



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways)

कार्यालय क्षेत्रीय अधिकारी, आंध्र प्रदेश क्षेत्र

Office of the Regional Officer, Andhra Pradesh Region

प्लॉट.क.२१, टीचर्स कॉलोनी, गुरुनानक नगर मार्ग, विजयवाड़ा-५२० ००८. आंध्र प्रदेश

Plot No.21, Teacher's Colony, Gurunanak Nagar Road, Vijayawada-520 008. A.P.

टेली / Tele : 0866-2483910

फैक्स / Fax : 0866-2474496

ई-मेल / E-mail : rovijayawada@nhai.org
nhairovja@gmail.com



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Ref : NHAI/RO-VJA/ OFC/2021/ 456

Date : 26.02.2020

INVITATION OF PUBLIC COMMENTS

Sub : Permission for laying of Optical Fibre Cable (OFC) by M/s. Telesonic Network Ltd. from Km.54/500 to 61/400 (6600 mts) on Tada - Nellore section of NH-5 (New NH-16) - Public Comments - Reg.

The Project Director, PIU - Nellore submitted a proposal of M/s. Telesonic Network Ltd. from Km.54/500 to 61/400 (6600 mts) on Tada - Nellore section in the state of Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22nd November 2016, the Highway Administration will put out the application in the Public Domain for 30 days seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

3. In view of the above, the comments of public, if any, on the above mentioned proposal is invited on below mentioned address.

Regional Officer - Vijayawada,
National Highways Authority of India,
Plot No.21, Teachers' Colony, Gurunanak Nagar Road,
Vijayawada, Andhra Pradesh. Pin: 520 008.
Email: rovijayawada@nhai.org

(R.K. Singh)
Regional Officer
RO - Vijayawada



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways)

कार्यालय क्षेत्रीय अधिकारी, आंध्रप्रदेश क्षेत्र

Office of the Regional Officer, Andhra Pradesh Region

प्लॉट.क.२१, टीचर्स कॉलोनी, गुरुनानक नगर मार्ग, विजयवाड़ा-५२० ००८. आंध्रप्रदेश
Plot No.21, Teacher's Colony, Gurunanak Nagar Road, Vijayawada-520 008. A.P.

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भारतमाला
प्राप्ति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Ref : NHAI/RO-VJA/ OFC/2021/ 457

Date : 26.02.2021

To

The Sr. Technical Director,
NIC, Transport Bhawan,
New Delhi- 110001.

Sub : Permission for laying of Optical Fibre Cable (OFC) by M/s. Telesonic Network Ltd. from
Km.54/500 to 61/400 (6600 mts) on Tada - Nellore section of NH-5 (New NH-16) -
Public Comments - Reg.

Sir,

Please find enclosed herewith the proposal of M/s. Telesonic Network Ltd. from
Km.54/500 to 61/400 of (6600 mts) on Tada - Nellore section in the State of Andhra Pradesh

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R (R) dated 22nd
November 2016, the application along with the recommendation of PD, PIU - Nellore are
enclosed herewith with a request to host the same in the Ministry's website for 30 days
seeking claims and objections (on grounds of public inconvenience, safety and general public
interest), for taking further necessary action.

Yours faithfully,

(R.K. Singh)

Regional Officer
RO - Vijayawada

Encl: As above

Copy to PD, PIU - Nellore - for information



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways)

परियोजना कार्यान्वयन ईकाई, नेल्लोर, आंध्रप्र.

Project Implementation Unit, Nellore, A.P.

जी.एन.टी.रोड, बाईपास रोड जंक्शन के पास, वेदयापालेम, नेल्लोर - ५२४ ००४, आंध्रप्र.

Bypass Road Junction with Old GNT Road, Vedayapalem, Nellore - 524 004. A.P.

