

No. RO/VJA/Misc.24/B/NH-67/Sl.no.103/1493

**Government of India
Ministry of Road Transport & Highways
Regional Office, Vijayawada**

Door No.41-29-45A, 3rd & 4th floors, MORTH/NHAI Buildings, Ranigarithota,
Near Kanakadurga Varadhi, Krishnalanka, Vijayawada-520013. Tele: 0866-2571985

Dated: 14/03.2022

Invitation of Public Comments

Sub: Proposal for Permission for laying underground Optical Fibre Cable (OFC) along the NH-67 road from design ch. km. 375/740 to km 396/600 (RHS) and across the NH-67 road at km 390/400 (New chainge km. 396/600) of AP Karnataka Border to Gooty section and thereafter continuous in left over reach i.e. from km 390/400 to km 393/850 (old Chainage) for a total length of 24310mtrs in Ananthapuramu 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 04.02.2022 for laying underground Optical Fibre Cable (OFC) along the NH-67 road from design ch. km. 375/740 to km 396/600 (RHS) and across the NH-67 road at km 390/400 (New chainge km. 396/600) of AP Karnataka Border to Gooty section and thereafter continuous in left over reach i.e. from km 390/400 to km 393/850 (old Chainage) for a total length of 24310mtrs in Ananthapuramu District, in the State of Andhra Pradesh; HDPE ducts laid by Open trench method and OFC ducts laid by 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,
Door No.41-29-45A, 3rd & 4th floors,
MORTH/NHAI Buildings, Ranigarithota,
Near Kanakadurga Varadhi, Krishnalanka,
Vijayawada-520013, Email id: romorthvijayawada@gmail.com.

Yours Faithfully,

Encl: As above


(Venkataiah Mekala)
Sr. Technical Assitant,
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 Executive Engineer(R&B), NH Division, Ananthapuramu.

**GOVERNMENT OF ANDHRA PRADESH
ROADS AND BUILDINGS DEPARTMENT**



From:
Sri V. Ramachandra, M.Tech,
Chief Engineer(R&B)
National Highways & CRF,
State HoD Offices Building,
MG Road,
Vijayawada - 520010

To:
✓ The Regional Officer,
MoRT&H, 4th Floor,
Near Kanaka Durga Varadhi,
Rani Gari Thota, KrishnaLanka,
Vijayawada - 520 013.

Lr.No. OFC/NH67/KM375.740 to 393.850/EENH/DEE1/AEE2/2022,Dt.04.02.2022

Sir,

Sub: R&B Department - National Highways - Request for Permission to lay underground Optical Fibre Cable (OFC) on NH67 from KM375/740 to 396/600 (RHS) along Design Chainage of NH67 and a Road Crossing @ KM390/400 (old Chainage i.e., 396/600 of new chainage) of NH67 road (AP Karnataka border to Gooty Section) and thereafter continues in leftover reach i.e., from KM390/400 of KM393/850 (Old Chainage) for a total length of 24310mts. in Anantapuramu district of Andhra Pradesh - Proposals furnished - Permission requested - Reg.

- Ref:
1. Ministry circular no. RW/NH-33044/29/2015/S&R®, dated 22.11.2016
 2. RO/MoRT&H/VJA, Ir. no. RO/VJA/Misc24BAccess/Utility/7, dated 13.04.2017.
 3. SE/NH/ATP, Ir. No. NH6/Road Cutting/Vindhya Telelinks/SENH/ATP/JTO/2021-22, dated 21.01.2022.

Adverting to the subject cited, it is to furnish that M/s Vindhya Telelinks Ltd., Secunderabad have applied for grant of permission for laying Optical Cable Fibre on NH67 from KM375/740 to 396/600 (RHS) along Design Chainage of NH67 and a Road Crossing @ KM390/400 (old Chainage i.e., 396/600 of new chainage) and thereafter continues in leftover reach i.e., from KM390/400 of KM393/850 (Old Chainage) for a total length of 24310mts.

The license fee and Performance Bank Guarantee fee for the above work are as below:

- License fee – Rs.57,590.00
- Performance Bank Guarantee fee: Rs.24,31,000.00

Further, the following are herewith furnished:

- The proposed OFC is located from KM375/740 to 396/600 (RHS) along Design Chainage of NH67 and a Road Crossing @ KM390/400 (old Chainage i.e., 396/600 of new chainage) and thereafter continues in leftover reach i.e., from KM390/400 of KM393/850 (Old Chainage) for a total length of 24310mts. of NH67.
- Total length of proposed OFC is 24.250KMs along the road and 0.060KMs across the road.
- There is one road crossing involved.
- The carriageway of the said stretch is 4Lane divided c/w.
- The existing ROW is 45.00mts.
- The proposed OFC is located at 22.50mts. from centreline of the carriageway.
- The firm has proposed that OFC shall be laid through 40mm HDPE ducts (2Nos.) placed side by side at a depth of 1.65mts. below GL.
- At existing culverts / bridges, agency has proposed their own arrangements for crossing the drainage works from below the bed and has not proposed any utility pipeline over the bridges / culverts.
- HDPE ducts shall be laid by Open Trench method.

The firm has submitted the checklist and all the undertakings required to be submitted for according permission and approval for laying OFC as stipulated vide references 1st and 2nd cited. A copy of the documents submitted by the firm is herewith furnished.

Therefore permission may be accorded for laying OFC cable from KM375/740 to 396/600 (RHS) along Design Chainage of NH67 and a Road Crossing @ KM390/400 (old Chainage i.e., 396/600 of new chainage) and thereafter continues in leftover reach i.e., from KM390/400 of KM393/850 (Old Chainage) of NH67 so as to enable them to commence the laying of Optical Fibre Cable.

Encl.: booklets -2nos.

Yours sincerely,


for **Chief Engineer (R&B)**
National Highways & CRF
-4/9/22

Copy to

The Superintending Engineer(R&B), NH Circle, Vijayawada.

