No. RW/TRI/Utility/59/2019-20
Government of India
Ministry of Road Transport &Highways
Regional Office (Kerala & Lakshadweep Region)
Public Office Building, Opposite to Museum,
Thiruvananthapuram - 695033.
Phone No. 0471-2320879, 2326306; email : rokeralamorth@gmail.com

Dated: 27.02.2020

Invitation of public comments

Sub:- Proposal regarding permission for berm and BT cutting in 3 portion of NH 66 for laying OFC by Reliance Jio Infocomm Ltd from Km.401/200 to 402/620 (Kalavoor Block Jn to colgate Jn), Km.416/130 to 416/500 (Ambalappuzha Block Office Junction) and Km.423/040 to 423/650 (Ambalappuzha North Panchayath to SN Kavala) Under NH Division Alappuzha in the State of Kerala .

The proposal is seeking permission for berm and BT cutting in 3 portion of NH 66 for laying OFC from Km.401/200 to 402/620 (Kalavoor Block Jn to colgate Jn), Km.416/130 to 416/500 (Ambalappuzha Block Office Junction) and Km.423/040 to 423/650 (Ambalappuzha North Panchayath to SN Kavala) on NH-66 in the state of Kerala by Reliance Jio Infocom Ltd submitted to this office vide EE, PWD NH Division, Alappuzha's letter No. D3-54/2016 dated 14.01.2020 in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal for laying of UG Cable along the NH from Km.401/200 to 402/620 (Kalavoor Block Jn to colgate Jn), Km.416/130 to 416/500 (Ambalappuzha Block Office Junction) and Km.423/040 to 423/650 (Ambalappuzha North Panchayath to SN Kavala) on NH-66 as under:

Stretch in Km.	Length (Km.)	ROW (m)	Dist. Of Prop. Underground water Supply pipe line from centre of NH (m).
LHS			
423/040 to 423/650	0.610	30.00	11
NH Crossing			
At Km.423/040	0.030	NA	NA
LHS			
401/200 to 402/620	1.420	30.00	11
NH Crossing			
At Km.401/200	0.030	NA	NA
LHS			
416/130 to 416/500	0.375	30.00	11
NH Crossing			
At Km. 416/500	0.030	NA	NA
At Km416/130	0.030	NA	NA

P.T.O

3. M/s Jio Infocom Limited, Kochi has proposed to lay UG Cable from Km.401/200 to 402/620 (Kalavoor Block Jn to colgate Jn), Km.416/130 to 416/500 (Ambalappuzha Block Office Junction) and Km.423/040 to 423/650 (Ambalappuzha North Panchayath to SN Kavala) by HDD method.

4. M/s Jio Infocom Limited, Kochi has furnished an undertaking that, they will shift the UG Cable if required by MoRTH/NHAI/PWD or any other Highways Authorities within the time frame prescribed by MoRTH/PWD/Highways Authority and also under taking that the restored surface of the road can be maintain as per the composition of the existing crust of the road up to the DLP. Further, it is also mentioned by the M/s Jio Infocom Limited, Kochi that the proposed UG Cable work will not affect the design, stability, traffic safety and future improvement of proposed stretch. In addition, all the undertakings as prescribed in the checklist has been furnished by the M/s Jio Infocom Limited, Kochi.

5. As per the guidelines issued by the Ministry vide letter No.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the application will be made available for public comments and the comments will be invited within 30 days from the date of uploading in the Ministry's web site.

6. In view of above, comments of the public on the above proposal is invited to the below mentioned address:

The Regional Officer
Ministry of Road Transport & Highways,
Public Office Building,
Thiruvananthapuram - 695033.

Encl: As above.