टेली / Tele : 0861-2366040

ई-मेल / E-mail : nel@nhai.org,
nhainel@gmail.com



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Ref: 1200/OFC/NHAI/PIU/NELLORE/2019-1047

Dated: 14.12.2020

15.12.2020

To

The Regional Officer,
National Highways Authority of India,
Plot No. 21, Teachers' Colony,
Gurunanak Nagar Road,
Vijayawada - 520 008.

Sir,

Sub: NHAI, PIU, Nellore - (Tada - Nellore section) - Laying of OFC by M/s. Telesonic Network Ltd, from KM. 54/500 to 61/400 of Nellore - Chennai 6600 mts - Approval - Requested - Reg.

- Ref:
1. M/s. Telesonic Netowrks Ltd, Visakhapatnam letter no. TNL/ROW/NEL-CHN/2020-21/20, dated 25.09.2020
 2. This office letter no. 11010/Pkg-I/Cont/NHAI/PIU/NELLORE/2020-680, dated 05.10.2020
 3. M/s. Aarvee Associates Pvt Ltd, Kovur letter no. Aarvee/NHAI/IE/20-21/1043, dated 17.10.2020
 4. This office letter no. 11012/2.0/Vol.1/T-N/NHAI/PIU/NELLORE/2019-762, dated 21.10.2020
 5. M/s. Telesonic Netowrks Ltd, Visakhapatnam letter, dated nil (received this office on 01.12.2020)

With reference to the subject cited above, it is to inform that Telesonic Netowrks Ltd, Visakhapatnam, vide reference 1st cited above, has submitted proposal to this office for Laying of OFC by M/s. Telesonic Network Ltd, from KM. 54/500 to 61/400 of Nellore - Chennai 6600 mts and requested this office for approval of the same.

This office vide reference 2nd cited above, has forwarded the proposal to IE, M/s Aarvee Associates Pvt Ltd, Kovur to examine the proposal as per MoRTH guidelines and furnish necessary comments/ recommendations to this office.

M/s. Aarvee Associates Pvt Ltd, Singaraykonda vide reference 3rd cited above has recommended the above proposal, subject to certain condition (Copy enclosed).

This office vide reference 4th cited above has communicated said observations on the above proposal to the applicant for compliance.

M/s. Telesonic Network Ltd vide reference 5th cited above, has resubmitted the proposal duly attending the observations communicated by this office under reference 4th cited.

In this connection, the proposal submitted by M/s. Telesonic Network Ltd, has been examined in light of MORT&H circular dated 22.11.2016 and it is to inform that:

(Contd.,.....2)

#2#

The applicant has submitted the following :

- (i) Checklist
- (ii) Undertaking for submission of Performance Bank Guarantee @ Rs.100/- per route meter
- (iii) Undertaking for Shifting / Relocation of O.F. Cable (as per Sl.No.5 of Check list)
- (iv) Draft license agreement regarding granting of ROW permission for laying telecom cable / O.F. Cable / ducts Plan showing proposed pipeline crossing.
- (v) Indemnity Bond.
- (vi) Draft Agreement fee of Rs. 1/-
- (vii) Key map
- (viii) Route Strip plans
- (ix) Calculations for amount to be paid to NHAI towards license fee.

As per the submitted plan, the applicant has proposed to lay the optical Fiber Cable with single line by Horizontal Directional Drilling (HDD) method in ROW within 2m utility corridor.

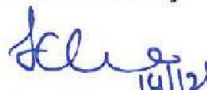
Applicant submitted the typical cross sections of Optical Fiber Cable along and across the highway for HDD with methodology.

The proposal is found to be in order as per MORT&H norms circular RW/NH-33044/29/2015/S&R (R), dated 22.11.2016. The proposal along with the copies of all the above mentioned documents is herewith submitted and it is recommended for approval of the Competent Authority Laying of OFC by M/s. Telesonic Network Ltd, from KM. 54/500 to 61/400 of Nellore – Chennai 6600 mts at earliest please

Thanking You

Encl: As above.

