

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-2 to 3/UG/DVVNL/NOC/ 1526 Invitation of Public Comments

Date: 08.08.2022

Sub: Permission for crossing of 11 KV underground electrical cable for separation of agriculture consumer and associated work at chainage 10.100, 15.40, 16.850, 17.9, 18.5 & 25.5 of Agra Bypass (Southern).

The Authorized Signatory M/s DVVNL, Agra has submitted the proposal for for crossing of 11 KV underground electrical cable for separation of agriculture consumer and associated work at chainage 10.100, 15.40, 16.850, 17.9, 18.5 & 25.5 of Agra Bypass (Southern) in the State of Uttar Pradesh.

- As per the guidelines, issued by the Ministry vide OM No.RW/NII-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).
- 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.

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.

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 AGRA BYPASS (NH 2 & NH 03 CONNECTOR)

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Agra Zone (Agra District) Project	73832 M
1.1	Name and Address of the Applicant/Agency	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Kamla Nagar, Basant Vihar Kaver Kunj Kamla Nagar Uttar Pradesh	
1.2	National Highway Number	AGRA BYPASS (NH 2 & NH 03 CONNECTOR)	
1.3	State 10 To	Uttar Pradesh	vite from 10
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 10.100 (AGRA BYPASS (NH 2 & NH 03 CONNECTOR))	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 10.100 (AGRA BYPASS (NH 2 & NH 03 CONNECTOR))	- Spen
1.6	Length in Meters	(03.034Mtr. x 2 Run) x 1 Nos =127.668 Mtrs.	THE
1.7	Width of available ROW	Take the same of t	THE REAL PROPERTY.
	(a) Left side from center line to tower towards increasing chainage/Km direction (b) Right cide from center line to tower increasing	30.993 Mtr From center of road (As per drawing attached) 32.841 Mtr From center of road (As per	
Shie.	chainage/Km direction	drawing attached) UG Electrical cable / HDPE Pipo	100
1.8	Proposal to lay the cables (a) Left side from center line towards increasing chainage/Km direction (b) Right side from center line towards increasing chainage/Km direction	30.993 Mtr From center of road (As per drawing attached) 32.841 Mtr From center of road (As per drawing attached)	
1.9	Proposal to acquire land	No	
atla st	(a) Left side from center line	NA	
1553	(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	141
	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 NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	4 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	YES NO	
	If yes then which side (a) Left side from center line	1 Lane	15/41
Sept OF	(b) Right side from Center line	1-Lane	
1.15	Proposed Service road	NA	V.
4613-57	(a) Left side from center line	NA	100
	(b) Right side from center line	NA	

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S.No.	Item	Information/Status	Remark
	(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.		
	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 grainage path.	YES	
	toe of slope in the fills	YE3	
1	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	
5		By HDD Method Drawing for methodology enclosed	
r	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	

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/

National Highways Authority of India

परियोजना कार्यान्वयन इकाई-आगरा ani Sanjay Verma Project Implementation Unit-Acra निवंशक/Project Director

भारतीय राष्ट्रीय राजनार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्योन्ययन इकाई—आगरा

Prolect Implementation Unit-Agra

अधिक्रासी अभियन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा

S.No.	Item	Information/Status	Remark
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.		
2.2	Cross section showing the size of pit and location of pipe line for HDD method.	Drawing Enclosed	
2.5	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	
	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	
- 1	(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 dupth of nor long man au om 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 coil 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	
i t c t	d) The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical ampering and controlled addition of moisture to 25% of the Proctor's Density. Overfill shall be compacted to the same density as the material hat had been removed. Consolidation by saturation or ponding will not be permitted.	NA	
s	e) The road crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the rench	NA	
	The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	NA	
е	expense of agency owning the utility line	NA	
2.4.2 F	forizontal Directional Drilling (HDD) method.	YES	

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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	- N. S.
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	



Site Engineer

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/

National Highways Authority of India

परियोजना कार्यान्वयन इकाई-आगरा

Project Implementation Unit-Agia

परियोजना निदेशक/Project Director

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India विकास कार्यान्यय इकाई-आगरा Project Implementation Unit-Agra

अविशासी अमियन्ता विद्युत वितरण खण्ड-द्वितीय कंगला नगर, आगरा

S.No.	Item	Information/Status	Remarks
(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 NationI 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 comminer 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 Administration.	YES, Enclosed	
5.11	of the MoRTH/NHAI considers it necessary in future to move the utility line for any work for mprovement or repairs to the road it will be carried but as desired by the NHAI at the cost of the agency owning the utility line within a reasonable lime (not exceeding 60 days) of the intimation given.	YES, Enclosed	
5.12 iii	Certificate from the applicant in the following format) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. i) for 6 laning "we do undertake that I will relocate tervices road / approach road / utilities at my own cost not withstanding the permission tranted within such time as will be stipulated by the such properties of the six laning or any other development.	YES, Enclosed	

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा

Project Implementation Unit-Agra

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

अविशासी अमियन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा

S.No.	Item	Information/Status	Remark
6	Who will sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Agra Zone 2	
	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 etructures 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 concecional under the concession agreement for up-gradation on build, operate and transfer basis and therefore, the license shall honor the same".	NA	
9	Who will supervise the work of laying of UG Electrical Cable/HDPE Pipo		
	(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 Kamla Nagar Agra	
	(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 Kamla Nagar	
		Agra	

Site Engineer
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/
National Highways Authority of शिक्षेत्र यथा/Sanjay verma
परियोजना कार्यान्ययन इकाई—आगरा
Project Implementation Unit-Agramatical मार्थाजना कार्यान्ययन इकाई—आगरा
Project Implementation Unit-Agramatical मार्थाजना कार्यान्ययन इकाई—आगरा
Project Implementation Unit-Agramatical Implementation Unit-Agram

अधिशासी अमियन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा

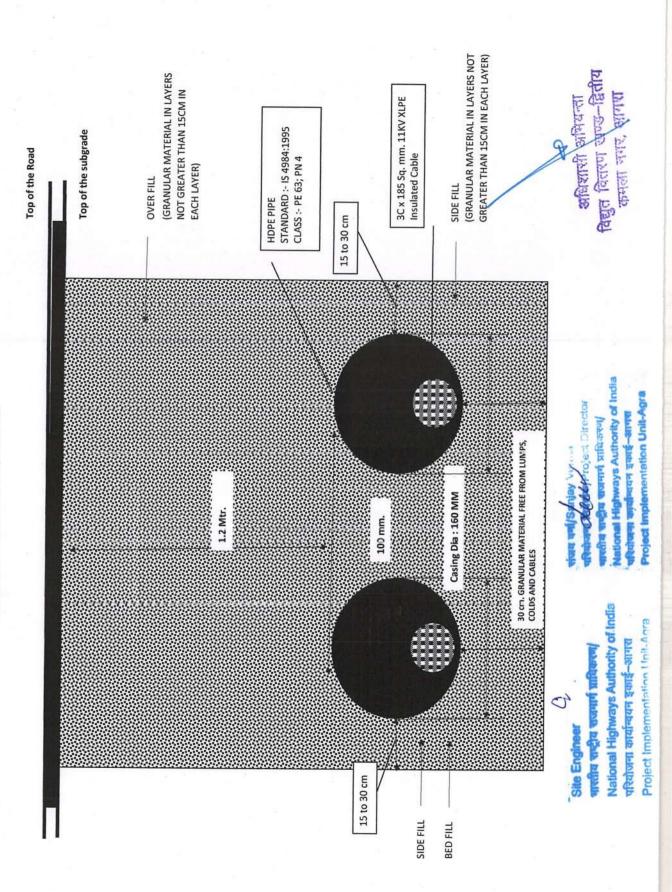
S.No.	Item	Information/Status	Remarks
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	L&T Construction, Mr. G.G Raju (+98272074085) Project Manager Feeder Separation Project, Agra Zone (Agra District)	,
12	A certificate from Project 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 , ✓	

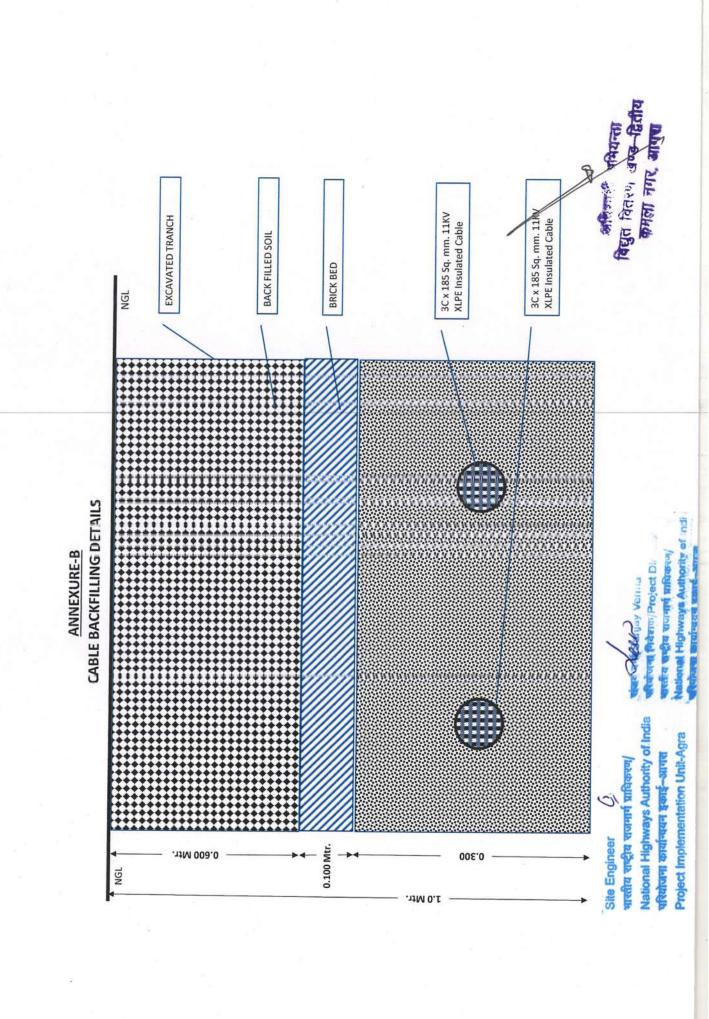
[Name, Designation and signature of the aut of the followentary of familiant]

