

Government of India

Ministry of Road Transport & Highways

Regional Office, Vijayawada

Door no. 38-2-3/2, Gorle dalapanna Veedhi, Near American Hospital, Punnammithota
Vijayawada-520010. Tele: 0866-2970220; Fax: 0866-2571985

Dated: 18.02.2021

Invitation of Public Comments

Sub: Proposal for Permission for laying Optical Fibre cable (OFC) by M/s Vindhya Telelinks Limited from km 73/525 to km 84/976 (LHS) of NH-544D (Ananthapuramu-Tadipatri-Bogasamudramu section) and crossing at km 84/876 from LHS to RHS for a total length of 11.351kms in Kurnool District in the State of Andhra Pradesh - reg.

Please find enclosed herewith the proposal in accordance with Ministry's latest guidelines dated 22.11.2016 forwarded by Chief Engineer(R&B), NH & CRF, AP vide letter dated 07.01.2021 for laying Optical Fibre cable (OFC) by M/s Vindhya Telelinks Limited from km 73/525 to km 84/976 (LHS) of NH-544D (Ananthapuramu-Tadipatri-Bogasamudramu section) and crossing at km 84/876 from LHS to RHS for a total length of 11.351kms at Thimmaneyunepeta, Itikala, Kolimigundla Villages in Kurnool District in the State of Andhra Pradesh by the Horizontal Directional Drilling (HDD) method.

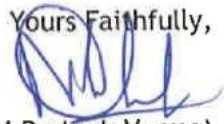
2. As per the guidelines, issued by the Ministry vide Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.16, the proposal for Highway crossing permission along & across National Highways shall be put out in the public domain for 30 days for seeking claims and objections on grounds of public inconvenience, safety and general public interest.

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

The Regional Officer,
Ministry of Road Transport and Highways,
Gorle Dalappana Veedhi, Near American Hospital,
Punnam Thota, Vijayawada - 520010
Email id: romorthvijayawada@gmail.com.

Encl: As above

Yours Faithfully,



(Nakul Prakash Verma)
Executive Engineer,
For Regional Officer, MoRTH, Vijayawada

Copy to:

- 1) Senior Technical Director, NIC for uploading on the Ministry's website.
- 2) The Chief Engineer(R&B), NH & CRF, AP.
- 3) The M/s Vindhya Telelinks Limited, Plot no.56, Ishaq colony, Opp: Syndicate Bank, Picket Branch, Wellington road, Near AOC Center, Marredpally, Secunderbad - 500015, Telangana.

CERTIFICATE


- 1) signed has examined the proposal of the applicant for laying optical fiber along the National Highway-544-D(Ananthapuramu-Tadipatri-Bogasamudramu Section) NH - 544-D along the road from Under Km 73/525-84/976(LHS) and Acrossing at 84/876 from LHS to RHS for total length of 11.351 Kms, in the Kurnool District of AP under the limits of R&B NH Division Kurnool I the state of Andhra Pradesh and confirm that all standard conditions issued vide Ministry Circular No.RW/NH-33044/29/2015/S& Dt:22.112016 has been followed
- 2) It is certified that any other location of 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 the highway nor the likely future improvement such as widening of the carriageway casing of curve etc.,
- 3) I will ensure supervision of the work of lying of utility and ensure that the defects in the road portion after lying of utility are corrected.
- 4) I will notify/ forfeit the BG for claims for damages done/ disruption in working, if any
- 5) I will ensure the proposed permission in the entered in the register of records.
- 6) The record of previous approval, if any has been considered and the copy same is enclosed with the proposal.

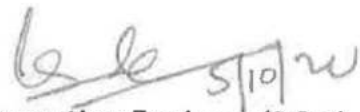

Executive Engineer(R&B)
APRDC Division, Kurnool


Superintending Engineer
R & B) NH Circle, Anantapuramu

CERTIFICATE

- 1) Under signed has examined the proposal of the applicant for laying optical fiber along the National Highway-544-D(Ananthapuramu-Tadipatri-Bogasamudramu Section) NH - 544-D along the road from Under Km 73/525-84/976(LHS) and Acrossing at 84/876 from LHS to RHS for total length of 11.351 Kms, in the Kurnool District of AP under the limits of R&B NH Division Kurnool I the state of Andhra Pradesh and confirm that all standard conditions issued vide Ministry Circular No.RW/NH-33044/29/2015/S& Dt:22.112016 has been followed
- 2) It is certified that any other location of 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 the highway nor the likely future improvement such as widening of the carriageway casing of curve etc.,
- 3) I will ensure supervision of the work of laying of utility and ensure that the defects in the road portion after laying of utility are corrected.