CHECK - LIST

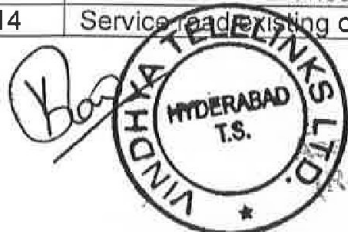
Accommodation of Public and Industrial Utility Services along and across National Highways by Private Parties under Industrial Utility.

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

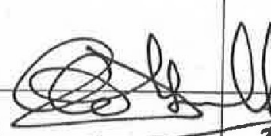
| Sl. No. | Item | Information/ Status | Remarks |
|---------|--|---|---------|
| 1 | General Information | Permission for laying Optical Fibre Cable along National Highway No-67 (Old -No: NH - 63) at Donekal, Gadekallu, Hanchanahal, Kana kondla Guntakal villages, Ananthapuram District, in the state 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 - 67 (Old No.: NH - 63) | |
| 1.3 | State | Andhra Pradesh | |
| 1.4 | Location | Donekal, Gadekallu, Hanchanahal, Kana kondla Guntakal villages, of AP Karnataka Border - Gooty Section of Ananthapuram District, in the state of Andhra Pradesh. | |
| 1.5 | (Chainage in km) | along the road from Km 375/740 - 396/600 (Old Chainage Km 390/400) (RHS) and from Km 390/400 (New Chainage Km 396/600) - Km. 393/850 (RHS), A crossing between Km 390/400 (New Chainage 396/600) - Km 390/460, for a total length of 24.310 Kms of Karnataka AP Border - Guntakal Section | |
| 1.6 | Length in Meters | 24,310.00 Mts | |
| 1.7 | Width of available ROW | | |
| | (a) Left side from center line towards increasing chainage (km) direction | ----- | |
| | (b) Right side from center line towards increasing chainage (km) direction | Max : 22.5 Mtrs Min : 12.50 Mtrs | |
| 1.8 | Proposal to lay the Utility Cable | | |
| | (a) Left side from center line towards increasing chainage (km) direction | ----- | |
| | (b) Right side from center line towards increasing chainage (Km) direction | Max : 22.5 Mtrs Min : 12.50 Mtrs | |
| 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 | |



C. Raghav
Assistant Executive Engineer
(R&B) NH Section, GOOTY.
19/01/22

Laxmipathy
Deputy Executive Engineer
(R&B) NH Sub-Division, Tadipatri.
19/01/22

Executive Engineer (R&B)
N.H. Division, Anantapuramu.


| | | | |
|------|--|-----------------|---|
| | (a) Left side from center line | NA | |
| | (b) Right side from center line | NA | |
| 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 | N/A | |
| 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. | N/A | |
| 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 | |
| | (a) Whether existing drainage structures are allowed to carry utility Poles | No | |
| | (b) Is it on a line normal to NH | Yes | |
| | (c) What is 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. | HDPE Pipe | |
| | (e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path. | Yes | |
| | (f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills. | Yes | |
| | (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 0.3 m below the drain <u>invert</u> . Mention the proposed details. | Yes | |
| | (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 exiting road pavement is of cement concrete or dense bituminous concrete type. | HDD Method | |
| | 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. | NA | |
| 2 | Document/ Drawing to be enclosed with the proposal | YES Enclosed |  Executive Engineer (R&B) N.H. Division, Anantapuramu. |




C. Raju
19/01/22
Assistant Executive Engineer
(R & B) NH Section, GOOTY.

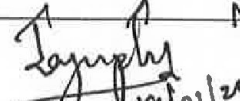
Laxmipathy
19/01/22
Deputy Executive Engineer
(R & B) NH Sub-Division, Tadipatri.

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| 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, Yes</p> <p>NA</p> <p>Yes, 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 | <p>Open trenching method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type)</p> <p>If yes, what is the methodology of refilling the trench</p> | Yes, methodology of OFC laying attached. | |
| | <p>(a) The trench width should be at least 30 cm. but not more than 60 cm wider than the outer diameter of the pipe.</p> <p>(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.</p> | <p>Open trench cross section enclosed</p> <p>Yes</p> | |
| | (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 | |


Executive Engineer (R&B)
N.H. Division, Anantapuramu.




Assistant Executive Engineer
NH Section, GOOTY,


Deputy Executive Engineer
(R & B) NH Sub-Division, Tadipatri.

| | | | |
|-------|--|--|--|
| | (e) The road crust shall be built to the same strength as the exiting 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 | Yes | |
| 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. | Yes | |
| 4.1 | Confirmation of BG has been obtained or not as per MoRTH/NHAH guidelines | Yes- Will be submitted after approval from competent authority | |
| 5. | Affidavit / Undertaking from the Applicant | | |
| 5.1 | Undertaking for Not to Damage any other utility, if damaged then to pay the losses either to NHAH or to the concerned agency | YES, Enclosed | |
| 5.2 | Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAH. | YES, Enclosed | |
| 5.3 | Undertaking for Confirming all standard condition of Ministry Circulars and NHAH'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 NHAH 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 expenditure if any incurred by NHAH for repairing any damages caused to the NH by laying, maintenance or shifting of the utility line will be borne by the applicant agency owing the line. | YES, Enclosed | |
| 5.9 | Undertaking that text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's Circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016) | YES, Enclosed | |




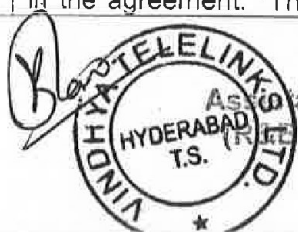
C. Raju
19/01/22
Deputy Executive Engineer
(R&B) NH Section, GOOTY.

Sayiphi
19/01/22
Deputy Executive Engineer
(R&B) NH Sub-Division, Tadipatri.