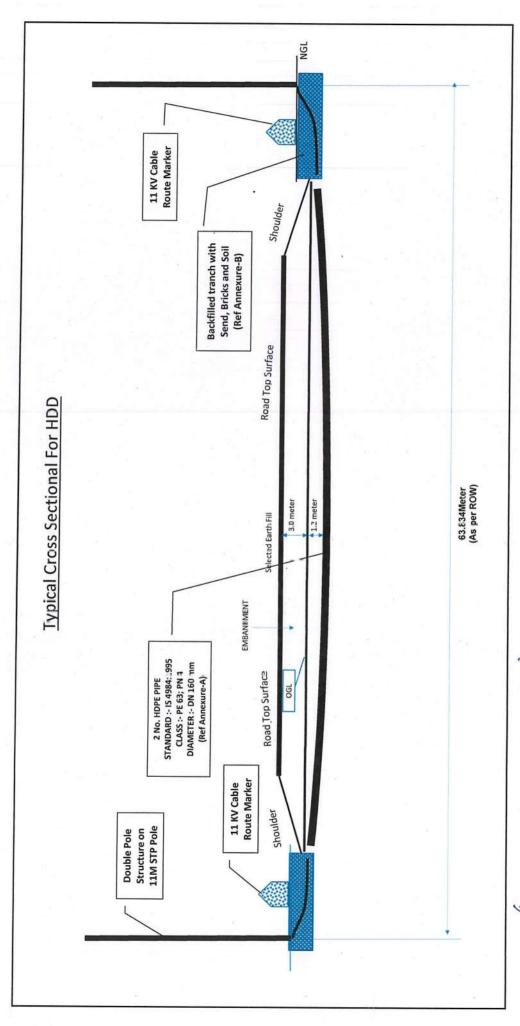
[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

National Highways Authority of India परियोजना कार्यान्वयन इकाई–आगरा Project Implementation Unit-Agra

ANNEXURE-A CASING PIPE AND CABLE DETAILS



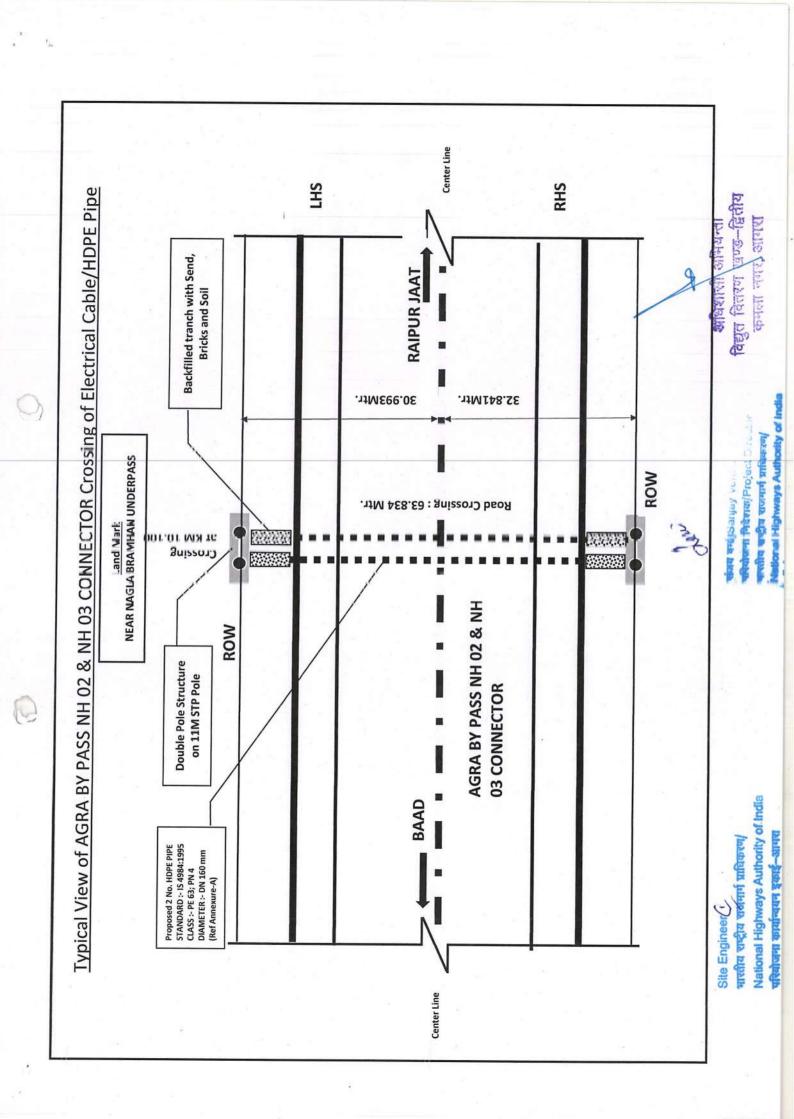




क्रिया वितरण जान्यता क्रियं निर्मात

Site Engineer
आरदीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्यन इकाई-आगर Project Implementation Unit-Agra

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project immis-mentation



CHECK - LIST

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

Relevant Circulars

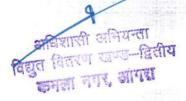
1) Ministry Circular No.RW/NH-33044/29/2015 S&R(R) dated 22.11.2016

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at AGRA BY PASS NH 02 & NH 03 CONNECTOR

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Agra Zone (Agra District) Project	± 1.3-4.
1.1	Name and Address of the Applicant/Agency	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Kamla Nagar, Basant Vihar Kaver Kunj Kamla Nagar Uttar Pradesh	
1.2	National Highway Number	AGRA BY PASS NH 02 & NH 03 CONNECTO	R
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 15.400 (AGRA BY PASS NH 02 & NH 03 CONNECTOR)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 15.400 (AGRA BY PASS NH 02 & NH 03 CONNECTOR)	
1.6	Length in Meters		19/11
1.7	Width of available ROW	(57.454 Mtr. x 2 Run) x 1 Nos. = 114.908 Mtrs.	
	(a) Left side from center line to tower towards increasing chainage/Km direction (b) Right side from center line to tower increasing chainage/Km direction	34.021 Mtr. From center of road (As per drawing attached) 23.433 Mtr. From center of road (As per drawing attached)	odina ka
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	100
	(a) Left side from center line towards increasing chainage/Km direction	34.021 Mtr. From center of road (As per drawing attached)	BIFFE
	(b) Right side from center line towards increasing chainage/Km direction	23.433 Mtr. From center of road (As per drawing attached)	4
1.9	Proposal to acquire land	No	5115
#10 to 5	(a) Loft gido from genter line	NA .	
APPRHEN	(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	
Children There	If not then where to lay the cable	Crossing at main carriageway (Below Road)	The state of
Entra S	Dotaile of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 Lanes)	4 Lane	
Interest to	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
	Service road existing or not	YES- No	EGE ST
PERE!	If yes then which side (a) Left side from center line	1-Lane	
	(b) Right side from Center line	1 Lane	
	Proposed Service road	NA	
	(a) Left side from center line	NA	
Howard	(b) Right side from center line	NA	

Side Engineer अस्त्रीय सद्भीय सजनार्ग प्राधिकस्प/ National Highways Authority of India प्रियोजना कार्यान्वयन इकाई-आयरा Project Implementation Unit-Agra

पांजय वर्ग/Sanjay Verma
परियोजना निवेशक/Project Director
बारतीय पांजीय राजमार्ग आधिकरण/
National Highways Authority of India
परियोजना कार्यान्ययन इकाई-आगरा
Project Implementation Unit-Agra
Page 1 of 1



S.No.	Item	Information/Status	Remarks
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.		
	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	
1	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	
- 1	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 lop 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	
		By HDD Method Drawing for methodology enclosed	
1) 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	
	Document / drawing enclosed with the proposal	Drawing Enclosed	

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Site Engineer भारतीय राष्ट्रीय राजनार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई—आगरा Project Implementation Unit-Agra Jes

परियोजना निवेशक/Project Director भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्ययन इकाई-आगरा Project Implementation Unit-Agra Executive Engineer
Electricity Distribution Division-II
B-672, Kamla Nagar, Agra

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 confldor only where pavement is neitner 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 grandor to yink a firm purface without audden 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	[4]
1 5 6	n) The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tampering and controlled addition of moisture to 25% 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	
5	e) The road crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the rench	NA	
f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	NA	
E	expense of agency owning the utility line	NA	
2.4.2 H	Horizontal Directional Drilling (HDD) method.	YES	

Site Engriser भारतीय पादीय राजमार्ग जिक्करण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra

संजय वन जिल्लाक/Pio.ac. वरियोजना निवेशक/Pio.ac. वारतीय पान्दीय राजमार्ग प्राप्तिकरण National Highways Authority of India वरियोजना कार्या Page 3 of 7 Unit-Agra Project Implementation Unit-Agra Executive Engineer
Electricity Distribution Division-II
B-672, Kamla Nagar, Agra

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	

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Site Engineer भारतीय चान्द्रीय चाजमार्ग प्राधिकर National Highways Authority of परियोजना कार्यान्वयन इकाई–आगरा Project Implementation Unit-Agra National Highways Authority of India परियोजना कार्यान्यम इकाई-आगरा Project Implementation Unit-Agra

S.No.	Item	Information/Status	Remarks
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 NationI 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	Indertaking 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 Administriation.	YES, Enclosed	
5 11 6 t	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work for improvement or repairs to the road it will be carried but as desired by the NI IAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	YES, Envloyed	
5.12 iii	Certificate from the applicant in the following format) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. i) 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 levelopment.	YES, Enclosed	

Site Engineer
भारतीय राष्ट्रीय राजनार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्तस्य इकाई-आगरा
Project Implementation Unit-Agra

संजय अनी/Sanjay Verma
परियोजना निर्वेशक/Project Director
सारतीय राष्ट्रीय राजनार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्वयन इकाई-आगरा
Project Implementation Unit-Agra

Executive Engineer
Electricity Distribution Division-II
B-672, Kamla Nagar, Agra

S.No.	ltem	Information/Status	Remark
6	Who will sign the agreement on behalf	Chief Engineer, Dakshinanchal Vidyut Vitran	
	of Laying of UG electrical cable/HDPE Pipe	Nigam Limited, Agra Zone 2	1
	Power of Attorney to sign the	YES	
	agreement is available or not		
7	The Project Director, will submit the following	-	
	Certificates.	9	
7.4	Certificate for confirming of all standard condition		
7.1	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	
	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 Kamla Nagar Agra	
	(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.	18	
(a) On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 Kamla Nagar Agra	
-	b) On bealf of NHAI	Suervision Consultant	

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Site Engineer
भारतीय राष्ट्रीय राजनार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्वयन असमारा
Project Implementation Unit-Agra

Join

संजय वर्मा/Sanjay Verna परियोजना निवेशक/Project Circuit भारतीय पाष्ट्रीय राजनार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्ययन इकाई-आगरा Project implementation Unit-Agra



