

GOVERNMENT OF INDIA MINISTRY OF ROAD TRANSPORT & HIGHWAYS

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Fax: 0471-2320879	Public Office Building,
E-mail: rokeralamorth@gmail.com	Thiruvananthapuram-695033
No.RW/TRI/Utility/5/2017-18	Dated: 23.02.2018

Invitation of public comments

Sub:- Proposal for permission to lay Natural Gas Pipe Line km 237/681 to km 280/615 (from Kothamangalam to Irumpanam Junction) and from km 280/615 to km 286/448 (from Irumapnam Junction to Kundannoor) on NH 85(Old NH 49) in the State of Kerala by Indian Oil-Adani Gas Pvt. Ltd- reg.

The proposal is seeking permission to lay Natural Gas Pipe Line from km 237/681 to km 280/615(from Kothamangalam to Irumpanam Junction) and from km 280/615 to km 286/448 (from Irumapnam Junction to Kundannoor) on NH 85(Old NH 49) in the State of Kerala by Indian Oil-Adani Gas Pvt. Ltd submitted to this office vide Chief Engineer (NH), PWD Kerala letter dated 19.02.2018, in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal by the Indian Oil-Adani Gas Pvt. Ltd to lay the underground Natural Gas Pipe Line is as under:

Stretch in Km.	Length (Km.)	ROW (m)	Dist. Of Prop. Road cutting from centre of NH (m).
RHS Side	yı, yı s⊥yı s⊥tyar	r	
From 237/681 to km 250/410 and from Km 250/664 to km 280/615 on NH 85(Old NH 49)	.42.743	20	10
From km 280/615 to km 286/448 on NH 85(Old NH 49)	5.833	20	10

3. Indian Oil-Adani Gas Pvt. Ltd has furnished the undertakings mentioning that they undertake to shift the gas pipeline, if required by Highway Authority at any time for expansion of road at their own cost. A checklist describing the proposal is enclosed.

4. 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. 5. 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, Opposite to museum, Thiruvananthapuram – 695033.

Encl: As above,

Yours faithfully, -V- (, 2 vs

Regional Officer cum Highway Administrator

Copy to:

- 1. Senior Technical Director, NIC for uploading in the Ministry's website.
- 2. The Chief Engineer (NH), Kerala PWD for information please.
- 3. The Executive Engineer, NH Division, Muvattupuzha for information please.

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

CHECK-LIST.

Guidelines for processing the proposal for accommodation of Public and Industrial Utility services along and across National Highway vested with PWD-NH Division

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Relevant Circulars

- Ministry Circular No-NH-41 (58)/68 dated 31.01 1969
 Ministry Circular No. NH-III/P/66/76 dated 18 11 1976
 Ministry Circular No. RW/NJ-III/P/66/76 dated 01.05 1982
- Ministry Circular No. RW/NH-11037/1/86/DOI (ii)dated 28.7.1993
 Ministry Circular No.RW/NH11037/1/86/DOI dated 19.1.1995
- 6) Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999
- Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.09.2003
 Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Check list for getting approval for constructing underground Natural Gas Pipeline Network on NHland

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1	General Information	<u>i si san angera</u> Pastara	Albu de la sustan (g. 1999)					
1:1		and the second	of in the	II/309E,4 th NH Bypass,	Ajay Pillai Asset Head I-Adani Gas Pvi Floor, Andryan A Maradu PO, Erni Dist, 682 304	rcade		
1.2	National Highway N	umber			NH 85		KERTINA MARINE SA	fiel getacal debi an an a
1.3	State		Родания и служи служи се на служи служи служи су служи служи служи служи су служи		Kerala		un Alburg States Alburg Aburg Alburg Aburg Alburg	
1.4	Location			Irumpanz	im – Kothamanga			ağışır.
il (1888) 2007 - Ali	Chainage in Km	Lerigth (Kin)	RC	W (m)	Distance of Pro Utility from Ce NH	the stand of the second stand stands	EHS/RH	S
S. X.	Km 237.681	42,743		20.	10 2010 - 2010 2010 - 2010 201	undun and data Constant	RHS	
1.5	Defect Liability Pe undertaken in the stri	eriod of la etch	ast work	Irumpanam	nder DLP except Jn. Ch: 280/615 v ed on 28.11.2018	which		
1.6	Proposed location of the NH	utility line	crossing	Dra	wings Attached			
1.7	Proposal to acquire l		- Starting (1995) Starting (1995)	No acquisi	tion of land to be	done	801) S	n gangaran. Nggangga
1.8	Whether proposal is where land is not to l	be acquired	o, or strately power of Reeliger 9 - Society Reeliger 9 - Society	all a close provides	No			
1.9	Details of already la along the proposed ro	aid service	s, if any	κ.	A, BSNL, etc			
1,10	Number of existing 1. (2/4/8 lanes)				2 Lane			
1.11	Proposed number of (2 lane with pay lanes)		ers/4/6/8		2 Lane			
.12	Service road existing which side	y or not if	yes, then		No			
.13	Proposed service road				NA		0 m	
1.14 DCH	Whether proposal to Aligy Pinartvice ro. Service road and pair	ad or betw	veen the	En	d of the ROW	(2pm)	e de la compañía de la	