Yours faithfully,

V.V. Sastry

(V.V. Sastry)
Regional Officer cum Highway Administration

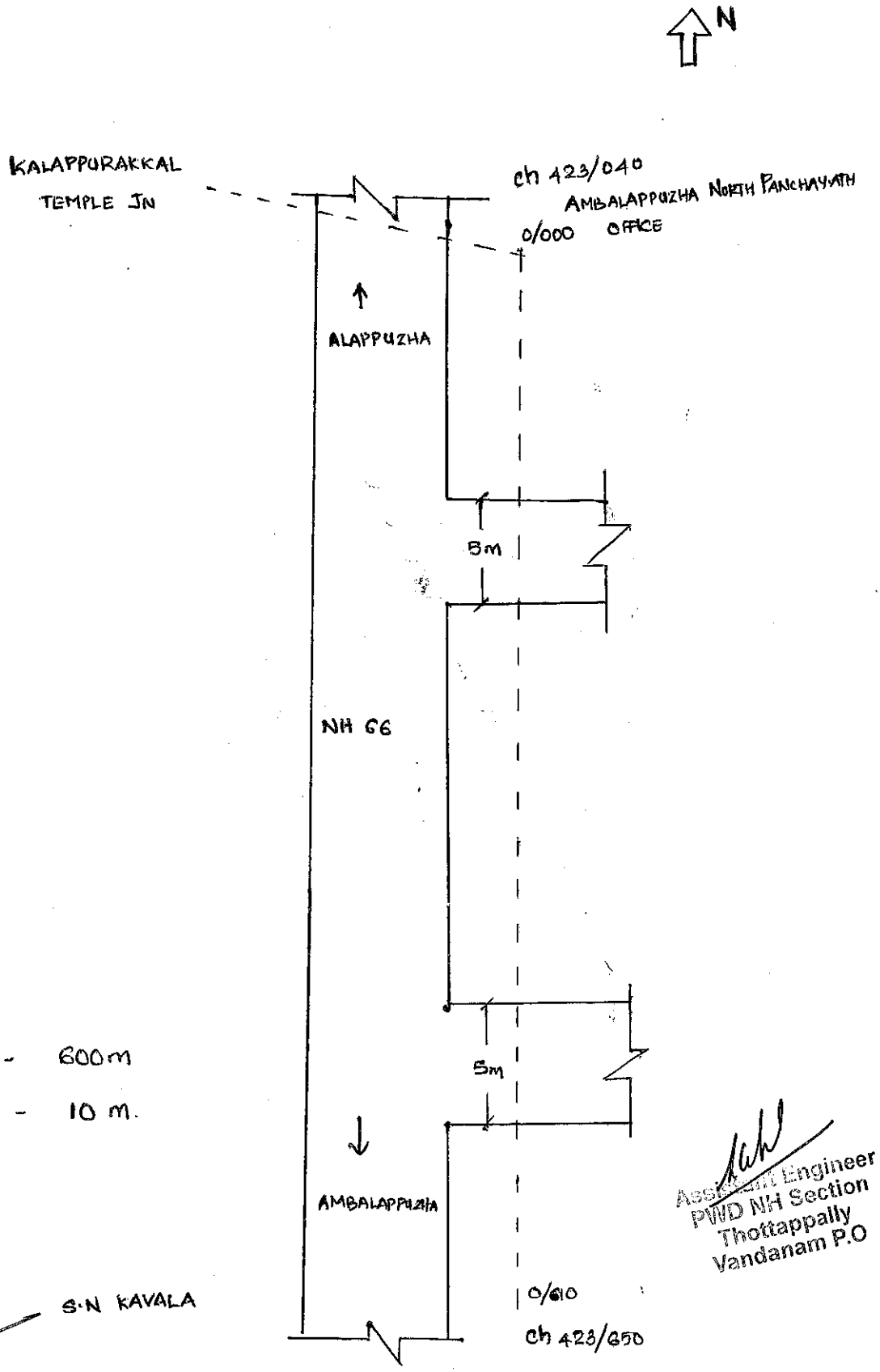
Copy to:

1. Senior Technical Director, NIC for uploading in the Ministry's website
2. The Executive Engineer, PWD NH Division, Alappuzha for information please.

V.V. Sastry

(V.V. Sastry)
Regional Officer cum Highway Administration

SITE PLAN FOR LAY OFC AND INSTALLATION OF MH IN ALAPPUZHA ch 423/040 to 423/650 FOR RELIANCE JIO



Beamcutting - 600m

Chipping Carpet - 10 m.

S.N KAVALA

ASST. EXECUTIVE ENGINEER
NATIONAL HIGHWAYS DIVISION
ALAPPUZHA

Assistant Engineer
PWD NH Section
Thottappally
Vandanam P.O

CHECK LIST

Guidelines for processing the proposal foraccommodation of Public and Industrial Utility services along and across National Highways

Relevant circulars

1. Ministry circular No. NH-41(58)/68 dated 31-01-1969
2 Ministry circular No. NH-III/P/66/76 dated 18- 11- 1976
3 .Ministry circular No. RW- NJ-III/P/66/76 dated 01-05-1982
4. Ministry circular No. RW/NH-11037/1/86-DOi(II) dated 28-07-1993
5. Ministry circular No. RW/NH-11037/1/86-DOi dated 19-01-1995
6 .Ministry Circular No.RW/NH-34066/2/95/S&R dated 25-10-1999
7. Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17-09-2003
8. Ministry Circular No.RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016

L. No	ITEM	Information/Status	Remarks
1.	General Information	Proposal description : Trenching & laying of OFC and installation of MH from Ambalapuzha North to S.N. Jn.	
1.1	Name and Address of the applicant/agency	Vinod Nair, State lead RoW, Reliance Jio Infocomm Ltd, Kochi, Kerala	
1.2	National Highway Number	NH-66	
1.3	State	Kerala	
1.4	Location	Ambalapuzha North Panchayat office front to S.N.Jn. Ch: 423/040 to 423/650	

Chainage in Km	Length (km)	ROW (m)	Distance of Proposed Utility from Centre of NH	LHS/RHS
423/040 to 423/650	0.610 Km	30m	11 meters (av) from Centerline of NH	LHS

1.5	Defect Liability Period of last work undertaken in the stretch	3 years from 2018.	
1.6	Proposed location of Utility line crossing the NH	Ambalapuzha North Panchayat office front, at chainage 423/040	
1.7	Proposal to acquire land	land acquisition with NHAI	
1.8	Whether proposal is in the same side where land is not to be acquired.	NA	
1.9	Details of already laid services , if any along the proposed route	KWA pipelines, BSNL Cables	
1.10	Number of existing lanes (2/4/8 lanes)	2 lanes	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.12	Service road existing or not if yes, then which side	No	
1.13	Proposed service road	NA	
1.14	Whether proposed utility line is after the service road or between the service road and	NA	