S.No.	Item	Information/Status	Remarks
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	L&T Construction, Mr. G.G Raju (+98272074085) Project Manager Feeder Separation Project, Agra Zone (Agra 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]

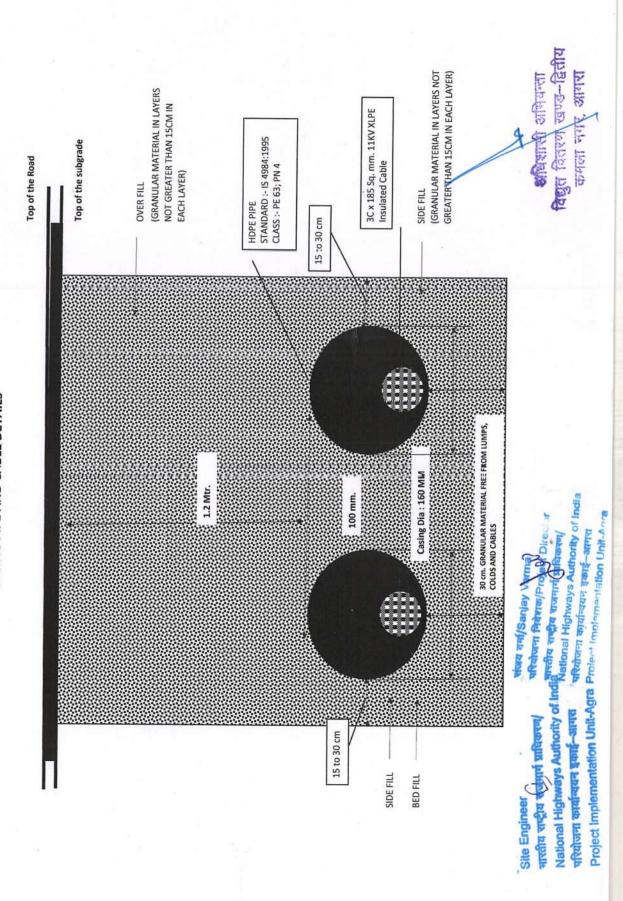
Executive Engineer
Electricity Distribution Division-II
B-672, Kanna Negar, Agra

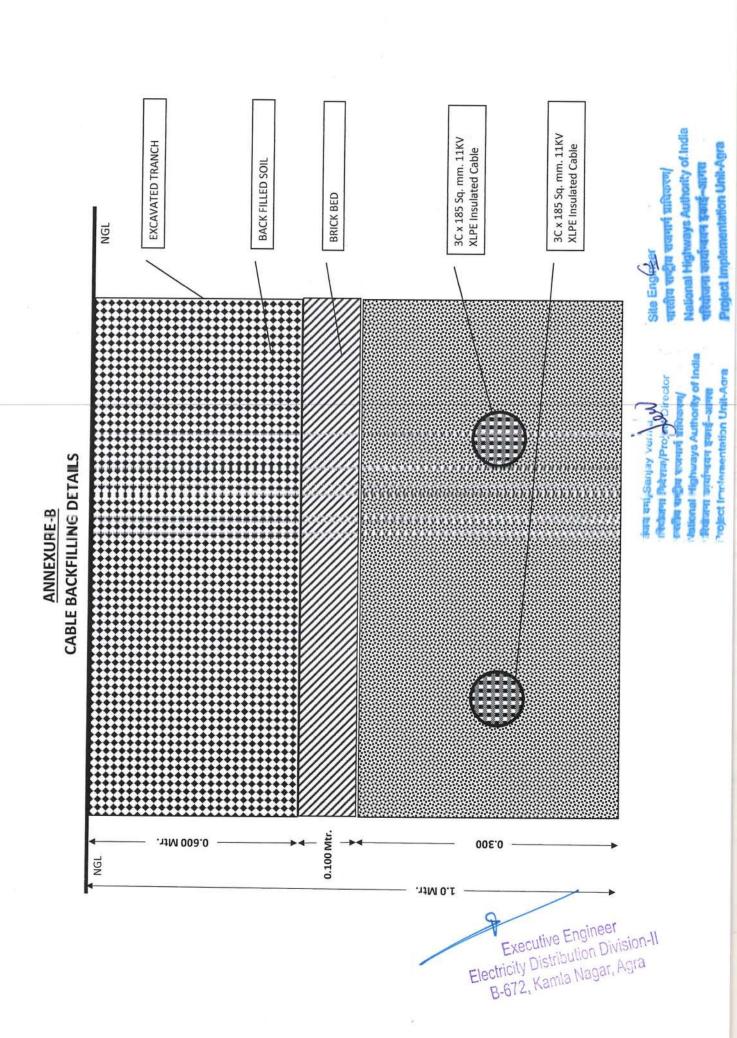
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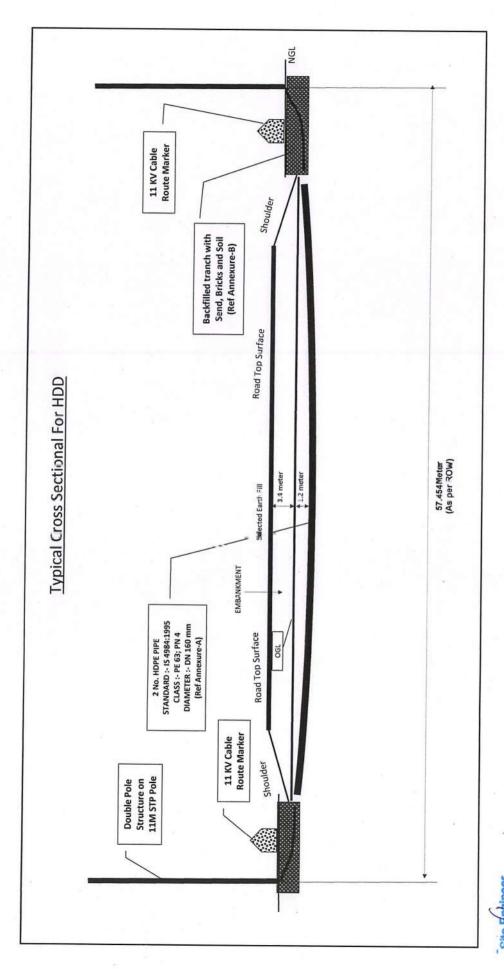
[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

परियोजना निवेशका Project Enactor भारतीय राष्ट्रीय राजनार्ग प्राधिकरण National Highways Authority of India परियोजना कार्यान्ययम प्रकार्ड-आगरा Project Implementation Unit-Agra

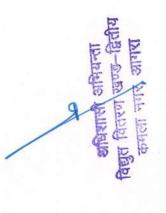
ANNEXURE-A
CASING PIPE AND CABLE DETAILS



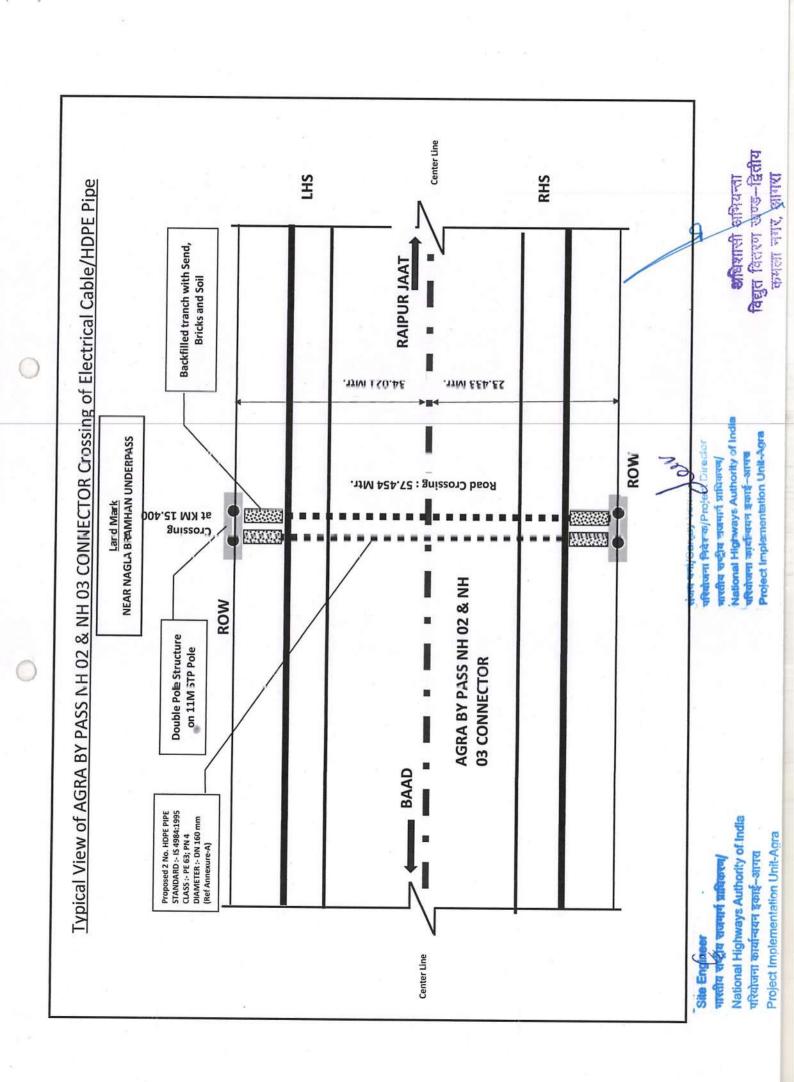




viora बर्गा/Sarjay Verma परियोधना निवेशक/Project Director भारतीय चन्द्रीय राजनार्ग प्राप्तिकरण/ National Highways Authority of India परियोधना कार्यानयन इकाई-आगय Project Implementation Unit-Aora



Site Engineer भारतीय राष्ट्रीय राजनार्गं प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आनरा Project Implementation Unit-Agra