Yours faithfully


10/12/2020
(Sanjay Channa)
Project Director
PIU- Nellore (AP)

CERTIFICATE

1. Proposal submitted by applicant for laying of Optical Fibre Cable has been examined and found to be in order as it satisfies the standard conditions issued vide Ministry Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.
2. It is certified that any other location utility line would be extremely difficult and unreasonable costly and installation of utility line within RoW will not adversely affect the design, stability & traffic safety of highway nor the likely future improvement such as widening of the carriageway, easing of curve, etc.
3. Supervision of the work of laying of utility will be done by the Independent Engineer and it will be ensured that the defects in road portion shall be corrected after laying of utility.
4. It will be ensured that proposed permission is entered in the register of records.



(Sanjay Channa)
Project Director
NHAI, PIU, Nellore



aarvee associates

architects engineers & consultants pvt. ltd.

IE Services during O&M period for 4-lane Tada - Nellore section and Nellore Bypass section of NH-16 & Nandigama - Ibrahimpatnam - Vijayawada section of NH-65 in the state of Andhra Pradesh on BOT (Annuity) basis

nlq
19/10
PSTW

Ref: Aarvee/NHA/IE/20-21/1043

Dated: 17.10.2020

To
Project Director,
Project Implementation Unit,
National Highways Authority of India,
Nellore, Andhra Pradesh.

Sub: Independent Engineer Services during Operation & Maintenance Period for Tada -Nellore (Km.52.800 to Km. 163.600) section of NH-16, Nandigama -Ibrahimpatnam -Vijayawada (Km. 217.000 to Km.265.000) section of NH-65 BOT Project & Nellore Bypass for the stretch from Km 161.034 to Km 178.200 section of NH-16 on BOT (Annuity) basis in the state of Andhra Pradesh -Laying of Optical Fiber Cable by M/S. Telesonic Net Works Ltd.(airtel) from Km.54+500 to Km.61+100 on NH-16 Nellore - Chennai for a total length of 6600 mts. Submission of Comments-Reg.

Ref: 11010/Pkg-I/Cont/NHA/PIU/NELLORE/2020- 680 date: 05.10.2020

Dear Sir,

This has reference to your office letter cited above, where in we have been advised to examine the proposals submitted by the M/S. Telesonic Net Works Ltd.(airtel) for laying of Optical Fiber cable along the National Highway from Km.54+500 to Km.61+100 for a total length of 6600 mts.

On attending to the ground verification, our observations are as under

- 1) The applicant is proposing the laying of Airtel OFC at the edge of the Row with in utility corridor in line with the MORTH Circular guide lines RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 using HDD method.
- 2) The applicant shall plan the activities with out any damages to the existing service road from Km.54+700 to 55+000, from Km.57+480 to 57+960 and from Km.59+930 to 60+300 on LHS.
- 3) The applicant has to execute the works with out any damages to the existing utilities on / under ground.
- 4) The applicant should plan the activities with out any obstruction to free flow of traffic on the highway and should follow the necessary safety measures.

The Permission for laying OFC line can be recommended for the necessary approval of Competent Authority

This is for your kind Information and necessary action.

Assuring our best services at all times.

Thanking you.

Yours sincerely,

W. Prakash Rao

Team Leader cum Highway Engineer

Aarvee Associates Architects Engineers & Consultants Pvt .Ltd.

Copy to:

1. The Engineer, Aarvee Associates Architects Engineers & Consultants Pvt. Ltd for information
2. The COM M/s- STPL- Budhanam - for information

Telesonic Networks Limited,
D.No.10-1-8/3, Vinayagarh Plaza
Near Sampath vinayak temple,
Opp. HSBC Bank
Visakhapatnam, AP 530003, India

www.airtel.in
Call: +9140 4000 9900



To,
The Project Director,
NHAI, PIU, NELLORE.