Assistant Engineer (R&B)
APRDC Section-111
Kurnool


Dy. Executive Engineer(R&B)
NH Sub division, Kurnool

CHECK - LIST

Accommodation of Public and Industrial Utility Services along and across National Highways by Private Parties under Industrial Utility.

Relevant Circulars

- Ministry Circular No. RW/NH-33044/29/2015/S&R(R), Dated: 22.11.2016

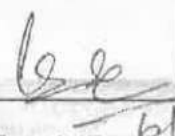
Check list for getting approval for laying of Optical Fibre Cable on NH land

Sl. No.	Item	Information/ Status	Remarks
1	General Information	Permission for laying Optical Fibre Cable across National Highway No-544 D at Thimmaneyunepeta, Itikala, Kolimigundla Villages, Kurnool District, in the state of Andhra Pradesh.	
1.1	Name and Address of the Applicant / Agency	M/s. Vindhya Telelinks Ltd, Plot No. 56, Ishaq Colony, Opp. Syndicate Bank, Picket Branch, Wellington Road, Marredpally, Secunderabad-500015, Telangana state.	
1.2	National Highway Number	NH-544 D	
1.3	State	Andhra Pradesh	
1.4	Location	Thimmaneyunepeta, Itikala, Kolimigundla Villages, Kurnool District, in the state of Andhra Pradesh.	
1.5	(Chainage in km)	Km 73/525 - 84/976 (LHS) and Acrossing at 84/876 from LHS to RHS (Ananthapur - Tadipatri - Bogasamudram Section)	
1.6	Length in Meters	11,351.00 Mts	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage (km) direction	16.0 Mtrs	
	(b) Right side from center line towards increasing chainage (km) direction	-----	
1.8	Proposal to lay the Utility Cable		
	(a) Left side from center line towards increasing chainage (km) direction	Yes, as Per Drawing attached	
	(b) Right side from center line towards increasing chainage (Km) direction	15.0 mtr	
1.9	Proposal to acquire land		
	(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	YES	
	If not then where to lay the cable	At the edge of RoW	
1.11	Details of already laid services, if any, along the proposed route		By EE
1.12	Number of existing lanes (2/4 / 6/8 lanes).	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	NA	
	If yes then which side		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	



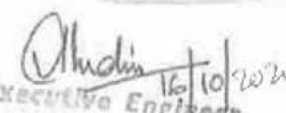
5/10/20
Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

16/10/2020
Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL

1.15	Proposed Service road		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay Cable is after the service road or between the service road and main carriageway	NA	
1.17	Whether carrying of Electrical Poles 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 Poles 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 built for that purpose at the expenses of the agency owning the line	YES Passing Optical Fibre Cables with required Clearances for safety of users	
	(a) Whether existing drainage structures are allowed to carry utility Poles	NA	
	(b) Is it on a line normal to NH	Yes	
	(c) What are the distances 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.	NA	
	(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. Mention type of casing.	NA	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	NA	
	(f) The casing/conduit pipe should, as minimum extend from drain in cuts and toe of slope in the fills.	NA	
	(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.	Applicable	
	(h) Mention the methodology proposed for crossing of road for proposed Cable. Crossing shall be by boring method (HDD) (Trench-less Technology), specially. Where the existing road pavement is of cement concrete or dense bituminous concrete type.	Using HDD Methodology	
	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.		
2	Document/ Drawing to be enclosed with the proposal	YES Enclosed	 Deputy Executive Engineer N.H. Sub-Division, Kurnool