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	.15	Whether carrying of gas pipeline has been proposed on highway Bridges. If yes, then mention the methodology proposed for the same.	NA The second se	
	.16	Whether carrying of gas pipeline has been proposed on the parapet/any part of the bridges. If yes, then mention the methodology proposed for the same.	Antipasse NATION Transformer and antipast	
	1.17	If Crossing 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 expense of the agency owing the line	Yes	
		(a) Whether existing drainage structures are allowed to carry gas pipelines	No	an a
		(p) is it on a line normal to NH	NA	18-30, fuites lui-
		(c) Crossings shall not be too near the existing structures on the national highway, the minimum distance being 15 meter. What is the distance from the existing structures	Minimum distance followed	Alexandro Alexandro Alexandro Alexandro Alexandro
		(d) the casing pipe (or conduit pipe in the case of electric / OFC cable) carrying the gas 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. Mention type of	Mild Steel Pipe as casing pipe	
		casing. (e) Ends of the casing/conduit pipe shall be sealed form 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 drain in cuts and toe of slope toe of slope in the fills.	Yes	
		 (g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details. 	Drawing Attached	
		(h) Mention the methodology proposed for crossings of roads for the proposed gas pipeline. Crossing shall be by boring method. (HDD) trenchless technology where the structure is in defect liability period. (DLP)	Horizontal Directional Drilling Method	
		(i) The casing/Conduit pipe shall be installed with an even bewaring throughout its length and in such a manner as to prevent the formation of a waterway along it.	Yes	
Ajay	Pille	Document/Drawings enclosed with the proposal. HEAD	Yes	Que

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	Cross section showing the size of trench		n den en arrende strende de Reserve de la company de la
	for open trenching method (is it normal size of 1.2 m deep x 0.3m wide)		
2 3 (a) - 2 3 (b) - 2 4 (b) - 2 (b) - 2 4 (b) - 2 (b	(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 form the centre-lines		
2.1	of the nearest carriageway. (iii) Shall not be permitted to run along	Enclosed	
	the National Highways 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 at least 0.6 meter below the ground level so as not to obstruct		
2.2	drainage of the road land Cross section showing the size of pit and location of cable for HDD method	Enclosed	
	Strip plan/Route Plan showing Gas pipe line, Chainage, width of ROW distance		
2.3	or proposed, cable form the edge of ROW, important miles stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of showing Gas- pipe line.		Amerikan Sanatan Sanat
	Open frenching method. (Open trenching in bituminous surface will be		an a
2,4.1	allowed in utility corridor only where road is not under defect liability period (DLP) with proper justification for not using HDD). If yes, Methodology for laying of refilling of trench)	Enclosed	
	(a) Defect liability period of the stretch	Not under DLP except Irumpanam Jn. Ch. 280/615 which expired on 28.11.2018	
	(b) The trench width should be at least 30 cm but not more than 60 cm wider than the outer diameter of the pipe	Enclosed	
	(c) 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 selected material.	Ýcs	
	(d) The backfill shall be completed in two stages (i) side fill to the level of the top to the pipe and (ii) overfill to the bottom of the road crust.	Yes	
	(c) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical	Yes	Ro _