3/b

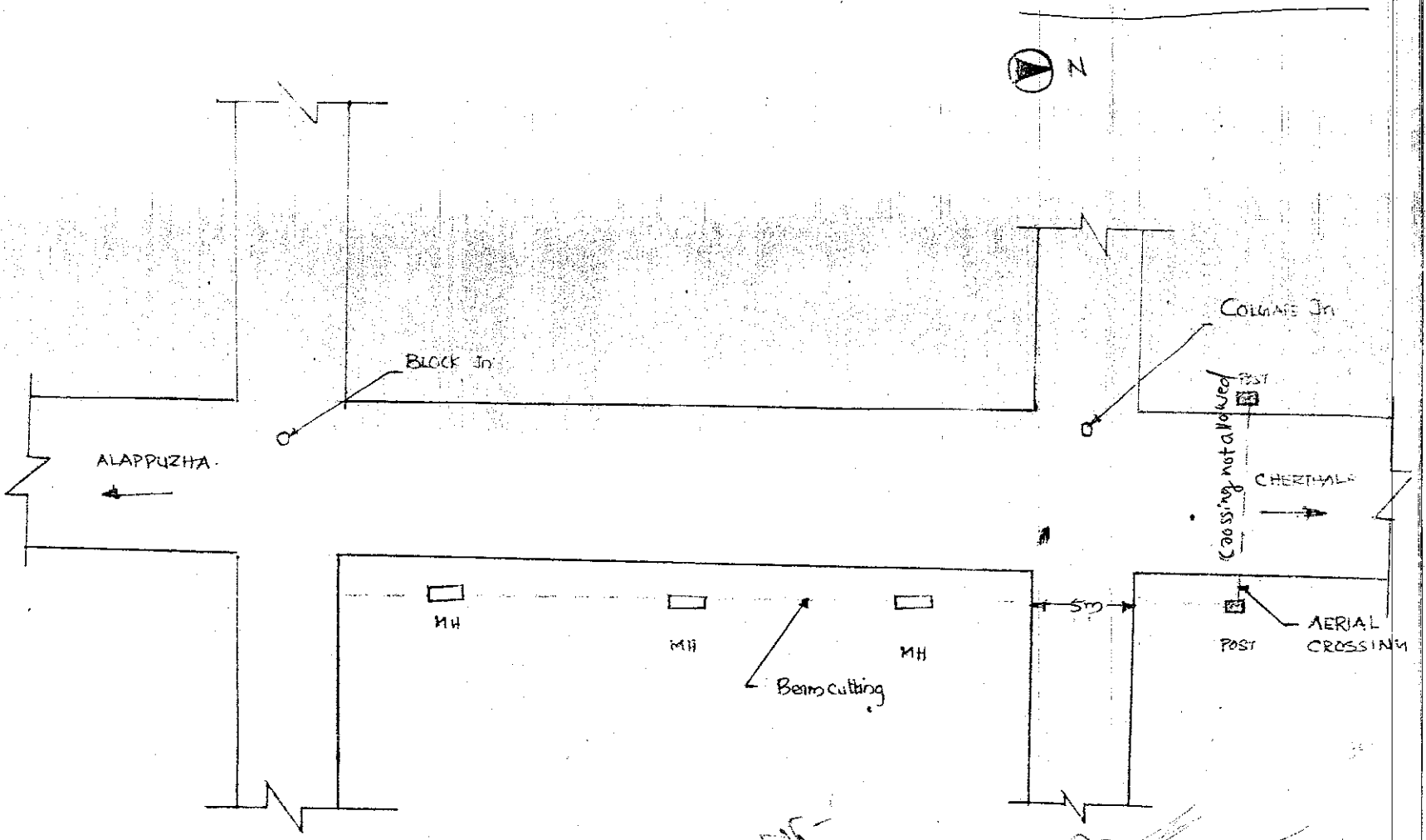
	main carriageway		
1.15	Whether carrying of utility linehas been proposed on highway bridges if yes then mention the methodology proposed for the same	No	
1.16	Whether carrying of utility linehas been proposed on the parapet /any part of the bridges. If yes then mention the methodology proposed for the same	No	
1.17	If crossing of the road involved. If yes it shall be either encased in pipes or through structure or conduit specially built for the purpose at the expense of the agency awing the line	Yes	
	(a) whether existing drainage structures are allowed to carry utility line	No	
	(b) Is It on a line normal to NH	Yes	
	(c) what is the distance of crossing the utility line from the existing structures crossing shall not be too near the existing structures on the NH minimum distance being 15m	No	
	(d) The casing pipe (or conduit pipe in the case of electric cables) carrying the utility line shall be of steel, Cast iron or reinforce cement concrete or have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable.**Mention type of casing**	HDPE Casing	
	(e) Ends of casing / conduit pipes shall be sealed form outside , so that it does not act as drainage path	No	
	(g) The top of the casing /conduit pipe containing the utility services to cross the road shall be atleast 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being atleast 0.3m below the drain inverts. Mention the proposed details.	1.2meters below the top of subgrade	
	(h) Mention the methodology proposed for the crossing of road for the proposed utility line. Crossing shall be by boring method (HDD) (trenchless technology). where the stretch is in Defect Liability Period (DLP)	HDD method	
	(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 water way along it	–	
2.	Document/drawings to be enclosed with the proposal	sketch attached	
2.1	Cross section showing the size of the trench for open trenching method	sketch attached	