Sub : Laying of Optical Fiber Cable by M/s. Telesonic Networks Limited. From Km.54/500 to Km.61/100, on NH-5 Nellore-Chennai 6600Mtrs. As shown in attached SLD – Permission Regarding.

Ref: LR No.11012/2.0//Vol.1/T-N/NHAI/PIU/NELLORE/2019-762 Dated:21.10.2020.

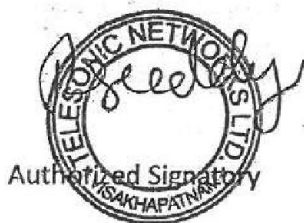
We are submitting additional documents with this letter

1. Rs.1/- DD towards application fee.
2. Revised check list as per NHAI/MORT&H norms.
3. Revised License deed with witness signature signed.
4. Revised Undertaking Letter as per NHAI/MORT&H norms.
5. Calculated license fee and BG enclosed.

We request you to issue demand note in accordance with your policy.

Thanking you,

Yours faithfully,
For Telesonic Networks Limited



Received on	11.12.20
No	By hand 1493
PD	
Manager (T)	
YP/ Site Engineer	
PS/PA	
JAO/ Acct.	

Reg office: bharti crescent, nelson Mandela road, vasanth kunj
Phase II, New Delhi -110 070, India.

Telesonic Networks Ltd.
4th floor, C-Wing, Airtel
Centre Plot no. 16, Udyog
Vihar IV, Gurgaon - 122015
(Haryana)

www.airtel.in
Call +91 124 4222222
Fax +91 124 4248063



Letter No. TNL/ROW/NEL-CHN/2020-21/20.

Telesonic Networks Ltd.
10-1-8/3 Vinayagarh plaza
Near Sampath Vinayak
Temple Visakhapatnam
Andhra Pradesh
530003.

GST - 37AAHCA8010G2ZV

To,
The Project Director,
NHAI, PIU, NELLORE.

Document No. 109/Xc	
No. 1021	
PD	
Manager (T)	
YP/ Site Engineer	
ISO/PA	
JAO/ Asst.	

DT: 25-9-2020

Sub: Laying of Optical Fiber Cable by M/s. Telesonic Networks Limited. From Km.54/500 to Km.61/100, on NH-5 Nellore-Chennai 6600Mtrs. As shown in attached SLD – Permission Regarding.

1. Telesonic Networks Limited (Formerly Bharti Tele-Venture Limited) has been awarded license to install, operate & maintain National Long Distance services within territorial boundaries of India, Vide license agreement No. 10-25/2001-BS-1(01) Dated 29-11-2001 by Government of India, Ministry of Communications, Department of Telecommunications.

We are going to lay underground OFC through duct along the road From Km.54/500 to Km.61/100, on NH-5 Nellore-Chennai 6600Mtrs. As shown in attached SLD. The work should be carried out as per standards, guidelines and policies for laying of OFC including installation of chambers & route markers.