[Signature]
20/01/22
Executive Engineer (R&B)
N.H. Division, Anantapuramu

| | | | |
|------|---|---|--|
| 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/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 | |
| 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 NHAI 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. 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 Enclosed/Not Enclosed 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 | | |


Executive Engineer (R&B)
N.H. Division, Anantapuramu.



Assistant Executive Engineer
(R & B) NH Section, GOOTY.


Deputy Executive Engineer
(R & B) NH Sub-Division, Tadipatri.

| | | | |
|----|--|---|--|
| | 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. | Standard License deed as per Ministry guidelines of issued vide Letter No. RW/NH-33044/29/2015/S&R(R), Dt. 22.11.2016 | |
| 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, Ananthapuram | |
| 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 | NH/NHAI / Consultant Vindhya Telelinks Ltd Executive Engineer R&B) NH Division, Ananthapuram | |
| 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



C. Raghu 19/01/22
Assistant Executive Engineer
(R&B) NH Section, GOOTY.

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

Tanujay 19/01/22
Deputy Executive Engineer
(R & B) NH Sub-Division, Tadipatri.

[Signature] 20/11/2022
Executive Engineer (R&B)
N.H. Division, Anantapuramu.

[Signature] 21/11/2022
Superintending Engineer
(R & B) NH Circle, Anantapuramu

Check Post
Karnataka Border

Km: 375/740

LHS

Km: 376/000

Km: 377/000

Km: 378/000

LHS

Km: 379/000

ROW LINE

LHS

Km: 380/000

Km: 380/300

Km: 380/416
Km: 380/448

Km: 380/915
Km: 380/980

Km: 381/000

1.0m Drainage

3.0 Footpath

3.5m Kachha

6.0m Service Road

9.0m Surface

2.0m MEDIAN

9.0m Surface

2.0m Berm

9.5 ROW Boundary

TO BALLARI

TO GUNTAKAL

NH-67

NH-67

2.0m Berm

9.5 ROW Boundary

1.0m PROPOSED OFC

ROW LINE

RHS

Km: 375/740

Km: 377/000

RHS

Km: 378/000

ROW LINE

1.0m PROPOSED OFC

Km: 380/000

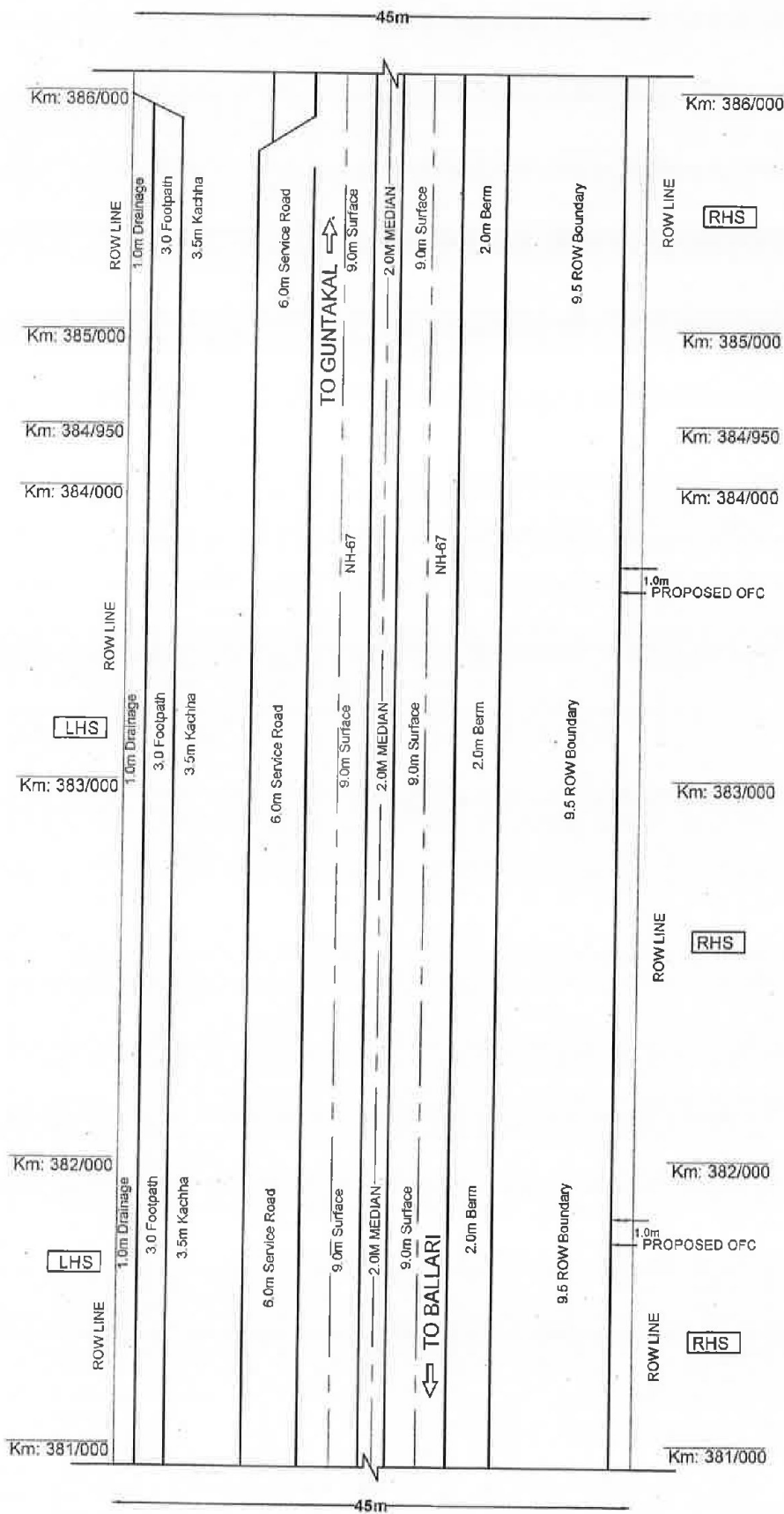
RHS

Km: 380/300

Km: 380/416
Km: 380/448

Km: 380/915
Km: 380/980

Km: 381/000



PROPOSED OFC ROUTE

BT ROAD

CENTER LINE OF CARRIAGEWAY

BOUNDARY (ROW)

BRIDGE / CULVERT

APPLICANT:

Vindhya Telelinks Limited.