	(Is it normal size of 1.2 m deep x 0.3m wide) 1. Should not be greater than 60cm wider than the outer diameter of the pipe. 2. Located as close to the extreme edge of the right of way as possible. 3. shall not be permitted to run along the national highways when the road formation is situated in double cutting nor shall be laid over the existing culverts and bridges. 4. These should be so laid that their top is least 0.5m below the ground level so as not to obstruct the drainage of the road land.		
2.2	Cross section showing the size of the pit and the location of the cable for HDD method	cross section attached	
2.3	Strip plan/route plan showing the proposed utility line, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	route plan attached	
2.4	Methodology for laying of utility line	HDD ✓	
2.4.1	Open trenching method (Open trenching in Bituminous surface will be allowed in the utility corridor only where road is not under Defect liability Period, with proper justification for not using HDD) If yes, what is the methodology for refilling the trench	NA	
	a) Defect Liability Period of the Stretch	3 years	
	b) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe	✓	
	c) For filling of the trench, bedding shall be at a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods, and cobbles and graded to yield a firm surface without a sudden change in the bearing values. Unsuitable soil and rock edged should be excavated and replaced by selected materials.	✓	
	d) The backfill shall be completed in two stages (1) side fill to level of the top of the pipe and (2) over fill to the bottom of the road crest.	✓	
	e) The side fill shall consists of granular material laid in 15 cm layers each	✓	

	consolidated by mechanical tempering and controlled addition of moisture to 95 % of the proctors density. Over fill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.	✓	
	f) The road crest shall be built to the same strength as the existing crest on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	✓	
	g) The excavation shall be protected by flag man, signs and barricades and red lights during night hours.	✓	
	h) If required, a diversion shall be constructed at the expense of the agency owing the petroleum line/ underground water conductor system	✓	
2.4.2	Locations and Total length of Stretch where Open trenching adopted	Ambalapuzha North Panchayath front to S.N.Jn. Total 600 metres. Ch. 423/040 to 423/640 (berm)	
2.4.3	Horizontal directional drilling (HDD), method	✓	
2.4.4	Methodology for laying of utility line through CD works and method of laying. In cases where the carrying of Gas pipe line on the bridge becomes in escapable.	Nil	
2.4.5	Location and Total length of Stretch where HDD adopted	at Ambalapuzha North Panchayat front Total 10 metres Road Crossing Ch: 423/040.	
3.	Draft license agreement is submitted along with the proposal	yes, attached	
3.1	The license fee estimate as per ministry's guide lines issued vide circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	~~Undertakings attached.~~ yes.	
4.	Whether performance bank guarantee as per ministry's circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016 is obtained/undertaking attached	Undertakings attached.	
4.1	Confirmation of BG has been obtained or not as per MORTH /NHAI guide lines	BG will be submitted after approval	
5.	Affidavit /Undertaking form the applicant for the following is to be furnished.	yes	
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to the MoRTH/NHAI/PWD or to the concerned agency as decided by MoRTH.	Yes	
5.2	Undertaking for renewal of bank guarantee as and when asked by MORTH /NHAI/PWD	yes	

5.3	Undertaking for confirming all standard conditions of MoRTH's circularsnumber RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	Yes	
5.4	Undertaking for indemnity against all damages and claims	Yes	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic	Yes	
5.6	Undertaking that prior approval of the MoRTH/NHAI/PWD shall be obtained before undertaking any work for installation, shifting or repairs or alterations to the utility line located in the National Highway right of ways.	Yes	
5.7	Undertaking that expenditure if any incurred by PWD/MoRTH/NHAI for repairing any damage caused to the national highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owing the line.	Yes	
5.8	Undertaking that text of license deed is as per verbatim of MORTH format (issued by ministry's Circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	Yes	
5.9	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of electricity, Chief controller of explosives, petroleum and explosive organization, oil industry safety directorate , state / central pollution control board and any other statutory clearances as applicable before applying to the highway administrations.	Yes	
5.10	Undertaking that the utility line will be shifted by the utility agency at the cost of the agency owing the utility line, if the MORTH / NHAI/PWD consider it necessary in future to shift the utility line for expansion of road.	yes	
6.	Who will sign the agreement on behalf of utility line agency	Should be provided by utility provider	
	Power of attorney to sign the agreement is available or not	No	
7.	Certificate from PD NHAI/Executive Engineer, PWD as per the format	Yes.	