2. We request you to issue demand note in accordance with your policy.

Thanking you,

Yours faithfully,
For Telesonic Networks Limited



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

S.NO	ITEM	INFORMATION/STATUS	REMARKS
1	General Information		
1.1	Name and Address of the Applicant / Agency	Telesonic Networks Limited, D.No.10-1-8/3, Vinayagarh Plaza Near Sampath vinayak temple, Opp. HSBC Bank Visakhapatnam, AP 530003, India	
1.2	National Highway Number	NH-5	
1.3	State	ANDHARA PRADESH	
1.4	Location	Nellore-Chennai	
1.5	Chainage in Km	along the Road LHS From Km.54/500 to Km.61/100.	
1.6	Length in Meters	6,600 meters	
1.7	Width of available ROW		
	(a) Left side from center line towards increase chainage/km direction		
	(b) Right side from center line towards increase chainage/km direction	Varies from 18 to 25 Metrs	
1.8	Proposal to lay the utility		
	(a) Left side from center line towards increase chainage/km direction	Km.54/500 to Km.61/100.	
	(b) Right side from center line towards increase chainage/km direction		
1.9	Proposal to acquire land		
	(a) Left side from center	NA	
	(b) Right side from center	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	Yes	
	If not then where to lay the cable	At The edge of the ROW	
1.11	Details of already Laid services, if any, along the proposed route	NA	
1.12	Number of lanes(2/4 / 6/8 lanes) existing	4 lanes	
1.13	Proposed number of lanes (2 lane with paved shoulders/4 / 6/8 lanes)	NA	
1.14	service road existing or not	Available	
	if yes then which side		
	(a) Left side from center	Km.57/400 to Km.57/900, Km.59/800 to 60/400	
	(b) Right side from center	NA	
1.15	proposed service road		
	(a) Left side from center	NA	
	(b) Right side from center	NA	
1.16	Whether proposal to lay utility is after the service road or between the service road and main carriageway	NA (At edge of Row)	
1.17	Whether carrying of sewage/OFC has been proposed on highway Bridges. If yes, then mention the methodology proposed for the same.	No, Utility (OFC) not proposed on Bridges.	
1.18	Whether carrying of sewage/OFC has been proposed on the parapet/any part of the Bridges. If yes, then mention the methodology proposed for the same.	No, Utility (OFC) not proposed on the parapet/any part of the Bridges.	
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 purposed at the expense of the agency owning the line.	Not Applicable	
	a) Whether the existing drainage structures are allowed to carry the OFC	No	
	b) Is it on a line normal to NH	Yes	
	c) What is the distance of crossing the utility OFC from the existling structures? Crossing shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter	Not Applicable	



[Signature]
Project Director
NHAI, PIU, Nellore,

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	d) The casing pipe (or Conduit pipe in the case of electric cable) carrying the utility line steel, cast iron or reinforced concrete and have adequate strength and large enough to permit ready withdrawal of carrier pipe/cable. Mention on type of casing.	Not Applicable	
	e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as drainage path.	Not Applicable	
	f) The casing/conduit pipe should be as minimum extend from drain to drain in cuts and toe of slope in the fills.	Not Applicable	
	g) The top of the casing/conduit pipe should be at least 1.5 meter below the surface of the road subject to being at least 0.3m below the drain inverts. Mention the proposed details.	Not Applicable	
	h) Mention the methodology proposed for crossing of the road for the proposed sewage/OFC. Crossing shall be by boring method (HDD) (Trenchless Technology), specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Use HDD Methodology	
	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.	Not Applicable	
2	Document/drawing enclosed with the proposal	YES Enclosed	
2.1	cross section showing the size of trench for open trenching method.	YES Enclosed	
	Is it normal size of 1.5m deep X 0.3m wide.	Yes	
	i) Should be greater than 60 cms wider than the outer diameter of the pipe.	Yes	
	ii) Located as close to the extreme edge of the Right of Way as possible but not less than 15m from the center line of the nearest carriageway.	Drawing Enclosed	
	iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting nor shall these be laid over the existing culverts and bridges.	Not Applicable	
	iv) These should be so laid that their top is at least 0.5m below the ground level so as not to obstruct drainage of the road land.	Yes	
2.2	cross section showing the size of pit and location of cable for HDD method.	HDD Cross section enclosed	
2.3	Strip plan/Route plan showing utility/OFC, chainage, width of ROW, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Strip plan showing all the details is enclosed	
2.4	Methodology for laying of OFC.	Enclosed	
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, what is the methodology of refilling of trench.	Yes, Methodology of OFC laying attached.	
	a) The trench width should be at least 30 cms, but not more than 60 cms. Wider than the outer diameter of the pipe.	Open Trench cross section enclosed	
	b) For filling of the trench, Bedding shall be to a depth of not less than 30 cms, It shall consist of granular material, free of lumps, clods, cobbles and graded to yield firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.	Yes	
	c) The backfill shall be completed in two stages-i) side fill to the level of the top of the pipe and ii) overfill to the bottom of the road crust.	Yes	

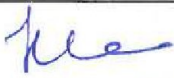


[Signature]
Project Director
NHAI, PIU, Nellore.