SRM/S/10/20
ASSISTANT ENGINEER (R&B)
A.P.R.D.C. Section - III
KURNOOL


Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL

2.1	<p>Cross section showing the size of trench for open trenching method. (Is normal size of 1.65m deep x 0.5m wide)</p> <p>(i) Should not be greater than 60 Cm wider than the outer diameter of the outer pipe</p> <p>(ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the center - lines of the nearest carriageway</p> <p>(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 exiting culverts and bridges.</p> <p>(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.</p>	<p>Enclosed</p> <p>Yes</p> <p>Drawing Enclosed</p> <p>NA</p> <p>YES</p>	
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 the utility Cable. Chainage. Width of ROW. Distance of proposed Cable 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 the utility pipe line.	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 the trench	Yes, methodology of OFC laying attached.	
	(a) The trench width should be at least 30 cm. but not more than 60 cm 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 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	
	(c) The back fill shall be completed in two stage (I) side fill to the level of the top of the pipe and (II) overfill to the bottom of the road crust.	Yes	
	(d) The side-fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical 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.	Yes	



S. Ramesh 10/10/20
Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

Alindia 10/10/20
Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL.

	(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, to avoid the formation of a dip at the trench.	Yes	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line	NA	
2.4.2	Horizontal Directional Drilling method	Details provided in methodology of laying	
2.4.3	Methodology for laying of Cable through CD works and method of laying. In cases where the carrying of gas pipe line on the bridge becomes inescapable.	NA	
3	Draft License Agreement is signed by two witnesses	Enclosed	
3.1	The license fee estimated as per Ministry's circular No. RW/NH-33044/29/2015S&R(R) dated 22.11.2016	Enclosed	
4	Whether performance Bank Guarantee as per ministry's Circular no. RW/NH-33044/29/2015S&R(R) dated 22.11.2016 is obtained.	Undertaking for submission of BG has been obtained from M/s Vindhya Telelinks Ltd	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAJ guidelines	Confirmation of BG shall be obtained after BG submission by M/s Vindhya Telelinks Ltd	
5.	Affidavit / Undertaking from the Applicant	YES, Enclosed	
5.1	Undertaking for Not to Damage any other utility, if damaged then to pay the losses either to NHAJ or to the concerned agency	YES, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAJ.	YES, Enclosed	
5.3	Undertaking for Confirming all standard condition of Ministry Circulars and NHAJ's guidelines.	YES, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims	YES, Enclosed	
5.5	Undertaking for management 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 paid by the applicant.	YES, Enclosed	
5.7	Undertaking that prior approval of the NHAJ shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the utility located in the National Highway right-of-ways.	YES, 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)	YES, Enclosed	



S.R. Ramesh
5/10/20
Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

Dep. Ex. Eng. N.H. Sub-Division
Kurnool
5/10/20
Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL

5.9	If the MoRTH/NHA 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/NHA at the cost of the agency owning the utility line within a reasonable time (not exceeding 90 days) of the intimation given.	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 statutory clearances as applicable, before applying to Highway administration.	Not applicable as the utility line proposed is OFC	
5.11	If the MoRTH/NHA 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/NHA at the cost of the agency owning the utility line within a reasonable time (not exceeding 90 days) of the intimation given.	YES, Enclosed	
5.12	Certificate from the applicant in the following format, i) Laying of OFC will not have any deleterious effects on any of the bridge components and roadway safety for traffic. ii) We do undertake that i/we relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time as will be stipulated by NHA for future six laning or any other development.	Enclosed Enclosed	
6	Who will sign the agreement on behalf of cable line agency?	M/s Vindhya Telelinks Ltd	
	Power of Attorney to sign the agreement is Available or not	Yes	
7	The EE/PD, will submit the following Certificate.		
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	YES, Enclosed	
7.2	Certificate from the EE/PD, in the following format i) It is certified that any other location of the OFC would be extremely 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 etc., ii) for 6 laning a) Where feasibility is available "I do certify that the no hindrance to proposed six laning based on the feasibility report considering proposed structures at the said location.	Enclosed/ Not Enclosed Enclosed/Not Enclosed	



