curve etc". (ii) for 6-lanning (a) Where feasibility is available " I do certify that there will be no hindrance to proposed six-lanning based on the feasibilityreport 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 accommodation proposed six-laning"	-	
8	If NH section proposed to be taken up by NHAI on BOT basis — s cause in para 9 to be inserted in the agreement. "The permitted Highway on which license has been granted as a right to lay cable / duct, has also been granted as a right of the way to be concessional under the concession agreement for up-gradation on build, operate and transfer basis and therefore, the license shall honor the same".	NA	

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9	Who will supervise the work of laying of UG Electrical Cable/HDPE Pipe		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD4, Jatai Road,Sadabad, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
10	Who will ensure that the defects in road portion after laying of over Head electrical line are corrected and if not corrected then what action will be taken.		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD4, Jatai Road,Sadabad, Hathras	
	(b) On bealf of NHAI	Suervision Consultant	
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	NCC Limited Mr. Ajit Kumar(+91-7979022943) Project Manager Feeder Separation Project, Aligarh Zone (Hathras District)	
12	A certificate from Project Director that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed).	-	
13	If any previous approval Is accorded for laying of UG electrical cable then photocopy of register of records of permissions accorded as maintained by Project Director may be enclosed	NA	

[Name, Designation and signature of the authorised representative of Applicant]

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[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

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