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	d) The side fill shall consist of granular material laid in 15 cms. Layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor density. Overfill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.	Yes	
	e) The 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	
	f) The excavation shall be protected by flagman, Signs and barricades and red lights during night hours.	Yes	
	g) If required a diversion shall be constructed at the expense of agency owning the utility line.	Not Applicable	
2.4.2	HDD (horizontal directional drilling) method	Details provided in Methodolog of laying.	
2.4.3	Methodology for laying of the OFC through CD works and method laying. In case where the carrying of OFC on the bridge becomes inescapable.	Yes, Methodology of OFC laying attached.	
3	Draft license Agreement signed by two witness	Enclosed	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No.RW/NH-33044/29/2015/S&R * dated : 22.11.2016.	Enclosed	
4	Whether Performance Bank Guarantee as per Ministry's guidelines issued vide circular No.RW/NH-33044/29/2015/S&R * dated : 22.11.2016 is obtained.	Undertaking for submission of BG has been obtained from M/s Telesonic Networks Limited.	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines.	Confirmation of BG shall be obtained after BG submission by from M/s Telesonic Networks Limited.	
5	Affidavit/undertaking from the Applicant for following is to be furnished.		
5.1	Undertaking for not to damage any other utility , if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	Yes, Enclosed	
5.3	Undertaking for confirming all standard condition of MoRTH/NHAI's guidelines.	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 hameering the traffic.	Yes, Enclosed	
5.6	If any claim is raised by the concessionaire then the same has to be paid by the applicant	Yes, Enclosed	
5.7	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of instalation shifting or repairs or alteration 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 caused to the NH by laing, maintenance or shifting of the utility line will be borne by the applicant agency owning the line.	Yes, Enclosed	
5.9	Undertaking that test of the License deed is as per verbatim of format issued by MoRTH vide circular No.RW/NH-33044/29/2015/S&R * dated : 22.11.2016.	Yes, Enclosed	
5.10	Undertaking that the applicant has obtained various safety clearance from the respective authorities such as Directorate of Electricity, Chief Controller of Explosives, Petroleum and Explosive Safety Organization. Oil Industry Safety Directorate, State/central pollution control board and any other satutory clearances as applicable, before applying to Highway Administration.	Not Applicable as the Utility line proposed is OFC	
5.11	If the Morth/NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the MoRTH/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	




Project Director
NHAI, PIU, Nellore.