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 AGRA BYPASS NH 02 & NH 03 CONNECTOR land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Agra Zone (Agra District) Project	
1.1	Name and Address of the Applicant/Agency	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Kamla Nagar, Basant Vihar Kaver Kunj Kamla Nagar Uttar Pradesh	
1.2	National Highway Number	AGRA BYPASS NH 02 & NH 03 CONNECTOR	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 16.850 (AGRA BYPASS NH 02 & NH 03 CONNECTOR)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 16.850 (AGRA BYPASS NH 02 & NH 03 CONNECTOR)	
1.6	Length in Meters	(60.727 Mtr. x 2 Run)x1 = 121,454 Mtrs.	
1.7	Width of available ROW	A service of the serv	
Version of the second	(a) Left side from center line to tower towards	24.715 Mtr From center of road (As per	
	increasing chainage/Km direction	drawing attached)	
	(b) Right side from center line to tower increasing	36 012 Mtr From center of road (As per	
	chainage/Km direction	drawing attached)	
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards	24.715 Mtr From center of road (As per	
	increasing chainage/Km direction	drawing attached)	
	(b) Right side from center line towards	36.012 Mtr From center of road (As per	
	increasing chainage/Km direction	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	
	Number of existing lanes (2/4/6/8 Lanes)	4 Lane	
	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
	Service road existing or not	No	
	If yes then which side		
	(a) Left side from center line	1-Lane	
	(b) Right side from Center line	1-Lane	

Site Engineer

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Sensitivity: LNL Construction Internal Use
National Highways Authority of India

र क्यार्यन्ययन इकाई-आगच mentation Unit-Agra परियोजना निवेशक/Project Director
परियोजना निवेशक/Project Director
परियोजना निवेशक/Project Director
परियोजना कार्यान्य प्रकार्थ-आगर्य
परियोजना कार्यान्यम प्रकार्थ-आगर्य
Project Implementation Unit-विद्युत वितरण खण्ड-द्वितीय

S.No.	ltem	Information/Status	Remark
1.15	Proposed Service road	NA	1000
	(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	
	Whether existing drainage structure allowed to carry utility pipeline.	NA No	
	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, tho 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 outs and too 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	
		Drawing Enclosed	

Site Engineer

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा

Project Implementation Unit-Agra

परियोजना निवेशक/Project Director
भारतीय राष्ट्रीय राजनार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्ययन इकाई-आगरा
Project Implementation Unit-Agra अधिशासी अभियन्ता
विद्युत वितरण खण्ड-द्वितीय
कमला नगर, आगरा

S.No.	Item	Information/Status	Remark
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 carriagewa 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.		
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 .	
	(h) 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 shangs in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by replaced by selected material		
	(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	
	Horizontal Directional Drilling (HDD) method.	YES	

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra

f/Sanjay Verma परियोज धनिदेशक/Project Director भारतीय प्राच्याय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा

अधिशासी अभियन्ता Project Implementation Unit-Agrafaयुत वितरण खण्ड-द्वितीय कमला नगर, आगरा

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	

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Site Engineer

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/

National Highways Authority of Indianing वमां/Sanjay vening परियोजना कार्यान्वयन इकाई—आगरा परियोजना निदेशक/Project Director Project Implementation Unit-Agra

National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra

अधिशासी अभियन्ता विद्युत वितरण खण्ड-द्वितीय क्रमला नगर, आगरा

S.No.	ltem .	Information/Status	Remarks
y ^{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	
9 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 NationI 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 Administration.	YES, Enclosed	
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 i	Certificate from the applicant in the following format) Laying of UG Cable/HDPE Pipe will not have any deleterious effects on any of the bridge components and roadway safety for traffic. i) 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	

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Site Engineer भारतीय राष्ट्रीय राज्या National High परियोजना कार्या

Project Implementary | Lunt-Agra

परिभूषा निवेशक/Project Adapter भारतीय सन्द्रीय राजनार्ग प्राधिकरण/
National Highways Authority of India
परियोजना कार्यान्ययन इकाई—आगरा
Project Implementation Unit-Agra

अधिशासी अभियन्ता विश्वत दितरण खण्ड-द्वितीय कमला नगर, आगरा

IV.	Item	Information/Status	Remark
0 0	Vho willl sign the agreement on behalf f Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Agra Zone 2	
	ower of Attorney to sign the greement is available or not	YES	
	the Project Director, will submit the following certificates.		
7.1 is	ertificate for confirming of all standard condition sued vide Ministry Circular No. RW/NH-3044/29/2015/S&R (R) dated 22.11.2016.		
7.2 Ci (ii) (ac of (iii) (ac thi ba	ertificate from PD in the following ormat "It is certified that any other location of the Water upply pipe line would be extremely difficult and nreasonable costly and the installation of later Supply pipe line within ROW will not diversely affect the design, statbility & traffic safety the highway nor the likely future improvement. uch as widening of the carriageway, easing of urve etc". To ro 6-lanning Where feasibility is available "I do certify that ere will be no hindrance to proposed six-lanning ased on the feasibility report considering oposed structures at the said location In case feasibility report is not available do certify that sufficient ROW is available site for accommodation proposed six-lanning"		
8 ca the co op	NH section proposed to be taken up by NHAI on DT basis — s cause in para 9 to be inserted in a agreement. "The permitted Highway on nich license has been granted as a right to lay ble / duct, has also been granted as a right of a way to be concessional under the nicession agreement for up-gradation on build, erate and transfer basis and therefore, the ense shall honor the same".	NA	
	ho will supervise the work of laying of UG ectrical Cable/HDPE Pipe		
(a)	On behalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 Kamla Nagar Agra	
	On bealf of NHAI	Suervision Consultant	
	no will ensure that the defects in road portion er laying of over Head electrical line are	*	
10 afte	rrected and if not corrected then what action I be taken.		
10 afte	rrected and if not corrected then what action	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 Kamla Nagar Agra	

Site birgineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India पारवाजना निवेशक/Project Director परियोजना कार्यान्वयन इकाई-आगरा **Project Implementation Unit-Agra**

वर्गा/Sanjay Verma भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India अधिशासी अभियन्ता परियोजना कार्याच्या दकार्य-आगरा Project Implementation Unit-Agraiged वितरण अण्ड-द्वितीय National Highways Authority of India

कमला नगर, आगरा

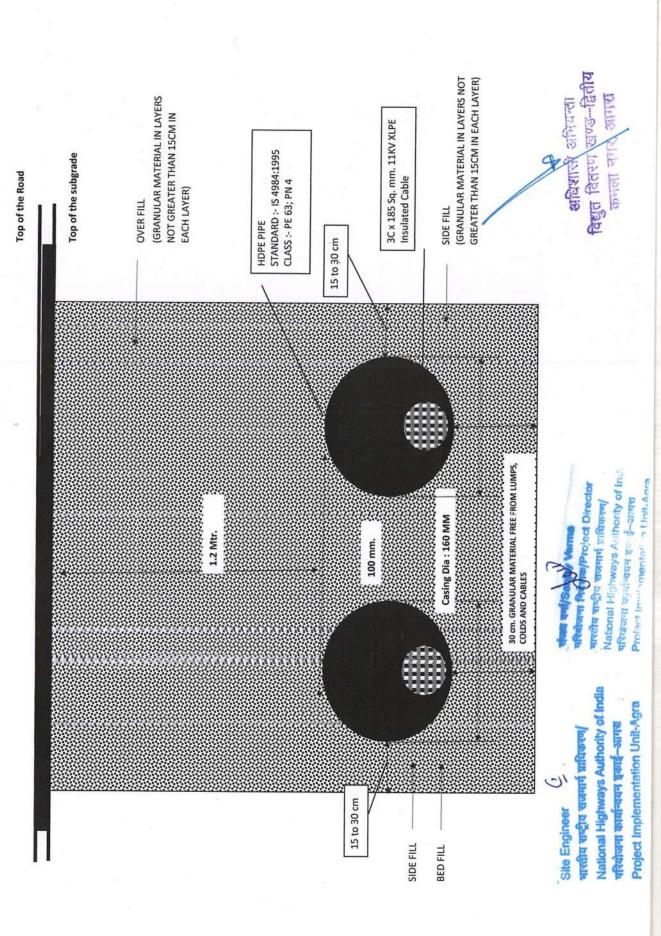
S.No.	Item	Information/Status	Remarks
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	L&T Construction, Mr. G.G Raju (+98272074085) Project Manager Feeder Separation Project, Agra Zone (Agra District)	
12	A certificate from Project 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	

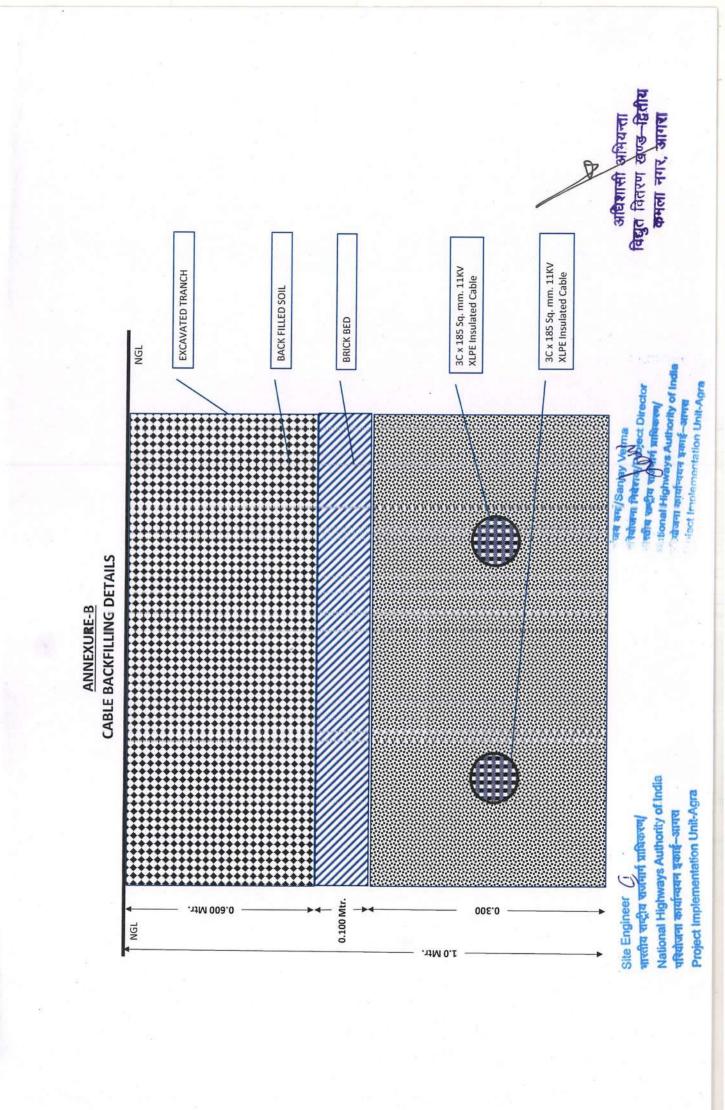
[Name, Designation and signature of the authorised representative of Applicant]