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		moisture to 95% of the Proctor's		
		Density. Over fill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or pending will not be permitted		
		(f) Lie road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Yes	
		(g) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	Yes	
	7111 250 TN 1 2912 4	(h) If required, a diversion shall be constructed at the expenses of agency owing the utility line.	Yes	An III an an an Anna Anna An Anna An Anna Anna
	2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	entral (1997) Entral (1997)
	2,4,3	Methodology for laying of pipe line through CD Works and method of laying. In cases where the carrying of gas pipeline on the bridge becomes	ана социальной социальной социальной социальной социальной социальной социальной социальной социальной социальн Социальной социальной социальной социальной социальной социальной социальной социальной социальной социальной с Социальной социальной социальной социальной социальной социальной социальной социальной социальной социальной с	
	3	inescapable. Draft License Agreement signed by two witness	Enclosed	
	3.1	Wittess The license fee estimate as per Ministry's guidelines issued vide oircular no RW/NH- 33044/29/2015/S&R(R) dated 22.11.2016	After Sanction	
	4	Whether performance Bank guarantee as per the Ministry's Circular No. RW/NH- 53044/29/2015/S & R (R) dated 22.11.2016 is obtained/undertaking attached.	After Sanction	
	4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Yet to receive	in terring processing and the second s
	5	Affidavit/undertaking form the Application for the following is to be furnished		
11 11 11 11 11 11 11 11 11 11 11 11 11	5.1	Undertaking for not to Damage to other utility, if damaged then pay the losses either to MoRTEL/NHAUPWD or to the concerned agency as decided by MoRTEL	Binclosed	
	5.2	Undertaking for renewal of Bank Guarantee as and when asked by MORTH/NILAL	Enclosed	
	5.3	Undertaking for confirming all standard condition of MoRTH circular No.	Enclosed	

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Undertaking for management of traffic movement during laying of gas line 5.5 without hampering the traffic. Undertaking that prior approval of the MoRTH/NHAI/PWD shall be obtained before undertaking any work for installation, shifting or repairs, or 5.6 alterations to the gas pipeline located in the National Highway right-of-ways. Undertaking that expenditure, if any, incurred by MoRTH/NHAI/PWD. for repairing any damage caused to the National Highway by the laying, 5.7 maintenance or shifting of the Gas supply pipe line will be borne by the agency owing the line. Undertaking that text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's circular no. 5.8 RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 Undertaking that the applicant has obtained various safety clearances from the representative authorities such as Directorate of Electricity, Chief Controller of Explosives, Petroleum and 59 Explosive safety Organizations, State /Central Pollution Control Board and any other statutory clearances as applicable, before applying to Highway Administration. Undertaking that the utility line shall be shifted by the utility agency at the cost of the agency owing the utility line, if 5.10 the MoRTH/NHAI/PWD consider it necessary in future to shift the utility line for expansion of road. Who will sign the agreement on behalf 6 of Natural Gas pipe line agency? Power of Attorney to sign the agreement is available or not Certificate from EE - PWD NH as per the format.

DGM & ASSET HEAD nOi - Adani Gas Pvt.Ltd.

Emakulam, Kerala State.

EXECUTIVE ENGINEER NH (R) GIVISION NUVATTUSIIZHA

Enclosed

Enclosed

IndianOil-Adani Gas Pvt. Ltd.

Available

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Guidelines for processing the proposal for accommodation of Public and Industrial Utility services along

CHECK-LIST

and across National Highway vested with PWD-NH Division

- Relevant Circulars

 1) Ministry Circular No-NH-41 (58)/68 dated 31.01.1969

 2) Ministry Circular No. NH-111/P/66/76 dated 18.11.1976

 3) Ministry Circular No. RW/NJ-111/P/66/76 dated 01.05.1982

 4) Ministry Circular No. RW/NJ-111/P/66/76 dated 01.05.1982

 5) Ministry Circular No. RW/NH-11037/1/86/DOI (ii)dated 28.7.1993

 5) Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995

 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 (B) dated 17.09.2003

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

Check list for getting approval for constructing underground Natural Gas Pipeline Network on NHIand