SITE PLAN FOR LAYING OFC AND INSTALLATION OF MH IN ALAPPUZHA CH



Beam cutting [Post]	-	2 -	60 x 60
Beam cutting [MH]	-	3 -	90 x 60
Beam cutting	-	1 -	1.15Km

ASST: EXECUTIVE ENGINEER
NATIONAL HIGHWAY SUB DIVISION
ALAPPUZHA

2/6

CHECK LIST

Guidelines for processing the proposal foraccommodation of Public and Industrial Utility services along and across National Highways

Relevant circulars

1. Ministry circular No. NH-41(58)/68 dated 31-01-1969
2 Ministry circular No. NH-III/P/66/76 dated 18- 11- 1976
3 .Ministry circular No. RW- NJ-III/P/66/76 dated 01-05-1982
4. Ministry circular No. RW/NH-11037/1/86-DOi(II) dated 28-07-1993
5. Ministry circular No. RW/NH-11037/1/86-DOi dated 19-01-1995
6 .Ministry Circular No.RW/NH-34066/2/95/S&R dated 25-10-1999
7. Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17-09-2003
8. Ministry Circular No.RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016

L. No	ITEM	Information/Status	Remarks
1.	General Information	Proposal description : trenching & laying of OFC and installation of MH at ARYAD BHA (Alappuzha)	
1.1	Name and Address of the applicant/agency	Vindd Nair, State lead RoW, Reliance Jio Infocomm Ltd, Kochi - Kerala	
1.2	National Highway Number	NH-66	
1.3	State	Kerala	
1.4	Location	Colgate Jn to Block Jn at Aryad ch: 401/200 to 402/620	

Chainage in Km	Length (km)	ROW (m)	Distance of Proposed Utility from Centre of NH	LHS/RHS
401/200 to 402/620	1.42 Km	30 m	11 meters (av) from Center line of NH	LHS

1.5	Defect Liability Period of last work undertaken in the stretch	3 years from 2018	
1.6	Proposed location of Utility line crossing the NH	at Colgate Jn. ch: 401/200	
1.7	Proposal to acquire land	land aquisition with NHAI	
1.8	Whether proposal is in the same side where land is not to be acquired.	NA	
1.9	Details of already laid services , if any along the proposed route	KWA pipeline, BSNL Cables	
1.10	Number of existing lanes (2/4/8 lanes)	2 lanes	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.12	Service road existing or not if yes, then which side	NA	
1.13	Proposed service road	NA	
1.14	Whether proposed utility line is after the service road or between the service road and	NA	

3
b

	main carriageway		
1.15	Whether carrying of utility linehas been proposed on highway bridges if yes then mention the methodology proposed for the same	No	
1.16	Whether carrying of utility linehas been proposed on the parapet /any part of the bridges. If yes then mention the methodology proposed for the same	No	
1.17	If crossing of the road involved. If yes it shall be either encased in pipes or through structure or conduit specially built for the purpose at the expense of the agency awing the line	Yes	
	(a) whether existing drainage structures are allowed to carry utility line	No	
	(b) Is It on a line normal to NH	Yes	
	(c) what is the distance of crossing the utility line from the existing structures crossing shall not be too near the existing structures on the NH minimum distance being 15m	No	
	(d) The casing pipe (or conduit pipe in the case of electric cables) carrying the utility line shall be of steel, Cast iron or reinforce cement concrete or have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable.**Mention type of casing**	HDPE Casing	
	(e) Ends of casing / conduit pipes shall be sealed form outside , so that it does not act as drainage path	-	
	(g) The top of the casing /conduit pipe containing the utility services to cross the road shall be atleast 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being atleast 0.3m below the drain inverts. Mention the proposed details.	1.2 meters below the top of subgrade	
	(h) Mention the methodology proposed for the crossing of road for the proposed utility line. Crossing shall be by boring method (HDD) (trenchless technology). where the stretch is in Defect Liability Period (DLP)	HDD method	
	(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 water way along it	—	
2.	Document/drawings to be enclosed with the proposal	Sketch attached	
2.1	Cross section showing the size of the trench for open trenching method	Sketch attached.	