S. Ravi S/D/20
Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

Enclosed/Not Enclosed
Deputy Secy
N.H. Sub
6/10/20
16/10/2020
A.P.R.D.C. Division
KURNOOL

	b) in case feasibility report is not available "I do certify that sufficient RoW is available at site for accommodating proposed six-laning",	Enclosed/Not Enclosed	
8	IF NH Section proposed to be taken up by NHAI on BOT basis a clause is to be inserted in the agreement. "The permitted Highway on which licensee has been granted the right to lay cable/ducts has also been granted as a right of way to the concessionaire under the concession agreement for up gradation of (_____ section from Km _____ to Km _____, of NH No. _____ on build, Operate and transfer basis) and therefore the licensee shall honor the same.	NA	
9	Who will supervise the Work of laying of Cables. (a) On behalf of the Applicant (b) On behalf of MoRTH/NHAI	Vindhya Telelinks Ltd Executive Engineer R&B) NH Division, Kurnool	
10	Who will ensure that the defects in road portion after of laying OFC are corrected and if not corrected then what action will be taken. (a) On behalf of the Applicant (b) On behalf of NHAI / MORTH	Vindhya Telelinks Ltd Executive Engineer R&B) NH Division, Kurnool	
11	Who will pay the claims for damages done/ disruption in working of Concessionaire if asked by the Concessionaire On behalf of the Applicant	M/s Vindhya Telelinks Ltd	
12	A certificate from EE/PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)	Enclosed	
13	If any previous approval is accorded for laying of Electricity Poles then Photocopy of register of records of permissions accorded (as maintained by EE/PD) be enclosed	NA	

Name Designation and signature of the authorized representation of applicant



S. Ramesh
5/10/20
Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

Name Designation and signature of the concerned field authority of NHAI/PWD

Deputy Executive Engineer
N.H. Sub-Division, Kurnool

Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL



LEGEND:

- PROPOSED OFC ROUTE
- BT ROAD
- CENTER LINE OF CARRIAGEWAY
- BOUNDARY (ROW)
- BRIDGE / CULVERT

ANANTHAPUR - TADIPATRI - BOGASAMUDRAM ROAD (NH-544D)

(Km:73/525 TO Km: 76/461)

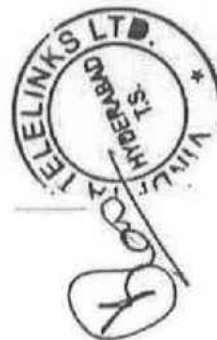
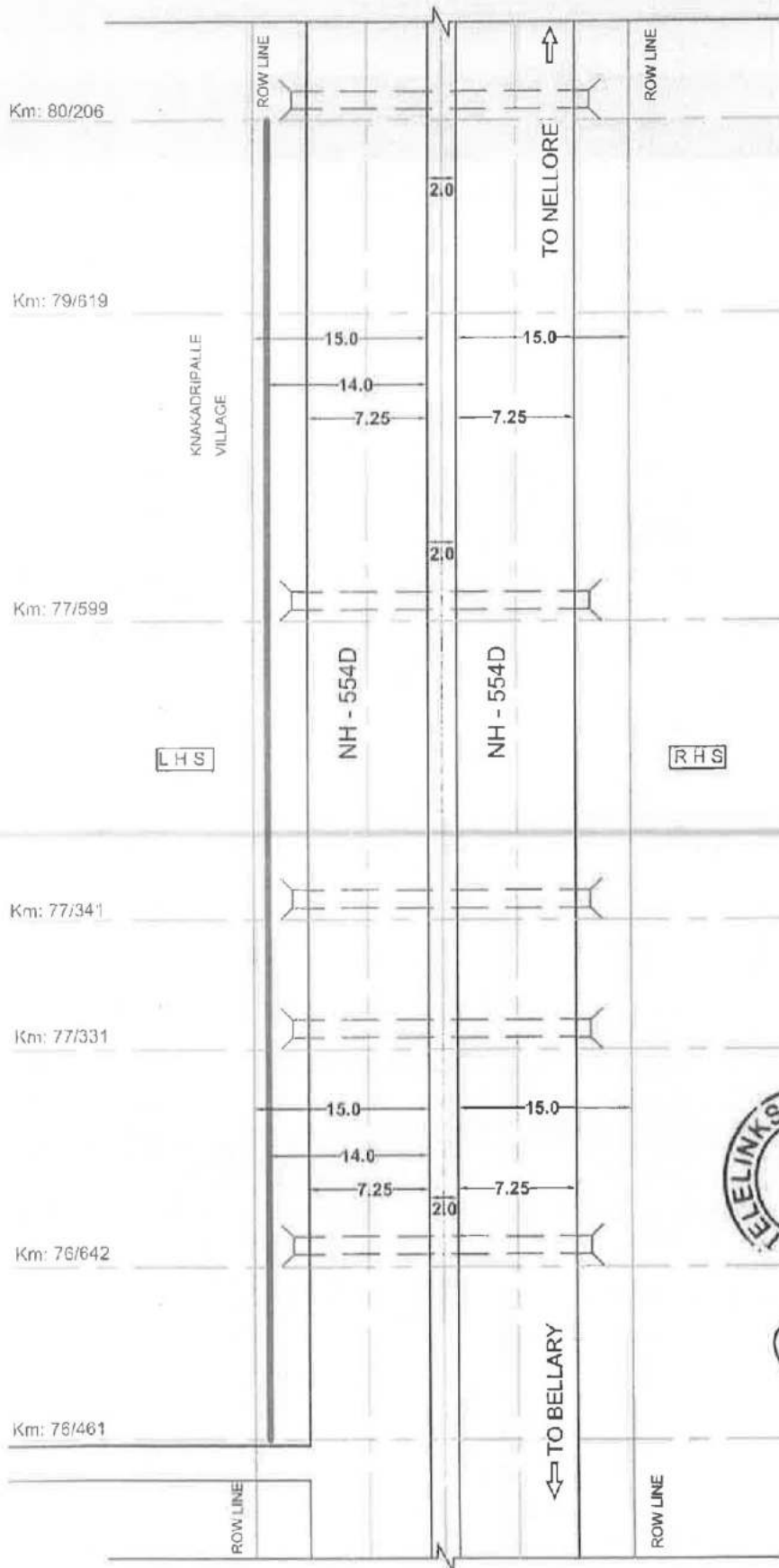
APPLICANT:

Vindhya Telelinks Limited.
Udayog Vihar, P.O. Bhodhara, Barga (M.P.) 486006.

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 2.936 Km
3. SCALE - NTS

REGISTERED ENGINEER
(REGD) A.P.R.D.C. Division
KURNOOL



LEGEND:

- - PROPOSED OFC ROUTE
- - BT ROAD
- - CENTER LINE OF CARRIAGEWAY
- - BOUNDARY (ROW)
- - BRIDGE / CULVERT

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 3.745 Km

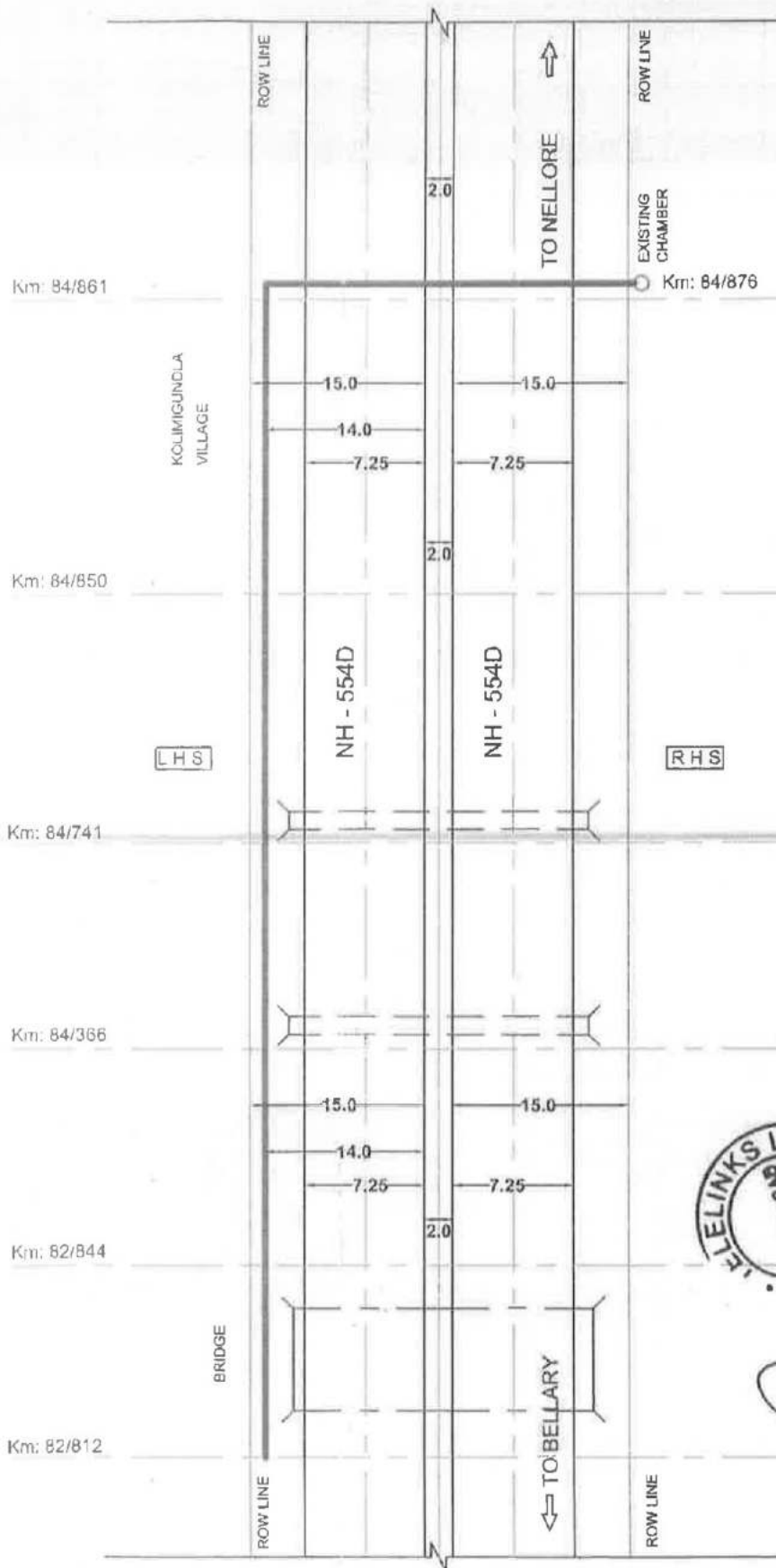
ANANTHAPUR - TADIPATRI - BOGASAMUDRAM ROAD (NH-544D)
(Km: 76/461 TO Km: 80/206)

APPLICANT:

Vindhya Telelinks Limited.
Udyog Vihar, P.O. Chitapatra, Rayachoti, Nellore
N.H. Sub-Division, Kurnool

Executive Engineer
(B8B) A.P.R.D.C. Division
KURNOL

SCALE: 1:1000
Executive Engineer
(B8B) A.P.R.D.C. Division
KURNOL



LEGEND:

- - PROPOSED OFC ROUTE
- - BT ROAD
- - CENTER LINE OF CARRIAGEWAY
- - BOUNDARY (ROW)
- - BRIDGE / CULVERT

ANANTHAPUR - TADIPATRI - BOGASAMUDRAM ROAD (NH-544D)

(Km: 82/812 TO Km: 84/876)

APPLICANT:

Vindhya Telelinks Limited.
 Udyog Vihar, P.O. Chorhata, Rewa (M.P.) 486006.

iii

NOTES:

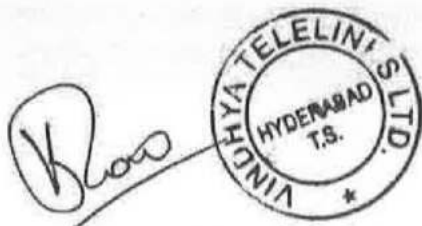
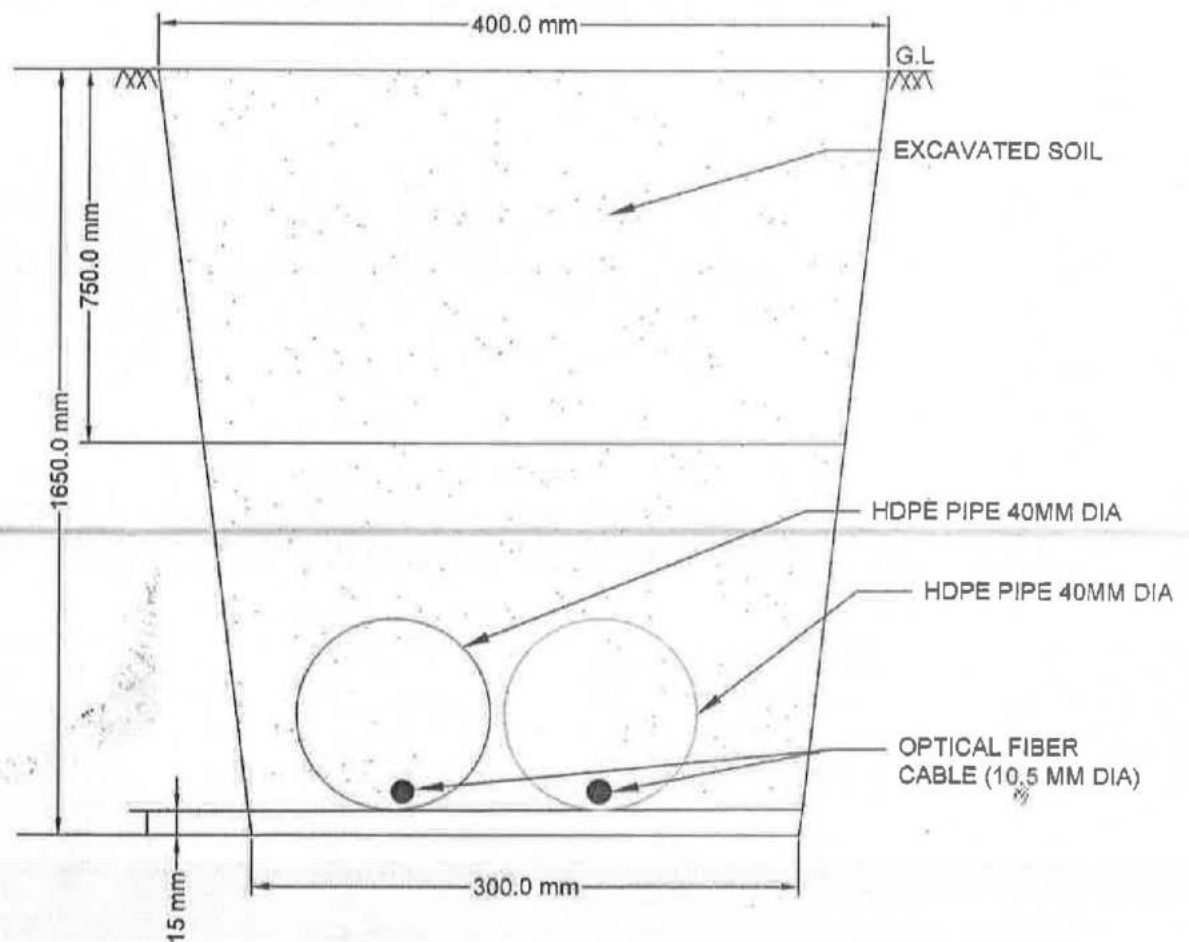
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH 2.064 Km
3. SCALE - NTS

Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL



Assistant Engineer
A.P.R.D.C. Section - III

CROSS SECTION OF THE TRENCH

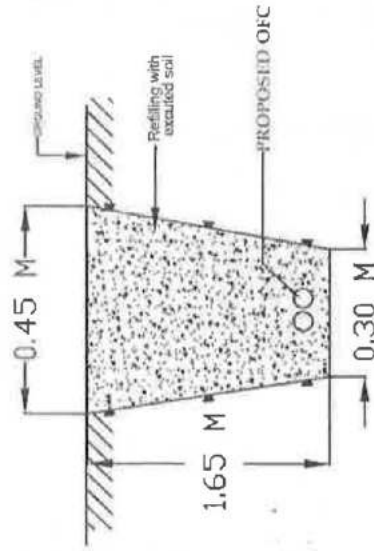


VINDHYA TELELINKS LIMITED

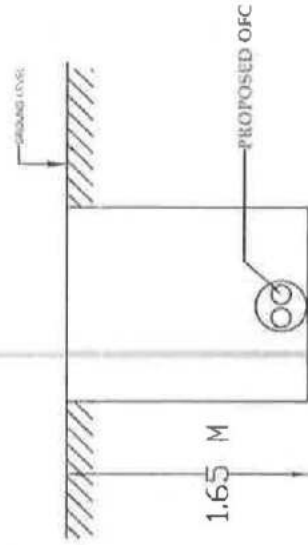
Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

Deputy Executive Engineer (R&B)
N.H. Sub-Division, Kurnool

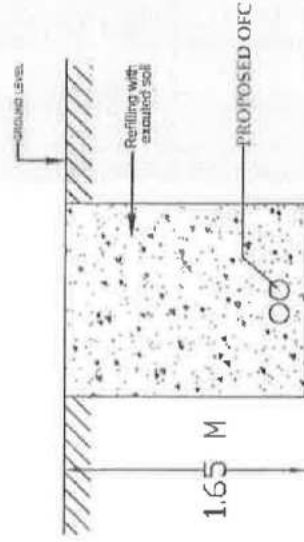
Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL



LAYING OFC IN OPEN
TRENCH METHOD



LAYING OFC IN
HDD METHOD



LAYING OFC IN
HDD METHOD



APPLICANT:



Vindhya Telelinks Ltd.

Vindhya Telelinks Ltd.
Executive Engineer

(A.P.R.D.C. Division
KURNOOL

ROUTE NAME:

Assistant Engineer (A.P.R.D.C. Section - in
KURNOOL

LICENSE FEE CHARGES									
S No	Description	No	Measurements			Quantity	Rate	Per	Amount
			L	B	D	Sq.m	per Sq.m		
1	2	3	4	5	6	7	8	9	10
1	Name of the work: Towards License fee for Laying of O.F. Cable by from Km 73/525 - Km 84.876 (LHS) and acrossing at 84.876 from LHS to RHS for a total length of 11.351 Kms on (Ananthapuram - Tadipatri - Bogasamudram Section) NH - 544D by M/s Vindhya Telelinks Limited.								
1	Km 73.525 to 76.725	1	3200	0.08	--	256.0	64.247	Sqm	16,447.32
2	Km 76.725 to 81.225	1	4500	0.08	--	360.0	98.842	Sqm	35,583.14
3	Km 81.225 to 84.876	1	3651	0.08	--	292.1	98.842	Sqm	28,869.79
4	Crossing at 84.876	1	32	0.10	--	3.2	98.842	Sqm	316.29
									81,216.55
	Licene Fee (Rs/Sq.m/Month) = $\frac{81216.5}{10 \times 12}$						=		676.80
	License Fee for 5 years = $5 \times 12 \times$						676.8046	=	40,608.27
	Rounding off								2.00
	Total								40,610.00
	or Public utility 33% of industrial Utilities as per point no.5 of MORTH guide lines vide letter No.RW/NH-33044/29/2015/S&R® Dated: 22nd Nov ,2016								13,401.00
	(Rupees Thirteen Thousand Four Hundred and One only)								

PERFORMANCE GUARANTEE CHARGES									
S No	Description	No	Measurements			Quantity	Rate	Per	Amount
			L	B	D	Mtrs	per RM		
1	2	3	4	5	6	7	8	9	10
1	Km 73.525 to 84.876	1	11351	--	--	11351			
2	Crossing at 84.876	1	32	--	--	32			
						11383	100	RM	11,38,300
	Performance Guarante Charges						=	Rs.	11,38,300
	(Rupees Eleven Lakhs Thirty Eight Thousand Three Hundred only)								



S. Ravi
5/10/20

Assistant Engineer (R&B)
A.P.R.D.C. Section - III
KURNOOL

Deputy Executive Engineer
N.H. Sub-Division, Kurnool

Executive Engineer
(R&B) A.P.R.D.C. Division
KURNOOL.