LN o	Ite	em:		10	formation/Status	Remarks
1	General Information					AREA COLUMNED FOR A
1.1	Name and A Applicant/Agency		of the	. II/309E,4	Ajay Pillai Asset Head Jil-Adani Gas Pvt. Ltd. ^h Floor, Andryan Aroad s, Maradu PO, Ernakul Dist. 682 304	
1.2	National Highway N	umber	n an	al and an and a second second	NH 85	
1.3	State.			a an she are	Kerala	Martin and States and Annual States Sense Annual States and Annual States a
1.4	Location		Annen indere polier Annen Statuer Annen Statuer	Kunc	annoor - Irumpanam	ALL MARKED DOM: N. H.
	Chainage in Km	Lengih (Km)	RC	₩ (m)	Distance of Propos Utility from Centre	ed of LHS/RHS
44) 2411	Km 280.615 – 286.448 (RHS)	5.833		20	10	RHS
1.5	Defect Liability Pe undertaken in the stre		ast work	Irumpana	under DLP except in Jn. Ch: 280/615 whic ired on 28,11,2018	A COLOR AND A COLO
1.6	Proposed location of the NH		etossing	2000) 1257 - 1621 Million 1257 - 1621 Million	awings Attached	
1.7	Proposal to acquire la	ind		No acqui	sition of land to be done	
1.8	Whether proposal is where land is not to b	in the same	une side	12.000 (10.000) 10.000 (10.000) 10.000 (10.000) 10.000 (10.000) 10.000 (10.000)	No	
1.9	Details of already la along the proposed ro	ild_scrvice		K	WA, BSNL, etc	
1 ,10	Number of existing la (2/4/8 lanes)				2 Lane	
.11	Proposed number of 1 (2 lane with pave lanes)		ers/4/6/8		2 Lane	
.12	Service road existing which side		ves, then		No	
.13	Proposed service road	2011/2012			NA	Q.,
Hai	Whether proposal to after the service roa service road and main	d or betw	een the	l) E	nd of the ROW	eme

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Whether carrying of gas pipeline has been proposed on highway Bridges. If 1.15 yes, then mention the methodology proposed for the same. Whether carrying of gas pipeline has been proposed on the parapet/any part of NA 1.16 the bridges. If yes, then mention the methodology proposed for the same. If Crossing of the road involved, If yes, it shall be either encased in pipes or Yes through structure or conduits specially 1.17 built for that purpose at the expense of the agency owing the line (a) Whether existing drainage structures No are allowed to carry gas pipelines (b) is it on a line normal to NH (c) Crossings shall not be too near the existing structures on the national Minimum distance followed highway, the minimum distance being 15 meter. What is the distance from the existing structures (d) the casing pipe (or conduit pipe in the case of electric / OFC cable) carrying the gas line shall be of steel, cast iron, or reinforced cement concrete Mild Steel Pipe as casing pipe and have adequate strength and be large enough to permit ready withdrawal of the earrier pipe/cable. Mention type of casing. (e) Ends of the casing/conduit pipe shall be sealed form the outside, so that it Yes does not act as a drainage path. (f) The casing/conduit pipe should, as minimum extend from drain to drain in Yes cuts and toe of slope toe of slope in the fills. (g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at Drawing Attached least 0.3 m below the drain inverts. Mention the proposed details. (h) Mention the methodology proposed for crossings of roads for the proposed Horizontal Directional Drilling gas pipeline. Crossing shall be by boring method (HDD) trenchless technology where the structure is in defect liability. Method 4 period (DLP) (i) The casing/Conduit pipe shall be installed with an even bewaring throughout its length and in such a 20 manner as to prevent the formation of a waterway along it. Document/Drawings enclosed with the Yes proposal. av P Habber

IndianOil - Adahi Gas Pvt.Ltd. Ernakulam, Kerala State.