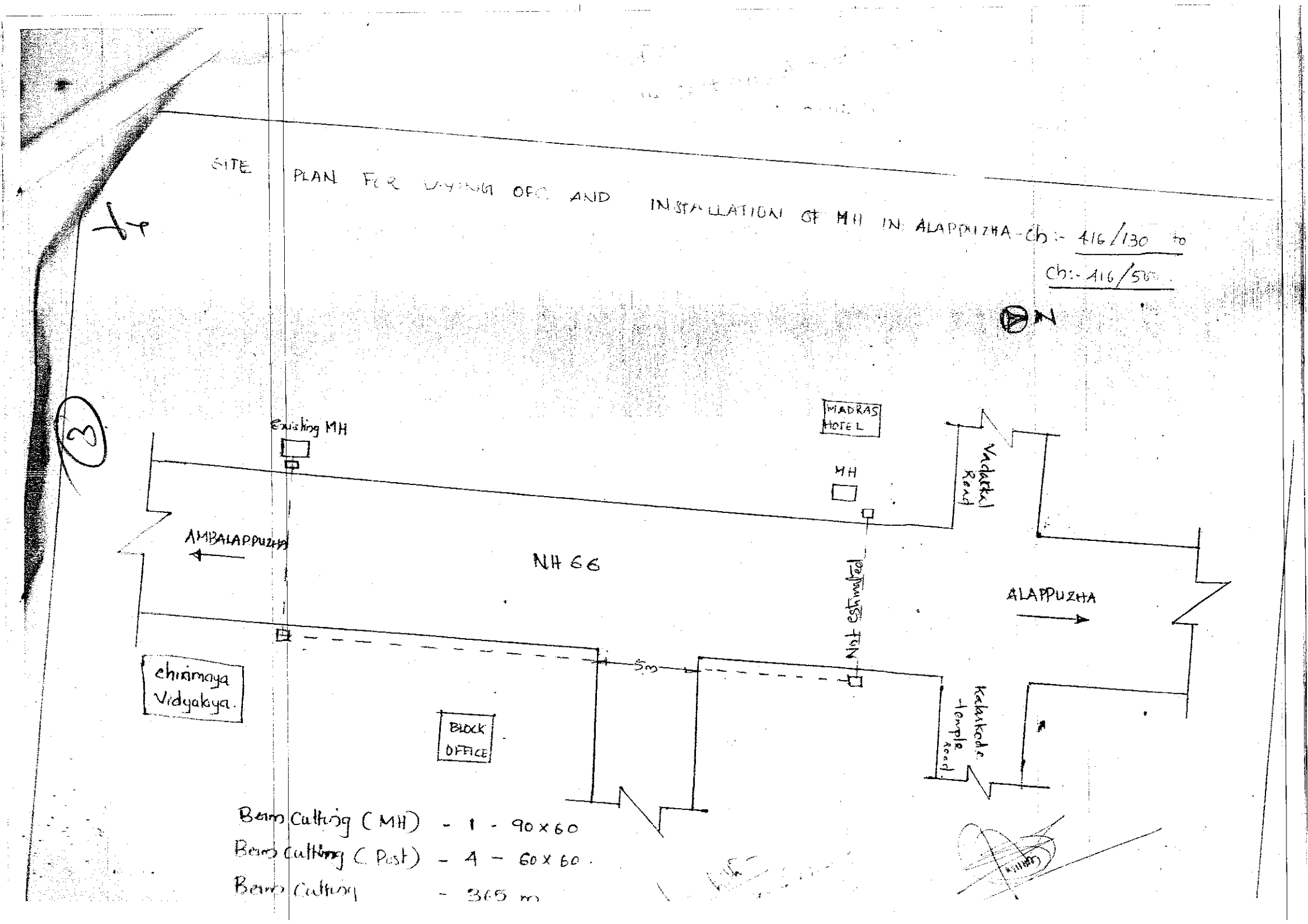
4/6

	(Is it normal size of 1.2 m deep x 0.3m wide) 1. Should not be greater than 60cm wider than the outer diameter of the pipe. 2. Located as close to the extreme edge of the right of way as possible. 3. shall not be permitted to run along the national highways when the road formation is situated in double cutting nor shall be laid over the existing culverts and bridges. 4. These should be so laid that their top is least 0.5m below the ground level so as not to obstruct the drainage of the road land.		
2.2	Cross section showing the size of the pit and the location of the cable for HDD method	Cross section attached	
2.3	Strip plan/route plan showing the proposed utility line, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Route Plan attached	
2.4	Methodology for laying of utility line	HDD	
2.4.1	Open trenching method (Open trenching in Bituminous surface will be allowed in the utility corridor only where road is not under Defect liability Period, with proper justification for not using HDD) If yes, what is the methodology for refilling the trench	NA	
	a) Defect Liability Period of the Stretch	3 years	
	b) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe	✓	
	c) For filling of the trench, bedding shall be at a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods, and cobbles and graded to yield a firm surface without a sudden change in the bearing values. Unsuitable soil and rock edged should be excavated and replaced by selected materials.	✓	
	d) The backfill shall be completed in two stages (1) side fill to level of the top of the pipe and (2) over fill to the bottom of the road crest.	✓	
	e) The side fill shall consists of granular material laid in 15 cm layers each	✓	

	consolidated by mechanical tempering and controlled addition of moisture to 95 % of the proctors density. Over fill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.	✓	
	f) The road crest shall be built to the same strength as the existing crest on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	✓	
	g) The excavation shall be protected by flag man, signs and barricades and red lights during night hours.	✓	
	h) If required, a diversion shall be constructed at the expense of the agency owing the petroleum line/ underground water conductor system	✓	
2.4.2	Locations and Total length of Stretch where Open trenching adopted	Colgate Jn to Block Jn at Aryad . ch: 401/200 to 402/620 (berm)	
2.4.3	Horizontal directional drilling (HDD), method	✓	
2.4.4	Methodology for laying of utility line through CD works and method of laying. In cases where the carrying of Gas pipe line on the bridge becomes in escapable.	Nil	
2.4.5	Location and Total length of Stretch where HDD adopted	at Colgate Jn ch: 401/200 Total 10m road crossing HDD	
3.	Draft license agreement is submitted along with the proposal	yes, attached	
3.1	The license fee estimate as per ministry's guide lines issued vide circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	yes	
4.	Whether performance bank guarantee as per ministry's circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016 is obtained/undertaking attached	Undertakings attached	
4.1	Confirmation of BG has been obtained or not as per MORTH /NHAI guide lines	BG will be submitted after approval.	
5.	Affidavit /Undertaking form the applicant for the following is to be furnished.	yes	
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to the MoRTH/NHAI/PWD or to the concerned agency as decided by MoRTH.	yes	
5.2	Undertaking for renewal of bank guarantee as and when asked by MORTH /NHAI/PWD	yes	