Udyog Vihar, P.O. Chornata, Rewa (M.P.) 486006.

NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
- SECTION LENGTH - 5.0Km
- SCALE - NTS

Sheet - 2

Assistant Executive Engineer
(R&B) NH Section, GOOTY

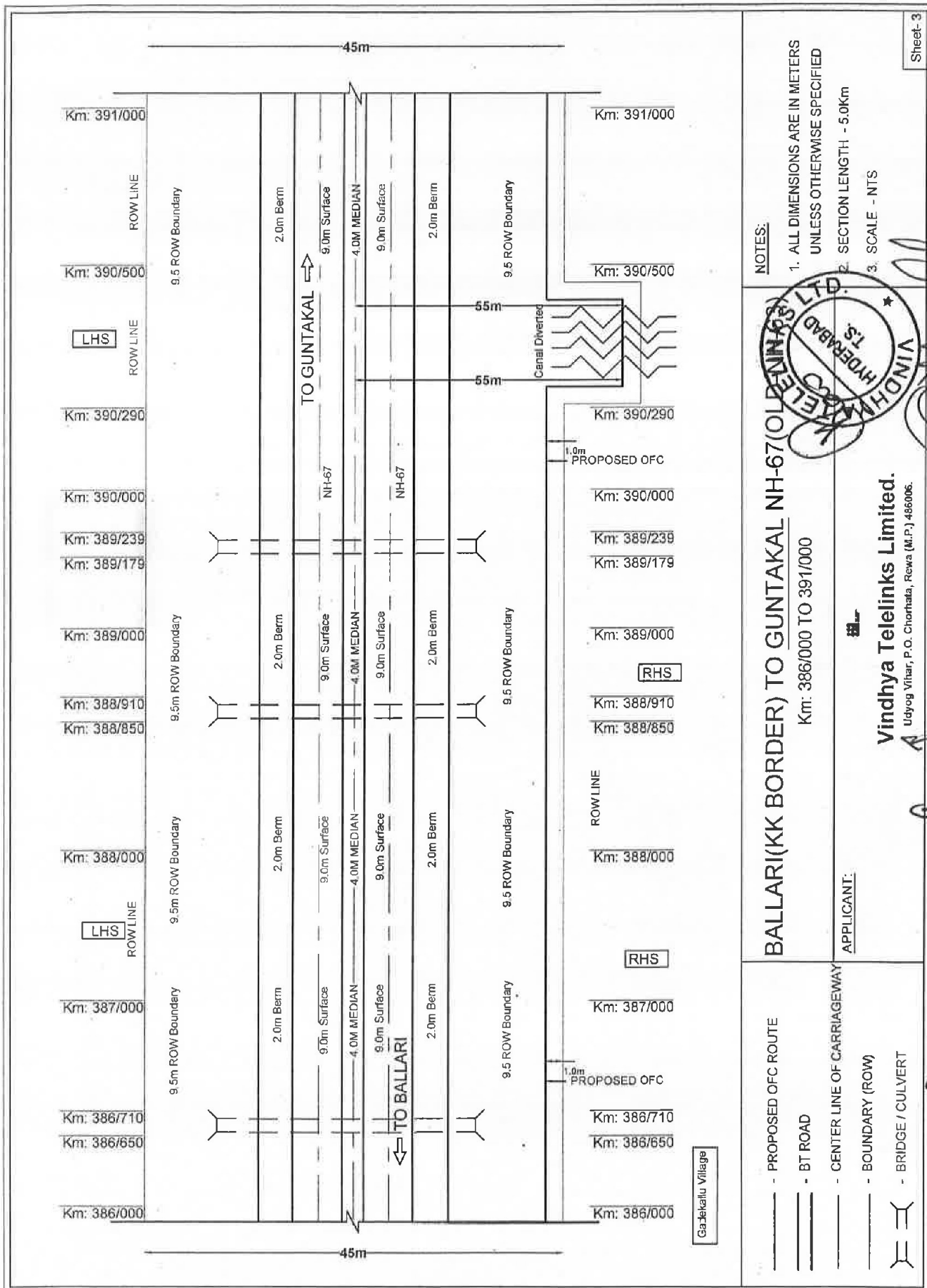
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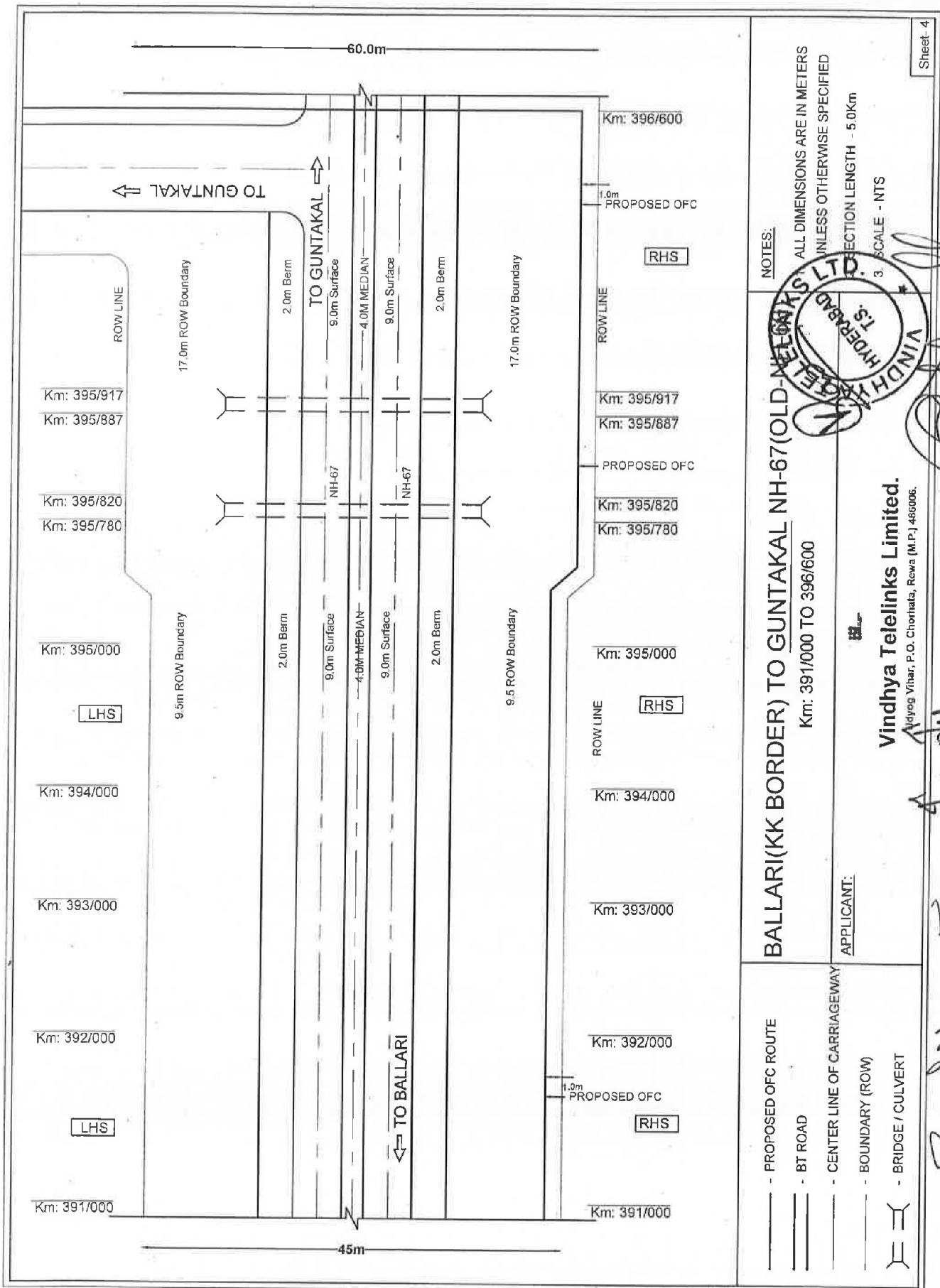
Deputy Executive Engineer
(R&B) NH Section, GOOTY