C		K		
		Cross section showing the size of trench for open trenching method (is it normal size of 1.2 m deep x 0.3 m 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 		
	2.1	less than 15 meter form the centre-lines of the nearest carriageway. (iii) Shall not be permitted to run along the National Highways when the road	Enclosed	
		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	- 10 al a per 100 an anter a como de la como El 10 al activita de la como de la El 10 al activita de la como de la	
		top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land	rilli bergini si bibili dan ang Ting atalan si pinanganan ang Ting atalan si pinanganan ang	
	2.2	Cross section showing the size of pit and location of cable for HDD method Strip plan/Route Plan showing Gas pipe line, Chainage, width of RCW distance	Enclosed	ing both the second s
	2.3	or proposed, cable form the edge of ROW, important miles stone, intersections, cross drainage works etc. Methodology for laying of showing Gas	Enclosed	
	2.41	pipe line. Open trenching method (Open trenching in bituminous surface will be allowed in utility corridor only where road is not under defect hability period (DLP) with proper justification for not using HDD). If yes, Methodology for jaying of refilling of trench)	Bnclosed	
		(a) Defect liability period of the stretch	Not under DLP except Irumpanam Jn. Ch: 280/615 which expired on 28.11.2018	
		 (b) The trench width should be at least 30 cm but not more than 60 cm wider than the outer diameter of the pipe. (c) For filling of the trench, Bedding 	Enclosed	
		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 selected material.	Yes	
		(d) The backfill shall be completed in two stages (i) side fill to the level of the top to the pipe and (ii) overfill to the bottom of the road crust.	Yes	Q 2
	Pillai	(e) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical	Yes Que	E TAGUEZO

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tampering and controlled addition of moisture to 95% of the Proctor's Density. Over fill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or pending will not be permitted. (f) The road crust shall be built to the same strength as the existing crust on Yes 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 flagman, signs and barricades, and red lights during night Yes hours. nių (k − tip. t (h) If required, a diversion shall be Yes constructed at the expenses of agency owing the utility line. Horizontal Directional Drilling (HDD) Yes 2.4.2 Method na stati zakoda elektrologija Alektroj Alektrono (1996) dist Methodology for laying of pipe line through CD Works and method of Nil laying. In cases where the carrying of 2.4.3 gas pipeline on the bridge becomes inescapable. Water Draft License Agreement signed by two Enclosed 3 witness The license fee estimate as por Ministry's guidelines issued vide circular no, RW/NH-33044/29/2015/S&R(R) dated After Sanction 3.1 herren: collects. Jones 22.11.2016 Whether performance Bank guarantee as per the Ministry's Circular No. RW/MI-33044/29/2015/S & R (R) dated 22.11.2016 is obtained/undertaking After Sanction 4 attached. Confirmation of BG has been obtained Yet to receive or not as per MoRTH/NHAT guidelines. 4.1 Affidavit/undertaking form the Application for the following is to be 5 furnished Undertaking for not to Damage to other utility, if damaged then pay the losses Enclosed either to MoRTH/NHAI/PWD or to the 5.1 concerned agency as decided by-3223882 18 m MøRTH. Undertaking for renewal of Bank Guarantee as and when asked by Enclosed 5.2 MORTH/NHAL Undertaking for confirming all standard condition of MoRTH circular No. Enclosed 5.3 RW/NH-33044/29/2015S&R(R) dt N.S. 22.41.2016 Undertaking for Indemnity against all Enclosed Allai damages and claims. AET HEAD IndianOil - Adani Gas Put.Ltd.

Ernakulam, Keraja State.

1 3.5	Undertaking for management of traffic movement during laying of gas line without hampering the traffic.	Enclosed	
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 gas pipeline located in the National Highway right-of-ways.	Enclosed	
5.7	Undertaking that expenditure, if any, incurred by MoRTH/NHAL/PWD for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Gas supply pipe line will be borne by the agency owing the line.	Enclosed	
5.8	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	Enclosed	
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 safety Organizations, State /Central Pollution Control Board and any other statutory clearances as applicable, before applying to Highway Administration.	Boclosed	
5,10	Undertaking that the utility line shall 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.	Enclosed	
6	Who will sign the agreement on behalf of Natural Gas pipe line agency?	IndianOil-Adani Gas Pvt. Ltd.	
	Power of Attorney to sign the agreement is available or not	Available	
7	Certificate from EE – PWD NH as per the format.		

Ayay Pina DGM & ASSET HEAD IndianOil - Adani Gas Pvr.Ltd. Ernakulam, Kerala State.

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EXECUTIVE ENGINEER NOT (9) DAVISION NOVACOUNTIN

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