5.3	Undertaking for confirming all standard conditions of MoRTH's circularsnumber RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	Yes	
5.4	Undertaking for indemnity against all damages and claims	Yes	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic	Yes	
5.6	Undertaking that prior approval of the MoRTH/NHAI/PWD shall be obtained before undertaking any work for installation, shifting or repairs or alterations to the utility line located in the National Highway right of ways.	Yes	
5.7	Undertaking that expenditure if any incurred by PWD/MoRTH/NHAI for repairing any damage caused to the national highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owing the line.	Yes	
5.8	Undertaking that text of license deed is as per verbatim of MORTH format (issued by ministry's Circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	Yes	
5.9	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of electricity, Chief controller of explosives, petroleum and explosive organization, oil industry safety directorate , state / central pollution control board and any other statutory clearances as applicable before applying to the highway administrations.	Yes	
5.10	Undertaking that the utility line will be shifted by the utility agency at the cost of the agency owing the utility line, if the MORTH / NHAI/PWD consider it necessary in future to shift the utility line for expansion of road.	Yes	
6.	Who will sign the agreement on behalf of utility line agency	Should be provided by Utility provider	
	Power of attorney to sign the agreement is available or not	No.	
7.	Certificate from PD NHAI/Executive Engineer, PWD as per the format	Yes	

SITE PLAN FOR LAYING OFC AND INSTALLATION OF MH IN ALAPPUZHA - Ch :- 416/130 to Ch:- 416/50



Beam Cutting (MH) - 1 - 90 x 60

Beam Cutting (Post) - 4 - 60 x 60.

Beam Cutting - 365 m

2
6

CHECK LIST

Guidelines for processing the proposal foraccommodation of Public and Industrial Utility services along and across National Highways

Relevant circulars

1. Ministry circular No. NH-41(58)/68 dated 31-01-1969
2 Ministry circular No. NH-III/P/66/76 dated 18- 11- 1976
3 .Ministry circular No. RW- NJ-III/P/66/76 dated 01-05-1982
4. Ministry circular No. RW/NH-11037/1/86-DOi(II) dated 28-07-1993
5. Ministry circular No. RW/NH-11037/1/86-DOi dated 19-01-1995
6 .Ministry Circular No.RW/NH-34066/2/95/S&R dated 25-10-1999
7. Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17-09-2003
8. Ministry Circular No.RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016

L. No	ITEM	Information/Status	Remarks
1.	General Information	Proposal description. Trenching by Laying of OFC and installation of MH at Kalarcode Jn to Amb. BHS, Alapuzha	
1.1	Name and Address of the applicant/agency	Vinod Nair, State lead ROW, Reliance Jio Infocomm, Ltd, Kochi, Kerala	
1.2	National Highway Number	NH-66	
1.3	State	Kerala	
1.4	Location	Kalarcode, Alappuzha for Ambalapuzha Block HA Connectivity. Ch: 416/500 to 416/130	

Chainage in Km	Length (km)	ROW (m)	Distance of Proposed Utility from Centre of NH	LHS/RHS
416/500 to 416/130	0.375	30 m	11 meter average from Centre line of NH	LHS

1.5	Defect Liability Period of last work undertaken in the stretch	3 years from 2018.	
1.6	Proposed location of Utility line crossing the NH	NH Crossing at beginning and end of 0.375metres.	
1.7	Proposal to acquire land	land acquisition with NHAI	
1.8	Whether proposal is in the same side where land is not to be acquired.	NA	
1.9	Details of already laid services, if any along the proposed route	KWA pipeline, BSNL Cables	
1.10	Number of existing lanes (2/4/8 lanes)	2 lanes	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.12	Service road existing or not if yes, then which side	No	
1.13	Proposed service road	NA	
1.14	Whether proposed utility line is after the service road or between the service road and	NA	