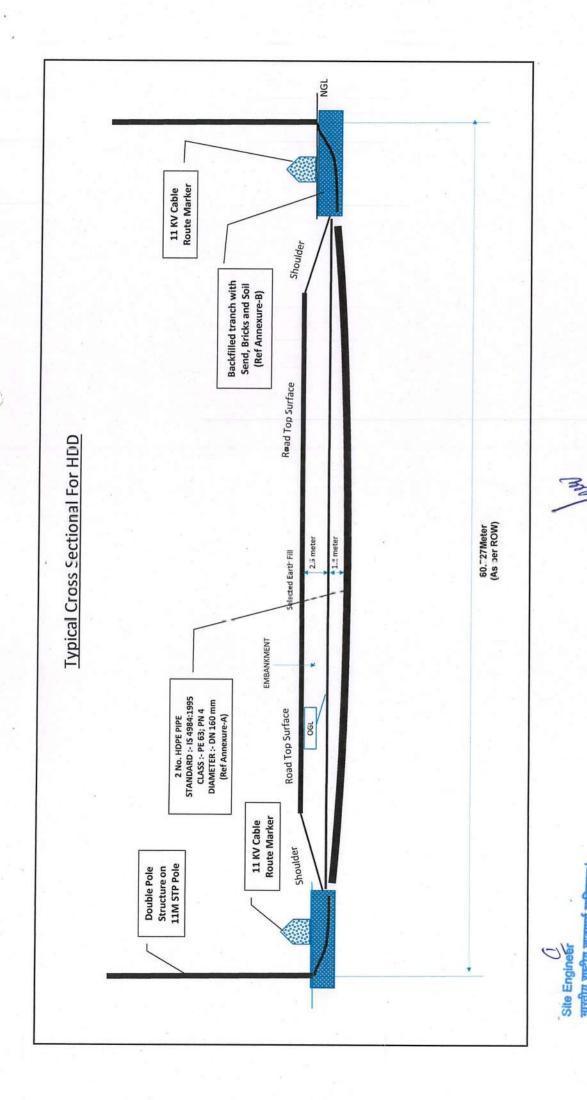
अधिश्रासी अभियन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा [Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

National Highways Authority of India परियोजना कार्यान्ययन इकाई-आगरा Project Implementation Unit-Agra

CASING PIPE AND CABLE DETAILS







0

Religion मिथेशक/Project Directo परियोजना कार्यान्वयन इकाई-आगषा गरतीय चान्द्रीय राजमार्ग प्राधिकरून/

National Highways Authority of India

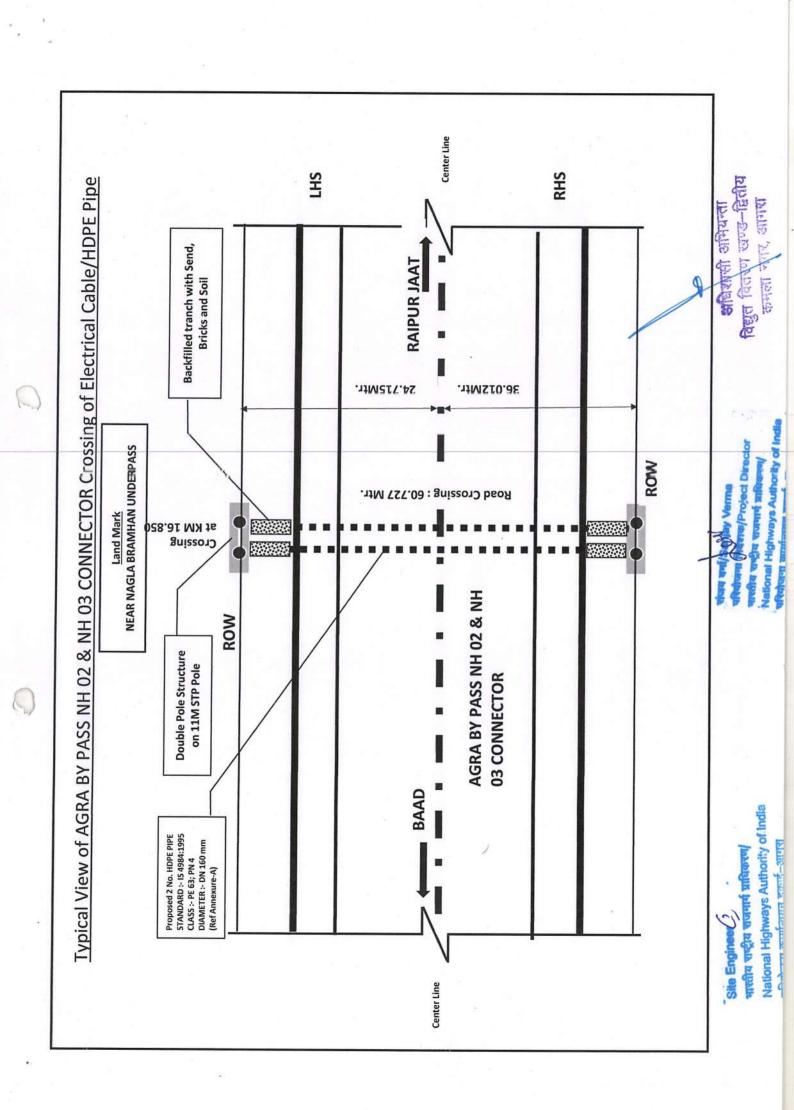
भारतीय राष्ट्रीय राजमार्गं प्राधिकरण

परियोजना कार्यान्ययन इकाई-आगए

Project Implementation Unit-Agra

National Highways Authority of India Project Implementation Unit-Agra

विद्युत वितरण विजय-दिर क्रमला नगते आगरा अधिशासी अभियन्ता





CHECK - LIST

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

Relevant Circulars

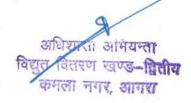
1) Ministry Circular No.RW/NH-33044/29/2015 S&R(R) dated 22.11.2016

Check list for getting approvel for laying of Electrical Cables/HDPE Pipe at AGRA BYPASS NH 02 & NH 03 CONNECTOR land.

S.No.	Item	Information/Status	Remarks
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Agra Zone (Agra District) Project	
1.1	Name and Address of the Applicant/Agency	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Kamla Nagar, Basant Vihar Kaver Kunj Kamla Nagar Uttar Pradesh	
1.2	National Highway Number	AGRA BYPASS NH 02 & NH 03 CONNECTOR	
1.3	State	Uttar Pradesh	
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 17.900 (AGRA BYPA33 NH 02 & NH 03 CONNECTOR)	
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 17.900 (AGRA BYPASS NH 02 & NH 03 CONNECTOR)	
1.6	Length in Meters	(59.887 Mtr. x 2 Run) x 1 = 119.774 Mtrs	
1.7	Width of available ROW		
	(a) Left side from center line to tower towards increasing chainage/Km direction (b) Right side from center line to tower increasing chainage/Km direction	24.042 Mtr From center of road (As per drawing attached) 35.845 Mtr From center of road (As per drawing attached)	
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe	
	(a) Left side from center line towards increasing chainage/Km direction	24.042 Mtr From center of road (As per drawing attached)	
	(b) Right side from center line towards increasing chainage/Km direction	35.845 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)	4 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	YES NO	
	If yes then which side (a) Left side from center line	1 Lane	
	(b) Right side from Center line	1 Lane	
1.15	Proposed Service road	NA	0
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	

Site Engineer
बारतीय राष्ट्रीय राजमार्ग प्राधिकरण/
National Highways Authority of India
बरियोजना कार्यान्ययन इकाई-आगरा
Project Implementation Unit-Agra

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S.No.	Item	Information/Status	Remarks
	(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.		
	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 too of clope 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	

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India
परियोजना कार्यान्वयन इकाई—आगरा परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra

ब वर्गा/Sanjay Verma जारतीय राष्ट्रीय राजनार्ग प्राधिकरण National Highways Authority of India भक्षणावा नाष्ट्राभ्यभुड Authority of Indi परियोजना कार्यान्ययन इकाई-आगरा Project Implementation Unit-Agra

अविशासी अभियन्ता विद्युत वितरण खण्ड द्वितीय कमला नगर, आगरा

S.No.	ltem	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 carriagewa; 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.		
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, tree 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	1
2.4.2	Horizontal Directional Drilling (HDD) method.	YES	

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra

वर्गा/Sanjay Verma जना निवंशक/Project Director गरतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India Project Implementation Unit-Agra अद्भिशासी अभियन्ता
विद्युत वितरण खण्ड-द्वितीय कमजा नगर, आगरा

Page 3 of 7

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	

Site Engineer

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/

National Highways Authority of India

परियोजना कार्यान्वयन इकाई-आगरा

Project Implementation Unit-Adia

भारतीय बान्द्रीय शातमार्थ प्राधिकरण/ National Highways Authority of India परिकोणना कार्याच्यान बुकाई-आगरा

Project Implementation Unit-Agra

अधिकासी अभियन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा

S.No.	Item	Information/Status	Remarks
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, unler controller of Explosives. Petroleum and Explosive Safety organisation UTI Industry Safety Directorate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administration.	YES, Enclosed	
5.11	If the MoRTH/NHAI considers it necessary in future to move the utility line for any work for 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	

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई—आगरा Project Implementation Unit-Agra

सजय वर्गा/Sanjay Vernia परियोजना निर्देशक/Project ज्यान भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्ययन इकाई—आगरा Project Implementation Unit-Agra

अधिआसी अभियन्ता विद्युत वितरण खण्ड—द्वितीय कमला नगर, आगरा

S.No.	Item	Information/Status	Remark
6	Who will sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Agra Zone 2	
	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 a sause in para 0 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, upgrade and transfer basis and therefore, the license shall honor the same".	NA	
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 Kamla Nagar Agra	
	(b) On bealf of NHAI	Quervision 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 Kamla Nagar Agra	
	b) On bealf of NHAI	Suervision Consultant	10 to

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई–आयरा Project Implementation Unit-Agra

संजय कि/Sanjay Verna परियोजना निदेशक/Project Disector भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्ययन इकाई—आगस Project Implementation Unit-Agra