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5.12	<p>Certificate form the applicant in the following format</p> <p>i) Laying of OFC will not have any deleterious effects on an of the bridge corripontents and roadway safety for traffic.</p> <p>ii) we do undertake that I/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future 4/6 laning or/any other development.</p>	Yes, Enclosed	
6	Who will sign the agrement on behalf of OFC line agency? Power of Attorney to sign the Agreement is available or not.	Yes, Enclosed	
7	The Project Director shall submit the following Certificates		
7.1	Certificate that the proposal is confirming to all stands conditions issued vide MoRTH circular No.RW/NH-33044/29/2015/S&R * dated : 22.11.2016. Certificate from the PD in the following format:	Enclosed	
7.2	i) "It is certified that an other location of the OFC would be extrenely difficult and unreasonably costly and the installation of OFC within ROW will not adversely affect the Design, stability and traffic safety of the highway nor the likely future improvement such as widening of the carriage way, easing of curve etc." ii) for 6 laning	Enclosed	
	a) Where feasibility is available " I do certify that there will be no hindrance to proposed six laning based on the feasibility report considering proposed structures at the said location".	Enclosed	
	b) In case feasibility report is not available, " I do certify that sufficient ROW is available at the site for accomodating proposed six-laning".	Enclosed	
8	If NHAI section proposed to be taken up by NH on BOT basis- a clause 1a to be inserted i the agrement " the permitted highway on which license has been granted the right lay OFC duct has also been granted as a right of way concessionable under the concession agrement for up gradatio of NH-5 Nellore-Chennai From Km.54/500 to Km.61/100, 6600Mtrs of NHAI(NH-5), on Build, Operate and Transfer Basis] and therefore , the licensee shall honour the same.	NA	
9	Who will supervise the work of laying of Utility pipe line		
	a) On behalf of the applicant.	Area Manger, Telesonic Networks Limited, AP.	
	b) On behalf of MoRTH/NHAI	NHAI PIU, Nellore/IE/Consultant	
10	Who will ensure that the defects in road portion after laying of OFG are corrected and if not corected then what action will be taken		
	a) On behalf of the applicant.	Area Manger, Telesonic Networks Limited, AP.	
	b) On behalf of MoRTH/NHAI	NHAI PIU, Nellore/IE/Consultant	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the Concessionaire?	Telesonic Networks Limited	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)	Yes, Enclosed	
13	If any previous approval is accorded for laying of cable then photocopy of register of records of permissions accorded (as maintained by PD) to be enclosed.	NA	

P.Srinivas Reddy
ROW-Lead

Name, Designation and Signature of the
Authorized representative of applicant



(Name Designation and signature of
Concerned field authority of NHAI/PWD/BRO

**Project Director
NHAI, PIU, Nellore.**

Annexure-III

Enclosure to MOST (Dept. Of RT & H) Letter No.RW/NH-33044/29/2015/S&R(R)

Format for maintaining Records of Right of way permission granted for laying OFC

(To be maintained separately for every NH and State, every PWD Division or equivalent)

1. Name of state : ANDHRA PRADESH
2. Name of Agency (PWD/BRO/NHAI) : NHAI
3. Name of PWD Division or Equivalent : Nellore
4. NH Number : NH-5

Location (chainage in KM)	Left or Right side of NH (towards increasing chainage km direction)	Section and reach	Kind of service	Name of licensee and contract address	Date of signing of agreement	Date of Validity of agreement	Date of last inspection agreement of site	Any deviation from MoRTH standard norms	Remarks
From Km.54/500 to Km.61/100, on NH-5 Nellore- Chennai 6600Mtrs.	Right	Nellore-Chennai	OFC (Fiber)	M/s. Telesonic Networks Limited ID No.10-1- 8/3, Vinayagarh Plaza Near Sampathvinayak temple, Opp. HSBC Bank Visakhapatnam, AP 530003, India				NO	



Methodology of Laying of OFC - Open Trenching & Trenchless (HDD)

Trenching Method:

Laying of Optical Fiber Cable along Nellore-Chennai along the mentioned route will be done by conventional method/manual and Machine Trenching method. The dimension of the trench will be 165 cms in depth and 45 cms in width. The Cable laying work will be carried out in phased manner in such a way that after the HDPE / Protection ducts are laid for Optical Fiber Cable, the trench will be reinstated to its original surface.

Trench Filling Method:

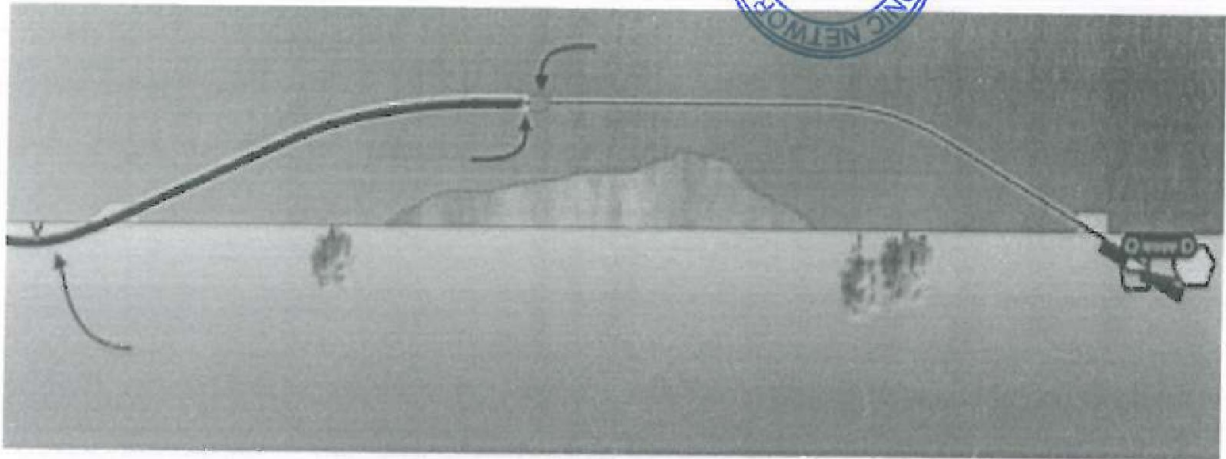
As a measure of abundant precaution against future settlement and other allied problems, only selected granular material will be used in filling reinstatement of trenches. The entire depth of cutting will be filled either with coarse sand or the excavated material, compacted in layers not exceeding 75 mm when compacted by ordinary power roller /plate compacter. Special Compaction equipment like plate compacter, frog hammer will be utilised besides ordinary power roller.

Trenchless Crossing: HDD Method

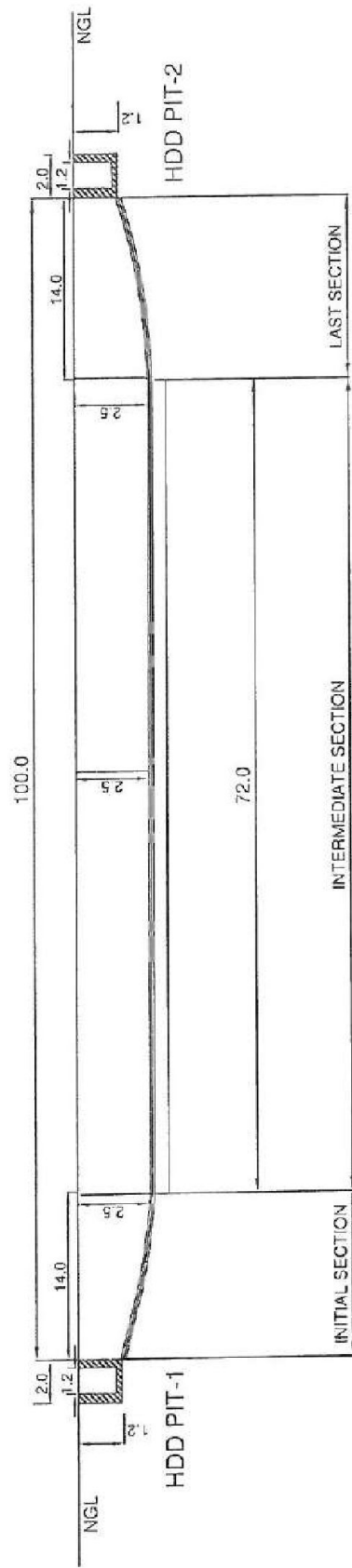
Horizontal Directional Drilling (HDD) is a technique for installing product pipes, including utility lines, below ground using a surface-mounted drill rig that launches and places a drill string at a shallow angle to the surface and has tracking and steering capabilities. In recent years HDD has been the preferred methodology due to several government policies conducive to infrastructure growth.

All crossing on the Route will be done by Horizontal Directional Drilling method without disturbing the road surface.

A Typical HDD Methodology is shown below:



Typical Cross Sectional For HDD



Bore Dia 100mm