[Signature]

Executive Engineer (R&B)
NH Division, Anantapuramu

[Signature]





NOTES:

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SPECIFIED

SECTION LENGTH - 5.0Km

SCALE - NTS



BALLARI(KK BORDER) TO GUNTAKAL NH-67(OLD-NELUR)

Km: 391/000 TO 396/600

APPLICANT:

Vindhya Telelinks Limited.

Hydug Vihar, P.O. Chothala, Rewa (M.P.) 486006.

PROPOSED OFC ROUTE

BT ROAD

CENTER LINE OF CARRIAGEWAY

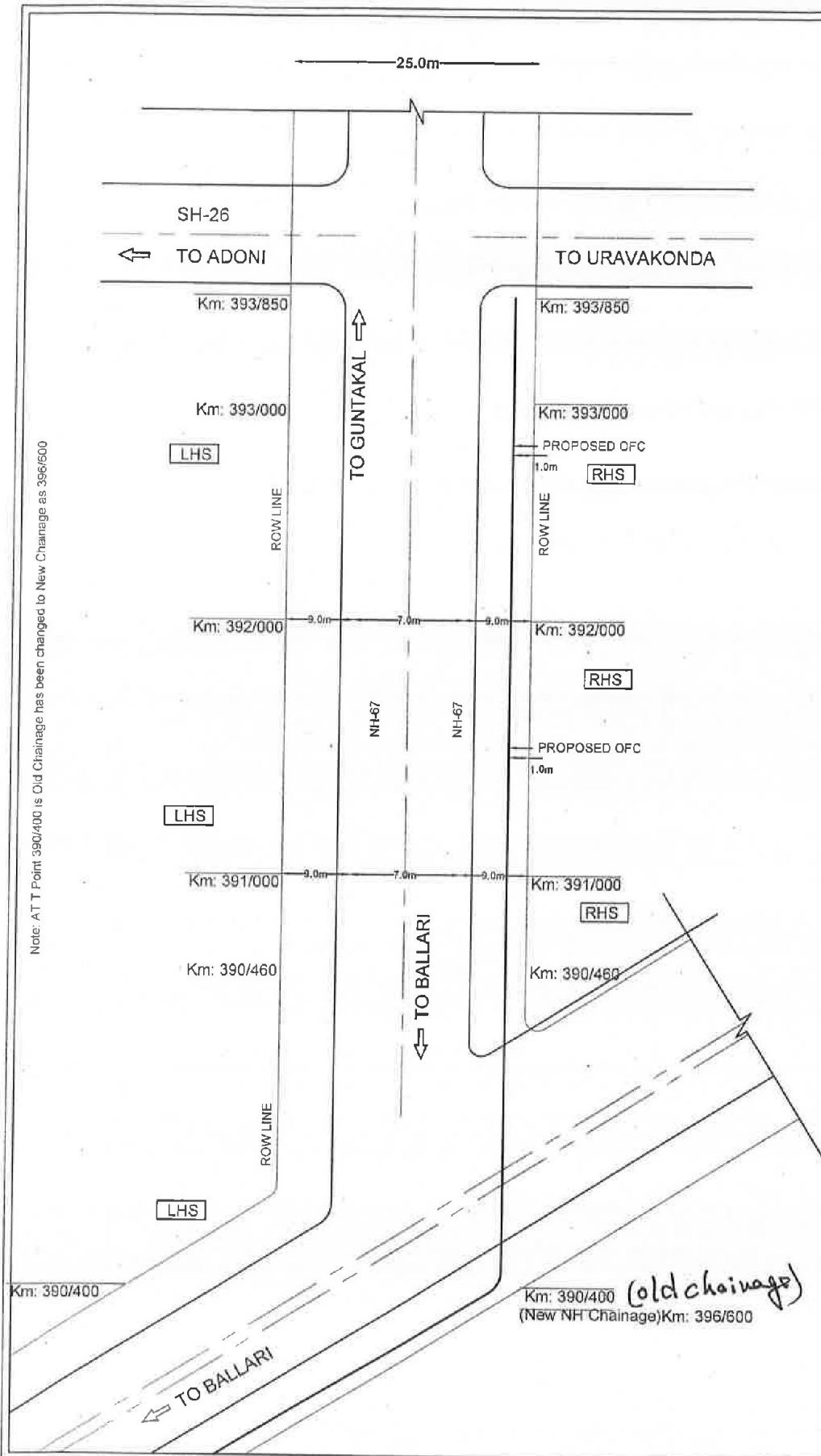
BOUNDARY (ROW)