अविशासी अमियन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा

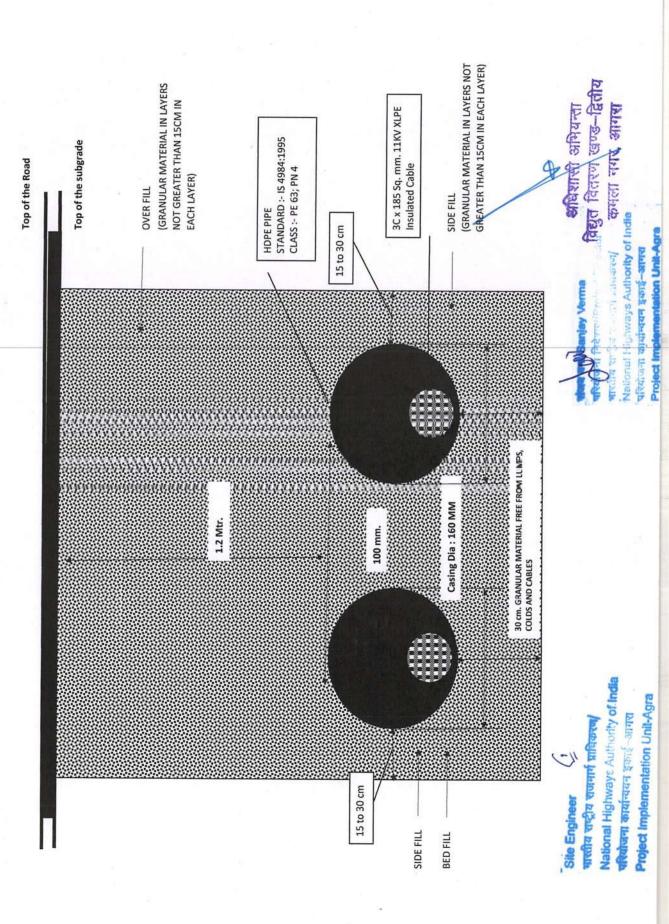
S.No.	Item	Information/Status	Remarks
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	L&T Construction, Mr. G.G Raju (+98272074085) Project Manager Feeder Separation Project, Agra Zone (Agra District)	
12	A certificate from Project 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 .	

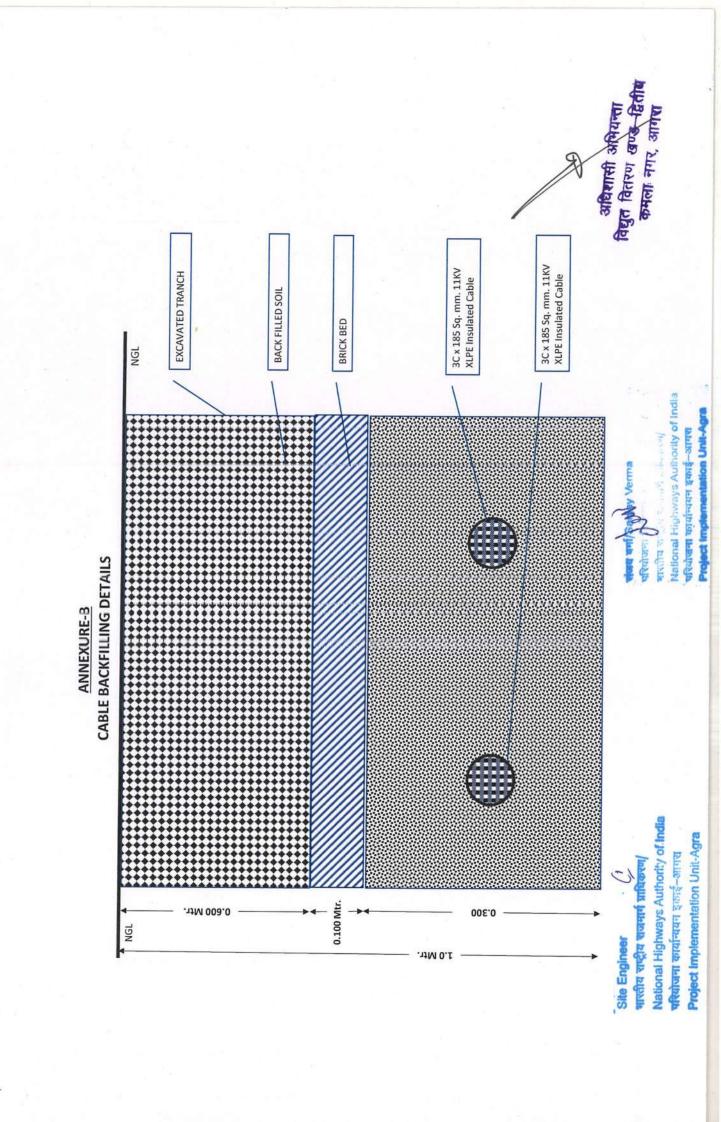
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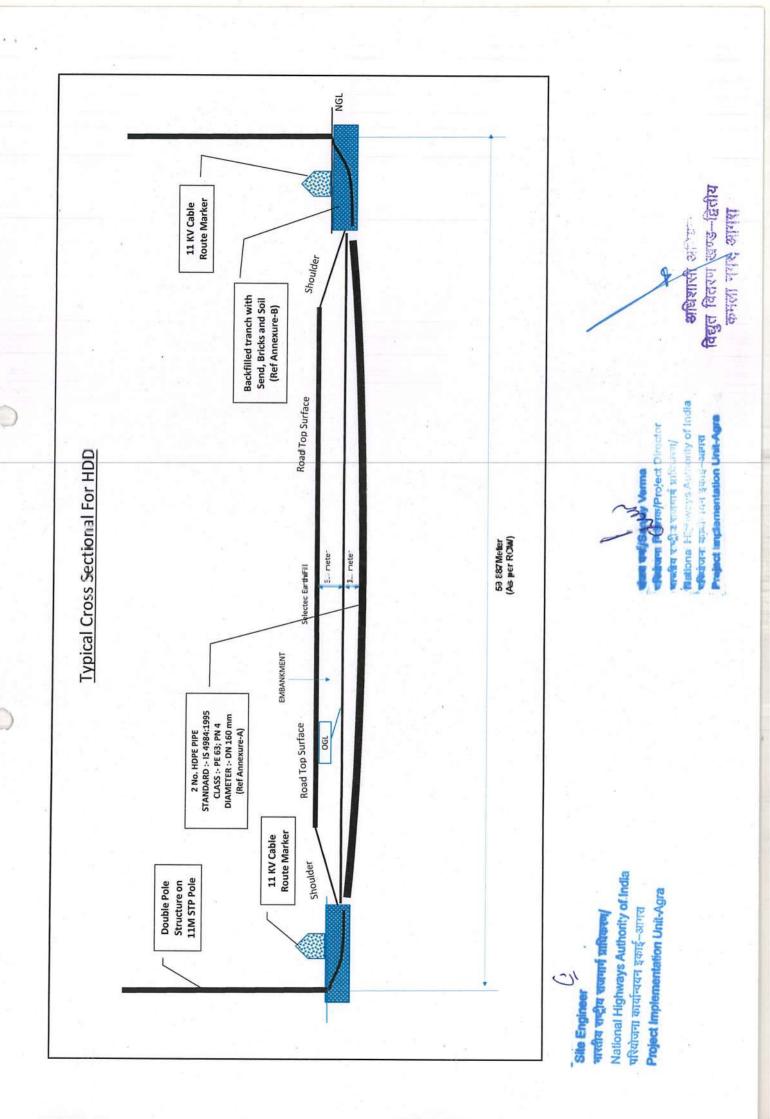
[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

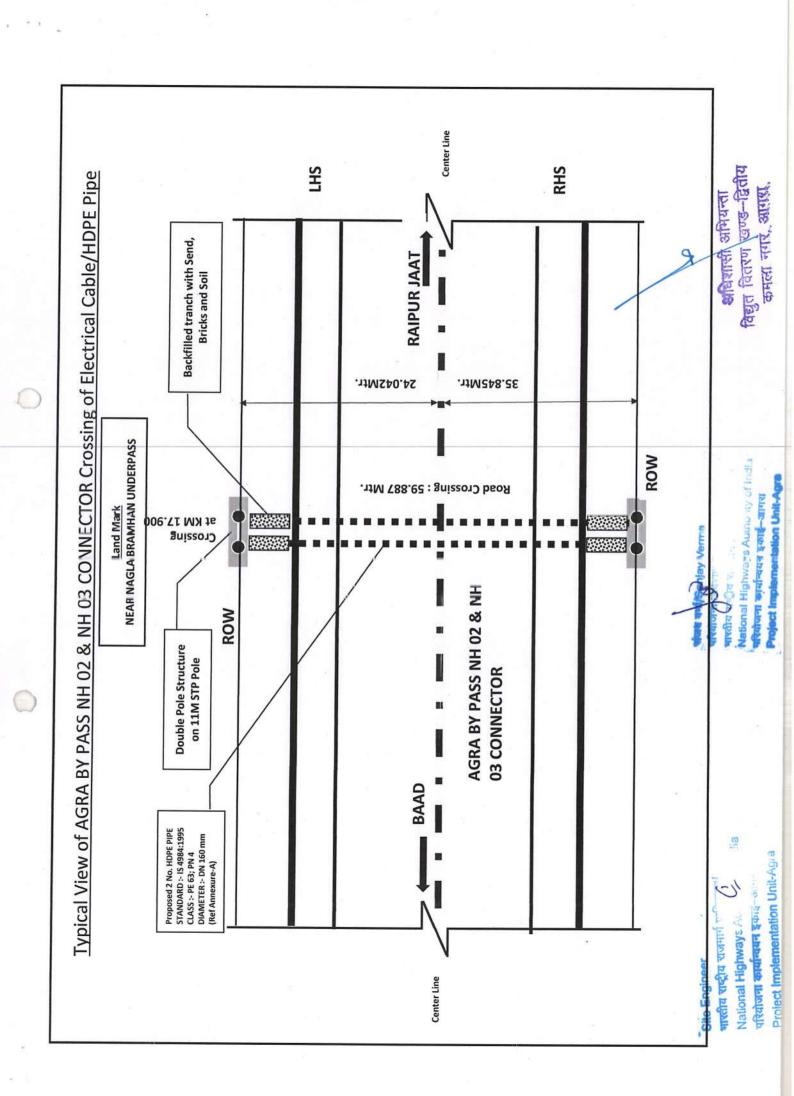
परियोजना निवेशक/Project Director भारतीय राष्ट्रीय राजनार्थ प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्ययम इकाई—आगरा Project Implementation Unit-Agra

ANNEXURE-A CASING PIPE AND CABLE CETAILS











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 AGRA BYPASS NH 02 & NH 03 CONNECTOR land