	main carriageway		
1.15	Whether carrying of utility linehas been proposed on highway bridges if yes then mention the methodology proposed for the same	No	
1.16	Whether carrying of utility linehas been proposed on the parapet /any part of the bridges. If yes then mention the methodology proposed for the same	No	
1.17	If crossing of the road involved. If yes it shall be either encased in pipes or through structure or conduit specially built for the purpose at the expense of the agency awing the line	Yes	
	(a) whether existing drainage structures are allowed to carry utility line	No	
	(b) Is It on a line normal to NH	Yes	
	(c) what is the distance of crossing the utility line from the existing structures crossing shall not be too near the existing structures on the NH minimum distance being 15m	No	
	(d) The casing pipe (or conduit pipe in the case of electric cables) carrying the utility line shall be of steel, Cast iron or reinforce cement concrete or have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable.**Mention type of casing**	HDPE Casing	
	(e) Ends of casing / conduit pipes shall be sealed form outside , so that it does not act as drainage path	—	
	(g) The top of the casing /conduit pipe containing the utility services to cross the road shall be atleast 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being atleast 0.3m below the drain inverts. Mention the proposed details.	1.2 meter below the top of Subgrade	
	(h) Mention the methodology proposed for the crossing of road for the proposed utility line. Crossing shall be by boring method (HDD) (trenchless technology). where the stretch is in Defect Liability Period (DLP)	HDD method	
	(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 water way along it	—	
2.	Document/drawings to be enclosed with the proposal	Sketch attached	
2.1	Cross section showing the size of the trench for open trenching method	Sketch attached	

	(Is it normal size of 1.2 m deep x 0.3m wide) 1. Should not be greater than 60cm wider than the outer diameter of the pipe. 2. Located as close to the extreme edge of the right of way as possible. 3. shall not be permitted to run along the national highways when the road formation is situated in double cutting nor shall be laid over the existing culverts and bridges. 4. These should be so laid that their top is least 0.5m below the ground level so as not to obstruct the drainage of the road land.		
2.2	Cross section showing the size of the pit and the location of the cable for HDD method	Cross section attached	
2.3	Strip plan/route plan showing the proposed utility line, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Route Plan attached	
2.4	Methodology for laying of utility line	HDD	
2.4.1	Open trenching method (Open trenching in Bituminous surface will be allowed in the utility corridor only where road is not under Defect liability Period, with proper justification for not using HDD) If yes, what is the methodology for refilling the trench	NA	
	a) Defect Liability Period of the Stretch	3 years	
	b) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe	✓	
	c) For filling of the trench, bedding shall be at a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods, and cobbles and graded to yield a firm surface without a sudden change in the bearing values. Unsuitable soil and rock edged should be excavated and replaced by selected materials.	✓	
	d) The backfill shall be completed in two stages (1) side fill to level of the top of the pipe and (2) over fill to the bottom of the road crest.	✓	
	e) The side fill shall consists of granular material laid in 15 cm layers each	✓	

	consolidated by mechanical tempering and controlled addition of moisture to 95 % of the proctors density. Over fill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.	✓	
	f) The road crest shall be built to the same strength as the existing crest on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	✓	
	g) The excavation shall be protected by flag man, signs and barricades and red lights during night hours.	✓	
	h) If required, a diversion shall be constructed at the expense of the agency owing the petroleum line/ underground water conductor system	✓	
2.4.2	Locations and Total length of Stretch where Open trenching adopted	At Kalarcode, ch: 416/130 to 416/500, total 375mtrs.	
2.4.3	Horizontal directional drilling (HDD), method	✓	
2.4.4	Methodology for laying of utility line through CD works and method of laying. In cases where the carrying of Gas pipe line on the bridge becomes in escapable.	Nil	
2.4.5	Location and Total length of Stretch where HDD adopted	2 crossings at ch. 416/130 and 416/500	
3.	Draft license agreement is submitted along with the proposal	yes, attached	
3.1	The license fee estimate as per ministry's guide lines issued vide circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	yes	
4.	Whether performance bank guarantee as per ministry's circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016 is obtained/undertaking attached	Undertakings attached	
4.1	Confirmation of BG has been obtained or not as per MORTH /NHAI guide lines	BG will be submitted after approval	
5.	Affidavit /Undertaking form the applicant for the following is to be furnished.	yes	
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to the MoRTH/NHAI/PWD or to the concerned agency as decided by MoRTH.	yes	
5.2	Undertaking for renewal of bank guarantee as and when asked by MORTH /NHAI/PWD	yes	

6/6

5.3	Undertaking for confirming all standard conditions of MoRTH's circularsnumber RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	Yes	
5.4	Undertaking for indemnity against all damages and claims	Yes	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic	Yes	
5.6	Undertaking that prior approval of the MoRTH/NHAI/PWD shall be obtained before undertaking any work for installation, shifting or repairs or alterations to the utility line located in the National Highway right of ways.	Yes	
5.7	Undertaking that expenditure if any incurred by PWD/MoRTH/NHAI for repairing any damage caused to the national highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owing the line.	Yes	
5.8	Undertaking that text of license deed is as per verbatim of MORTH format (issued by ministry's Circular number RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016	Yes	
5.9	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of electricity, Chief controller of explosives, petroleum and explosive organization, oil industry safety directorate , state / central pollution control board and any other statutory clearances as applicable before applying to the highway administrations.	Yes	
5.10	Undertaking that the utility line will be shifted by the utility agency at the cost of the agency owing the utility line, if the MORTH / NHAI/PWD consider it necessary in future to shift the utility line for expansion of road.	Yes	
6.	Who will sign the agreement on behalf of utility line agency	Should be provided by Utility provider.	
	Power of attorney to sign the agreement is available or not	No	
7.	Certificate from PD NHAI/Executive Engineer, PWD as per the format	Yes	