BRIDGE / CULVERT

Sheet - 4

[Signature]
Executive Engineer (R&B)
N.R.I. Division, Anantapuramu.

[Signature]
Assistant Executive Engineer
(R&B) NH Section, GOOTY.



NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
- SECTION LENGTH - 3.45 Km
- SCALE - NTS

Sheet 5

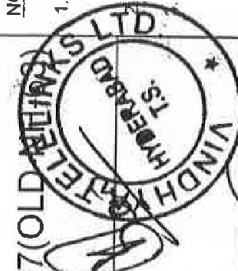
BALLARI(KK BORDER) TO GUNTAKAL NH-67(OLD CHAINAGE)

Km: 390/400 TO Km: 393/850

APPLICANT:

Vindhya Telelinks Limited.

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



Executive Engineer (R&B)
N.H. Division, Anantapur...

Sanjay Kumar
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Sanjay Kumar
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Methodology adopted for laying of OFC by Open Trench Method

General:

After through study of the entire stretch of proposed OFC laying, we have proposed to laying of OFC (Optical Fiber Cable) on NH – 67 (Old –No: NH – 63) along the road from Km 375/740 - 396/600 (Old Chainage Km 390/400) (RHS) and from Km 390/400 (New Chainage Km 396/600) - Km. 393/850 (RHS), A crossing between Km 390/400 (New Chainage 396/600) - Km 390/460 , for a total length of 24.310 Kms of Karnataka AP Border - Guntakal Section, in the state of Andhra Pradesh, National Highways, Ananthapuram.

An Indicative diagram is enclosed in the annexure for ready reference.

- ❖ We have proposed to lay our OFC at the extreme Edge of ROW according to the availability of space and in case where there is possibility of our cable is laid at 1.65 m depth with HDPE Pipe Protection.
- ❖ All Road crossings will be done by Auguring or HDD method (Trench less technology) without disturbing the Top Road surface.
- ❖ Restoration of trenches: After laying of ducts we will backfill the trench with excavated soil in layers and the trenches will be compacted with roller.

Protection Methodology in case of Culverts

Trench shall be excavated due at the extreme boundary of ROW across waterway to culverts to the depth of 1.65 m below the invert level of the culvert /cannel and DWC pipe will be laid with (RCC full round pipe) concrete encasement for further protection.

Protection methodology in case of culverts / Cannels

In case of noncompliance, we propose to lay OFC cable by HDD in shorter lengths. However, the same shall be discussed with the Executive Engineer, NH, Ananthapuram, officials on case to case basis and cable routing shall be decided as per their advice.

Methodology adopted for laying of OFC by HDD Method

General:

After through study of the entire stretch of proposed OFC laying, we have proposed to laying of OFC (Optical Fiber Cable) on NH – 67 (Old –No: NH – 63) along the road from Km 375/740 - 396/600 (Old Chainage Km 390/400) (RHS) and from Km 390/400 (New Chainage Km 396/600) - Km. 393/850 (RHS), A crossing between Km 390/400 (New Chainage 396/600) - Km 390/460 , for a total length of 24.310 Kms of Karnataka AP Border - Guntakal Section, in the state of Andhra Pradesh, National Highways, Ananthapuram.

An Indicative diagram is enclosed in the annexure for ready reference.



- ❖ In Trench less Technology method of HDD, we will excavate Two Pits of size 1.2 mx 0.6mx 1.65 m (distance between two pits is 150-200 mtrs) at the extreme edges of Row boundary, horizontally directional drilling method the hole will be drilled of 110mm dia through Machine and then the PLB HDPE ducts – 2 nos (40mm dia) will be pulled.
- ❖ For main carriage way crossing through trench less technology, we will utilise 100mm dia HDPE pipe as a casing for PLB HDPE Ducts.
- ❖ Along the road (where feasibility available), all Road crossings (including by lanes, means village roads) and build-up area will be done by Auguring or HDD method (Trench less technology) without disturbing the Top Road surface.
- ❖ Restoration of pits: After laying of ducts we will backfill the pits with excavated soil in layers and the pits will be compacted with roller.

Methodology in case of Cannels / Bridges

- ❖ We propose to lay OFC cable by HDD in shorter lengths. However, the same shall be discussed with the Executive Engineer, NH, Ananthapuram, officials on case to case basis and cable routing shall be decided as per their advice.