S.No.	Item	Information/Status	Remarks
		Work under New 11 KV Feeder for Separation of	
1	General Information	Agriculture Consumer and Associated work Agra Zone (Agra District) Project	
		Executive Engineer, Dakshinanchal Vidyut Vitran	
1.1	Name and Address of the Applicant/Agency	Nigam Limited, Kamla Nagar, Basant Vihar Kaveri	
	Traine and Address of the Applicationgency	Kunj Kamla Nagar Uttar Pradesh	
1.2	National Highway Number	AGRA BYPASS NH 02 & NH 03 CONNECTOR	
1.3	State	Uttar Pradesh	
1.0	Otate	Road crossing of UG Electrical Cable/HDPE Pipe	
1.4	Location	(Two run) at Km. 25.500 (AGRA BYPASS NH 02 &	
1.1	Location	NH 03 CONNECTOR)	
		Road crossing of UG Electrical Cable/HDPE Pipe	
1.5	(Chainage in Km)	(Two run) at Km. 25.500 (AGRA BYPASS NH 02 &	
1.5	(Ollallage III Kill)	NH 03 CONNECTOR)	
1.6	Length in Meters	(61.106 Mtr. x 2 Run) x 1 Nos. = 122.212 Mtrs.	
1.7	Width of available ROW	(01.100 Will. X 2 Mull) X 1 MOS 122,212 Wills.	
1.1	(a) Left side from center line to tower towards	28.821 Mtr. From center of road (As per drawing	
	increasing chainage/Km direction		
	(b) Right side from center line to tower increasing	attached) 32.285 Mtr. From center of road (As per drawing	
	chainage/Km direction		
1.8	Proposal to lay the cables	attached)	
1.0	(a) Left side from center line towards	UG Electrical cable / HDPE Pipe 28.821 Mtr. From center of road (As per drawing	
	inorgaging chainage/Km direction	attached)	
	(b) Right side from center line towards	32 285 Mtr. From center of road (As per drawing	
1.9	increasing chainage/Km direction	attached)	
1.9	Proposal to acquire land	No	
	(a) Left side from center line	NA NA	
	(b) Right side from center line	NA	S
1.10	Whether proposal is in the same side where land is	No land acquisition required	
	not to be acquired	0 1 1 1 10 10 10 10	
	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	NA ·	
1.10	proposed route		
1.12	Number of existing lanes (2/4/6/8 Lanes)	4 Lane	
1.13	Proposed Number of lanes (2 lane with paved	NA	
	shoulders/4/6/8 lanes)		
1.14	Service road existing or not	YES-NO	
	If yes then which side	1 Lane	
	(a) Left side from center line		
	(b) Right side from Center line	1 Lane	
1.15	Proposed Service road	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
	Whether proposal to laying UG-Electrical Cable line		
1.16	is after the service road or between the	Crossing at main carriageway (Below Road)	
	service road and main carriageway		
2000	Whether carrying of sewage/gas pipe line has		
1.17	been propsoed on highway Bridges.	NA	
	If Yes, the mention the methodology		

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P * 'mplementation Unit-Agra





S.No.	Item	Information/Status	Remarks
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 proposed 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 propseud 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	6
	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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Jour

अधिश्रासी अभियन्ता विद्युत वितरण खण्ड—द्वितीय कमला नगर, आगरा

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.		
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	NA	
	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	
	expense of agency owning the utility line	NA	/
2.4.2	Horizontal Directional Drilling (HDD) method.	YES	/

C

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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.	Performance Bank Guarantee as per extant norms	
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	

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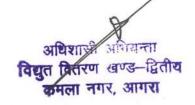
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अप्रिशासी अभियन्ता विद्युत वितरण खण्ड—द्वितीय कमला नगर, आगरा

S.No.		Information/Status	Remarks
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 Directorate State/Central Pollutino Control Board and any other statutory clearence's applicable. before applying to Highway Administration.	YES, Enclosed	
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	
	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	

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S.No.	Item	Information/Status	Remarks
6	Who will sign the agreement on behalf of Laying of UG electrical cable/HDPE Pipe	Chief Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Agra Zone 2	
	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 ROT basis — a 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	
9	Who will supervise the work of laving of UG Flectrical Cahle/HDPF Pipe)
	(a) On bohalf of the Applicant	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, EDD2 Kamla Nagar Agra	
	(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 I imited, FDD2 Kamla Nagar Agra	
	(b) On bealf of NHAI	Suervision Consultant	



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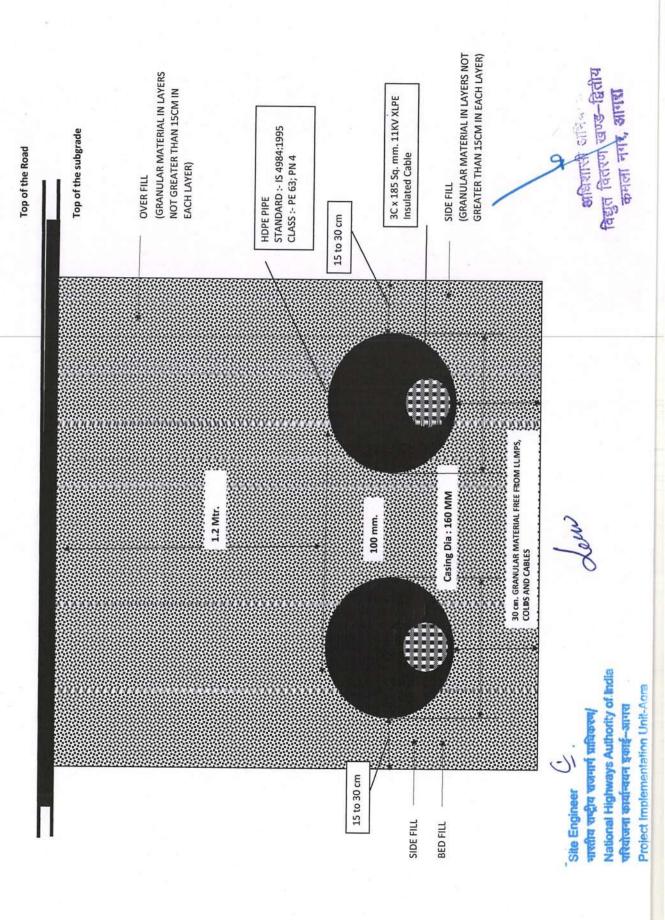


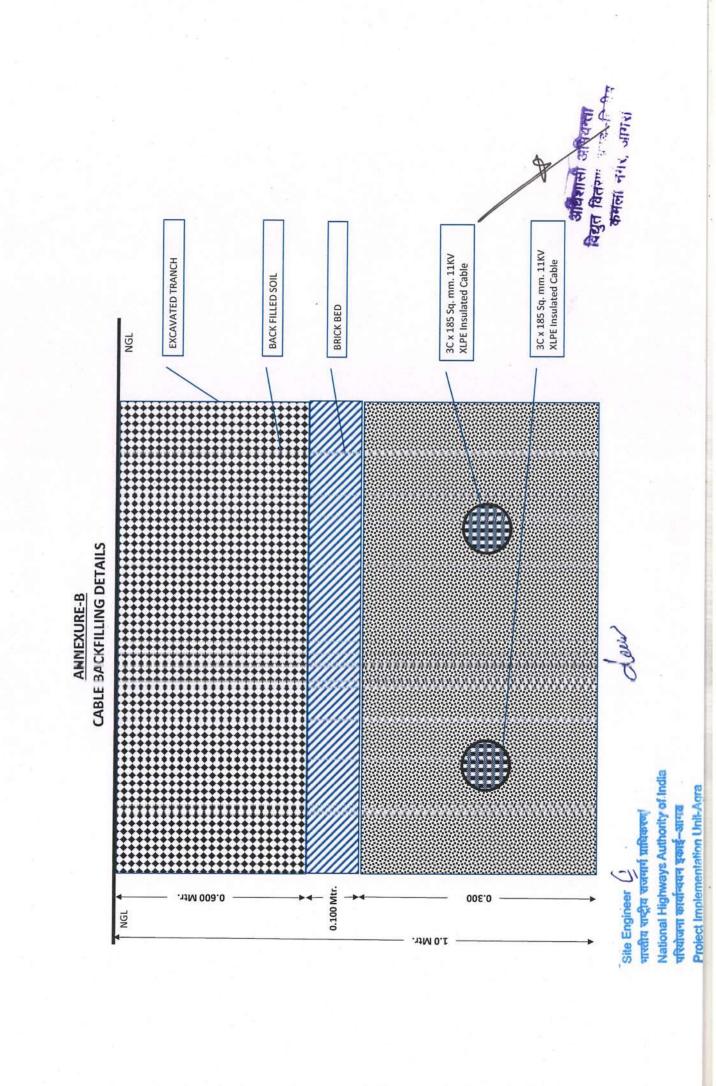
S.No.	Item	Information/Status	Remarks
11	Who will pay the claims for damages done / disruption in working of concessionalre if asked by the concessionalre	L&T Construction, Mr. G.G Raju (+98272074085) Project Manager Feeder Separation Project, Agra Zone (Agra District)	
12	A certificate from Project 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	

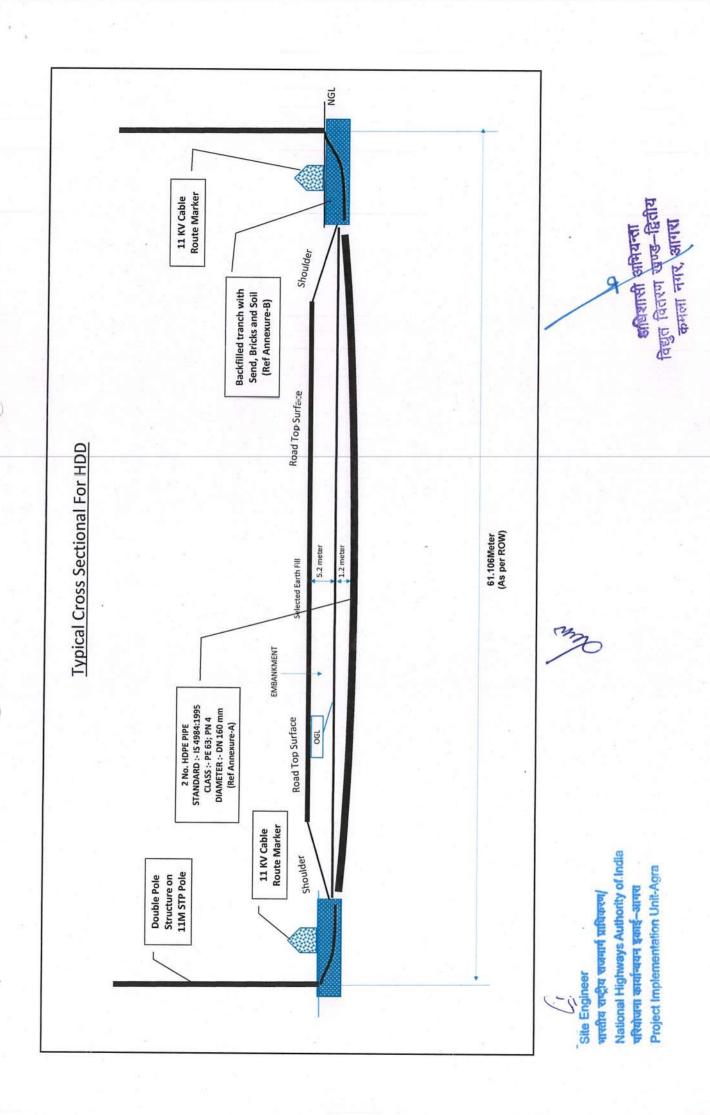
[Name, Designation and signature of the authorised representative of Applicant] विद्युत वितरण खण्ड दिवाय

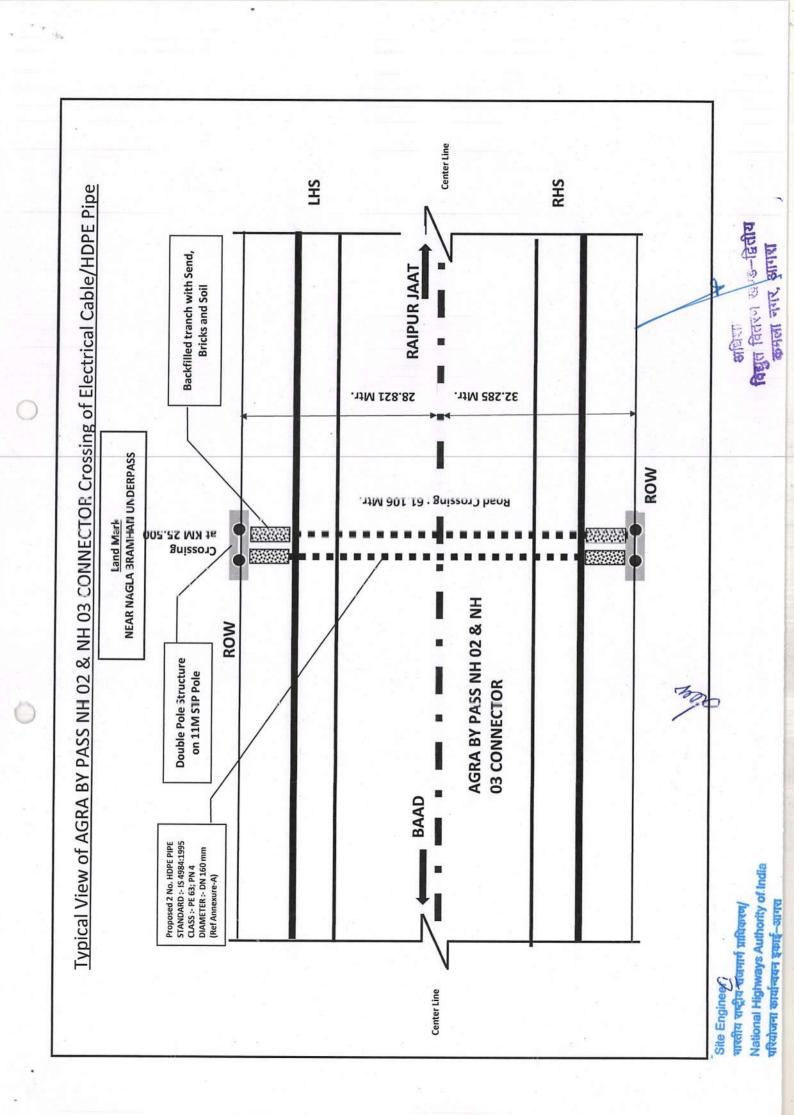
[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA]

CASING PIPE AND CABLE DETAILS









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 AGRA BYPASS NH 02 & NH 03 CONNECTOR land.

S.No.	Item	Item Information/Status		Item Information/Status F		em Information/Status Rem	
1	General Information	Work under New 11 KV Feeder for Separation of Agriculture Consumer and Associated work Agra Zone (Agra District) Project					
1.1	Name and Address of the Applicant/Agency	Executive Engineer, Dakshinanchal Vidyut Vitran Nigam Limited, Kamla Nagar, Basant Vihar Kaver Kunj Kamla Nagar Uttar Pradesh					
1.2	National Highway Number	AGRA BYPASS NH 02 & NH 03 CONNECTOR					
1.3	State	Uttar Pradesh					
1.4	Location	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km. 18.500 (AGRA BYPASS NH 02 & NH 03 CONNECTOR)					
1.5	(Chainage in Km)	Road crossing of UG Electrical Cable/HDPE Pipe (Two run) at Km.18.500 (AGRA BYPASS NH 02 & NH 03 CONNECTOR)					
1.6	Length in Meters	(57.978 Mtr. x 2 Run) x 1 Nos. = 115.956 Mtrs.					
1.7	Width of available ROW						
	(a) Left side from center line to tower towards increasing chainage/Km direction	29.102 Mtr From center of road (As per drawing attached)					
	(b) Right side from center line to tower increasing chainage/Km direction	28.876 Mtr From center of road (As per drawing attached)					
1.8	Proposal to lay the cables	UG Electrical cable / HDPE Pipe					
	(a) Left side from center line towards increasing chainage/Km direction	29.102 Mtr From center of road (As per drawing attached)					
	(b) Right side from center line towards increasing chainage/Km direction	28.876 Mtr From center of road (As per drawing attached)					
1.9	Proposal to acquire land	No					
	(a) Left side from center line	NA					
1.10	(b) Right side from center line Whether proposal is in the same side where land is not to be acquired	NA 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 NA						
1.12	Number of existing lanes (2/4/6/8 Lanes)	4 Lane					
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	ed NA					
1.14	Service road existing or not	No					
	If yes then which side (a) Left side from center line	1-Lane					
	(b) Right side from Center line	1-Lane					

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संजय व Sanjay Verma
वियोजना निवेशक/Project Director
बारतीय राष्ट्रीय राजनार्ग प्राधिकरण/
National Highways Authority of India
वियोजना कार्यान्वयन युकाई—आगरा
Project Implementation Unit-Agra

अनुसाता जानधन्ता विद्युत वितरण खण्ड-द्वितीय कमला नगर, आगरा

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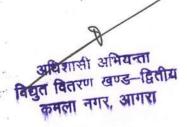
S.No. 1.15	Item	Information/Status	Remark
1.15	Proposed Service road	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to laying UG-Electrical Cable line is afler the service road or between the service road and main carriageway	Crossing at main carriageway (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.		
	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) Finds 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 / towor foundation should be at least 1.2 meter below the surface of the road subject to bring atleast 0.3 m bolow the drain inverts.	YES	
1		By HDD Method Drawing for methodology enclosed	
1	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	
	No. of the state o	Drawing Enclosed	-



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Project Implementation Unit-Agra

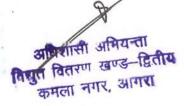
National Highways Authority of India वर्ष (Sanjay Verma परियोजना कार्यान्वयन इकाई–आगरा परियोजना निवेशक/Project Director भारतीय राष्ट्रीय राजनार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra



S.No.	Item	Item Information/Status Remai	
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 carriagewa; 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.		
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	
	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		
((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	
i t c t	d) The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical ampering and controlled addition of moisture to 25% of the Proctor's Density. Overfill shall be compacted to the same density as the material hat had been removed. Consolidation by saturation or ponding will not be permitted.	NA	
s	e) The road crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the rench	NA	=
f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	NA	
e	expense of agency owning the utility line	NA	
42 F	Horizontal Directional Drilling (HDD) method.	YES	20

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National Highways Authority of Indian राष्ट्रीय राजमार्ग प्राधिकरण/
परियोजना कार्यान्वयन इकाई—आगरा Site Engineer परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra

National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra



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 V	
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 V	

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National Highways Authority of India

परियोजना कार्यान्ययन इकाई-आगरा

Project Implementation Unit-Agra

जोजना नर्मा/Sanjay/Verma

परियोजना निदेशक/Project Director

भारतीय राष्ट्रीय राजागर्ग प्राचिकरण/

National Highways Authority of India

Project Implementation Unit-Agra

वितरण खण्ड-द्वितीय कमला नगर, आगरा

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S.No.	Item	Information/Status	Remarks
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. RVV/NH-33044/29/2015/5&R (R) dated 22.11.2016.	YFS, Enclosed	
5.10	Undertaing that the applicant has obtaind various safety clearences from the representative authoritles such as Directorate of Electricity, Chief controller of Explosives. Potroloum and Explosive Safety organisation UTI Industry Safety Directorate State/Central Pollutino Control Board and any other statutory clearence's applicable before applying to Highway Administration.	YES, Enclosed	
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	

Site Engineer

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/

National Highways Authority of परियोजना मिलियां/Project Director परियोजना कार्यान्वयन इकार्र-आगर्य

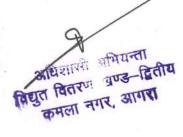
परियोजना कार्यान्वयन इकाई-आगरा National Highways Authority of India
Project Implementation Unit-Agra Project Implementation Unit-Agra



S.No.		momationotatas		Item Information/Status F	
6	Who will sign the agreement on behalf	Chief Engineer, Dakshinanchal Vidyut Vitran			
200	of Laying of UG electrical cable/HDPE Pipe	Nigam Limited, Agra Zone 2			
	Power of Attorney to sign the	YES			
	agreement is available or not	120			
7	The Project Director, will submit the following Certificates.				
	Certificate for confirming of all standard condition				
7.1	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			
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 Kamla Nagar Agra			
	(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 Kamla Nagar Agra			
		Suervision Consultant			

Site Engineer भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India संजय यमां/ Sanjay Verma परियोजना कार्यान्वयन इकाई-आगरा

परियोजना निदेशक/Project Director Project Implementation Unit-Agra मारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्वयन इकाई-आगरा Project Implementation Unit-Agra



S.No.	Item	Information/Status	Remarks
11	disruption in working of concessionalre if asked by the concessionalre	L&T Construction, Mr. G.G Raju (+98272074085) Project Manager Feeder Separation Project, Agra Zone (Agra 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 Appleant]

कुमला नगर, आगरा

[Name, Designation and signature of concerned authority of NHAI/PIU/AGRA] परियोजना निवेशक/Project Director भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India परियोजना कार्यान्ययन इकाई—आगरा Project Implementation Unit-Agra

ANNEKURE-A
CASING PIPE AND CABLE DETAILS