TOP OF THE ROAD

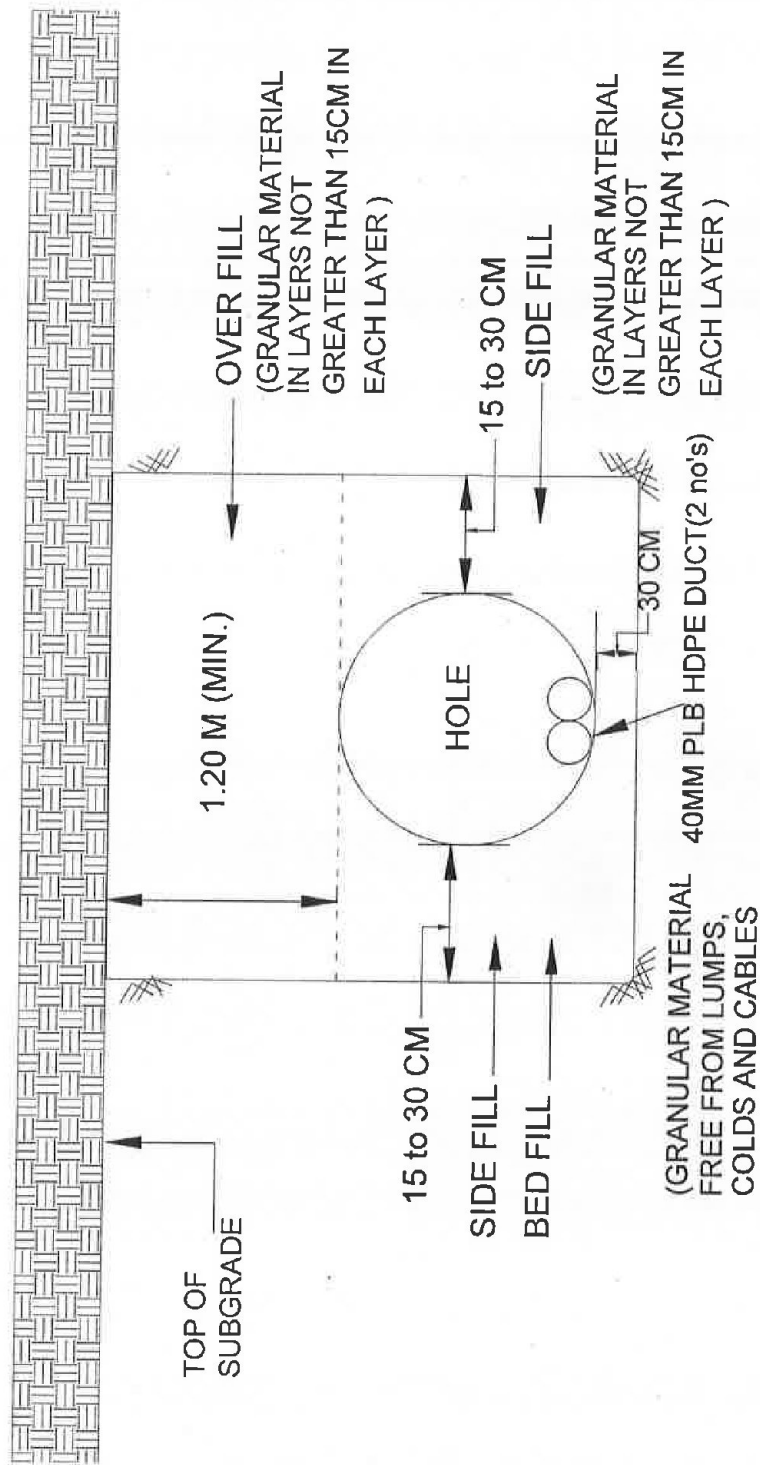


Figure not to scale

FIGURE-2 INSTALLATION OF PIPE FOR
ALONG THE ROAD



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TOP OF THE ROAD

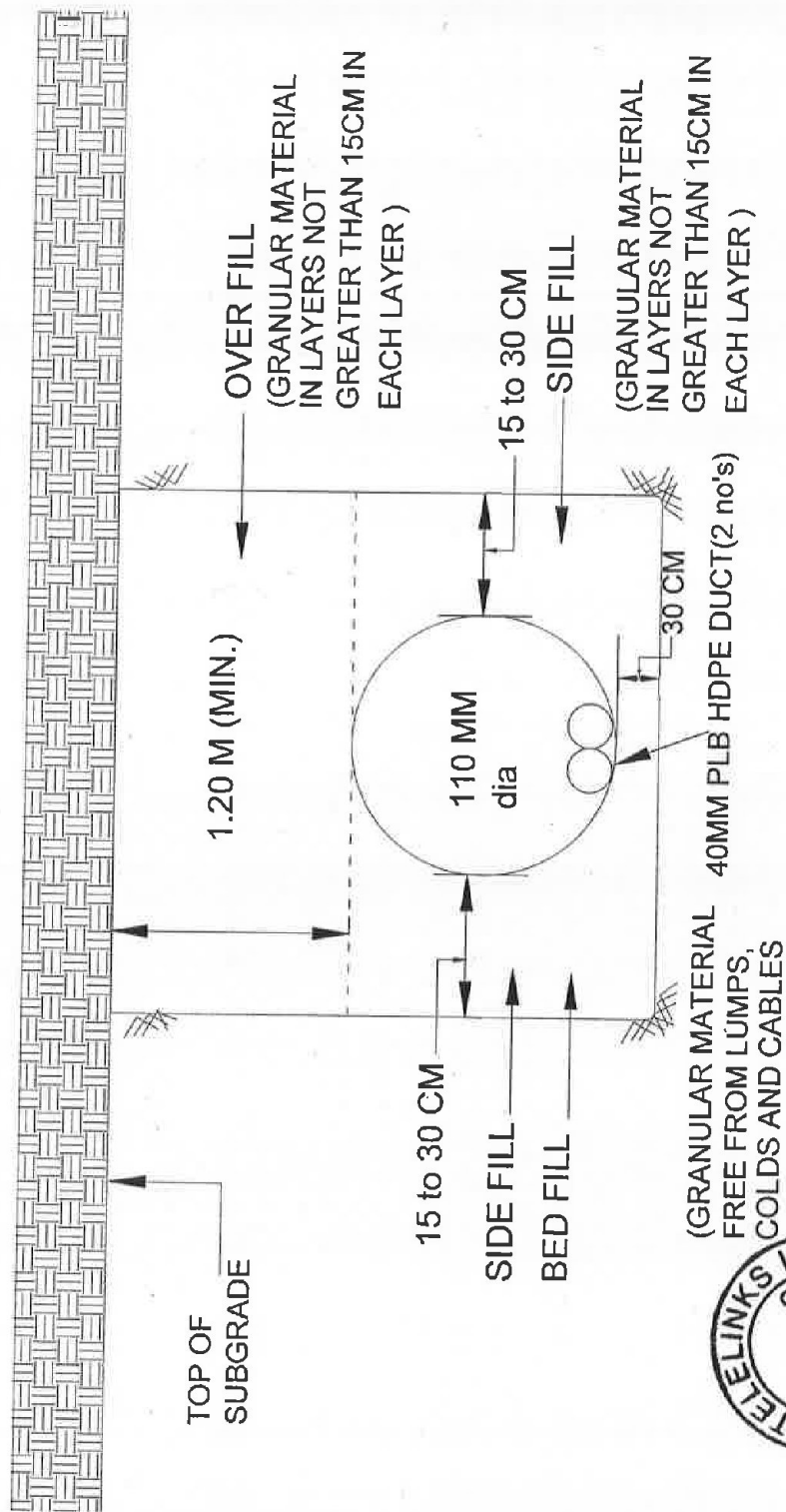


Figure not to scale

FIGURE-1 INSTALLATION OF CASING PIPE FOR CROSSING THE ROAD



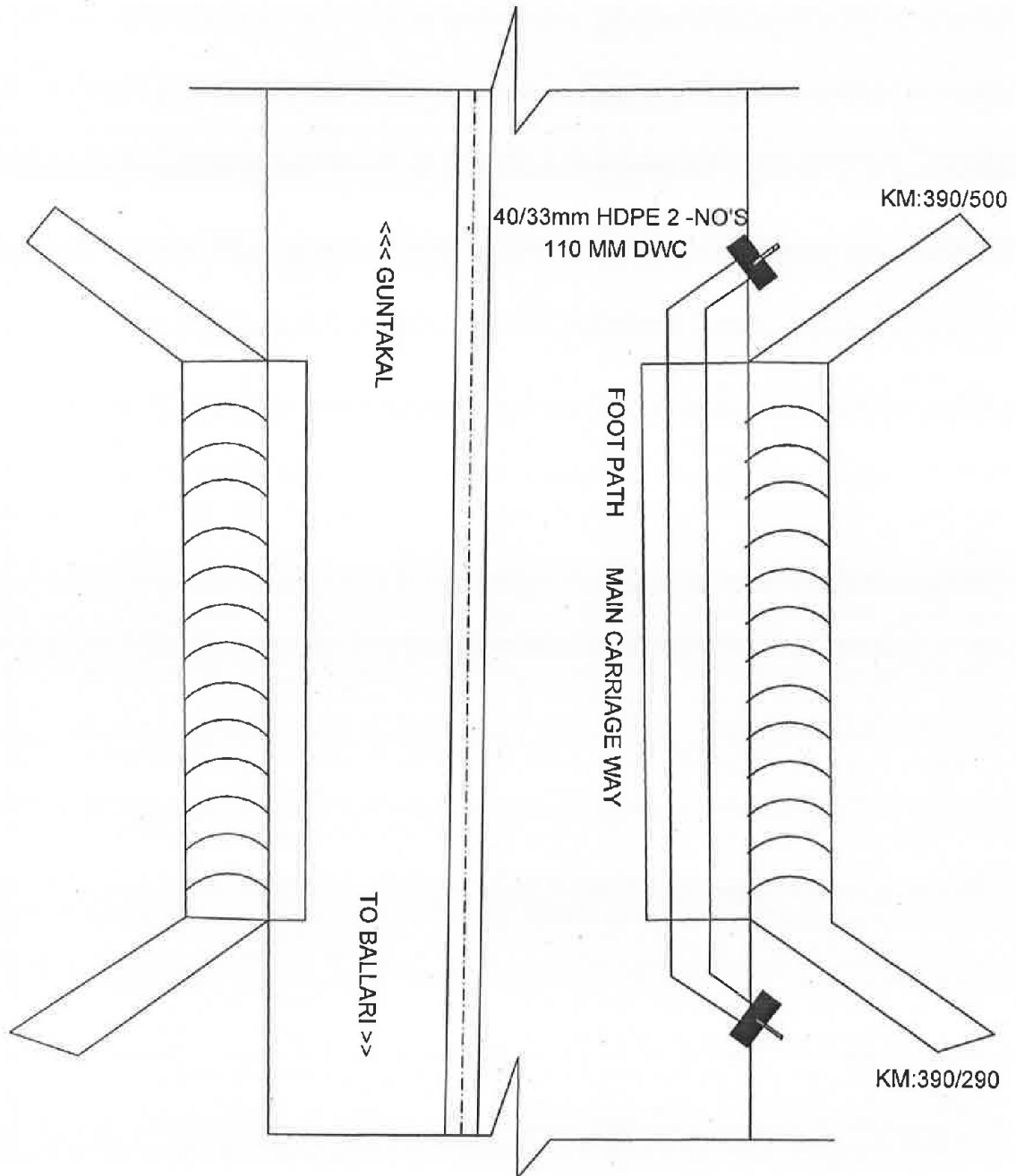
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BRIDGE CROSSING WITH CLAMPING FOR OFC LINE



ALONG THE BRIDGE CABLE RUTE PLAN



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