



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, Teachers' Colony, Gurunanak Nagar Road, Vijayawada-520 008. A.P.

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भारतमाला  
प्रगति के पथ पर अग्रसर  
BHARATMALA  
ROAD TO PROSPERITY

Ref:NHAI/RO-VJA/12035-23/Airtel//2021-22/ 1245

Dt. 09-06-2021

**INVITATION OF PUBLIC COMMENTS**

**Sub: RO - Vijayawada - Proposal of M/s. Telesonic Network Ltd. for laying Optical Fiber Cable (OFC) along NH-16 from Km.839+200 to Km.839+700 on LHS and across NH at Km.839+200 for a total length of 550mt in Annavaram - Diwancheruvu Section of NH-16 - Public comments - Reg.**

The Project Director, PIU - Rajamahendravaram submitted a proposal of M/s. Telesonic Network Ltd. for laying Optical Fiber Cable (OFC) laying Optical Fiber Cable (OFC) along NH-16 from Km.839+200 to Km.839+700 on LHS and across NH at Km.839+200 for a total length of 550mt in Annavaram - Diwancheruvu Section of NH-16.

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

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](mailto:rovijayawada@nhai.org)

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

No: NHAI/PIU-RJY/TNL-550 meters/2021/ 26963

12<sup>th</sup> May, 2021

To:

The Regional Officer,  
National Highways Authority of India,  
Regional Office, 21, Teachers' Colony,  
Gurunanak Nagar Road, Vijayawada-520 008.



Sub: NHAI, PIU, Rajamahendravaram - Permission for Laying Optical Fibre Cable along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh - Proposal submitted - Approval - Requested - Reg.

Ref: 1. Letter No. Airtel/Rajahmundry/NHAI/04 Dt. 08.01.2021 received from M/s. Telesonic Network Ltd., Hyderabad.  
2. IE, M/s. L.N. Malviya Infra Projects Pvt., Ltd., Letter No. LNMIPPL/NHAI/246 Dt. 29.01.2021.  
3. Concessionaire, M/s. Diwancheruvu Tollway Pvt., Ltd., Letter No. DATPL/NHAI/2020-21/671 Dt. 18.03.2021.

Sir,

1. It is to submit that M/s. Telesonic Network Ltd., Hyderabad vide reference 1<sup>st</sup> cited submitted a proposal seeking permission for Laying Optical Fibre Cable by HDD method along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh in accordance with the guidelines issued vide Revised MORT&H Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check List issued by MORT&H, Vijayawada Dt. 13.04.2017.
2. As per the Revised Circular Guidelines, the Agency has agreed to submit Performance Bank Guarantee and also submitted an undertaking duly stating that they will submit Performance Bank Guarantee as demanded by NHAI.
3. The above proposal has been forwarded to the TL, M/s. L.N. Malviya Infra Projects Pvt., Ltd., for verification at site and feasibility report. Accordingly, the Consultants vide reference 2<sup>nd</sup> cited recommended the same duly stating that permission may be granted to the applicant to lay the OFC Cable. A copy of the report submitted by the IE is enclosed for ready reference.
4. Similarly, the Concessionaire, M/s. Diwancheruvu Tollway Pvt., Ltd., have submitted their consent for laying of Optical Fibre Cable at the said location subject to the provisions of clause 11.3.1 of Contract Agreement, vide ref. 3<sup>rd</sup> cited.

*Handwritten signature and date: 12/05/2021*

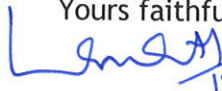
**Building a Nation, Not Just Roads**



5. The applicant has submitted the Methodology for laying of Optical Fibre Cable by HDD Method below the ground level and also across the water bodies / bridge portions wherever applicable.
6. The proposal has been verified by the Undersigned as per the MORT&H revised Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check Lit issued by the MORT&H, Vijayawada Dt. 13.04.2017 and found in order. The Certificate in the prescribed format as per the MORTH Guidelines Dt. 22.11.2016 is enclosed herewith.
7. As seen from the proposal, the total length of OFC to be laid is for a length of 550 meters with a width of 0.1 meter, with the entry and exit pits at 2m x 1.25m. The total area of NH being utilized by the applicant is 60 Sq.m [(550x0.1)+2x2x1.25].
8. The Licence Fee for a total area of 60 sq.,mts., is worked out as Rs. 7,000/- for a period of Five (5) Years @ 33% (under category Public Utilities). The Specification Report along with Calculation Sheet is enclosed herewith.
9. The proposal submitted by the Agency is herewith submitted along with the following:

(1) Proposal along with enclosures	(2) Check List
(3) License Deed.	(4) Undertakings
(5) Methodology	(6) Diagrams
10. With the above, the proposal submitted by M/s. Telesonic Networks Ltd., Hyderabad, seeking permission for Laying Optical Fibre Cable along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh through HDD Method, as per the Revised MORT&H Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check List issued by MORT&H, Vijayawada Dt. 13.04.2017 is herewith recommended for favourable consideration and according necessary approval.

Thanking you,

Yours faithfully,  
  
12/05/2024  
(D. Surendra Nath)  
Project Director

Encl: 2 files (1 Original +1 Duplicate)

## C E R T I F I C A T E

1. Undersigned has examined the proposal of the applicant for Laying Optical Fibre Cable by HDD method along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh and confirm that all the standard conditions issued vide Ministry Circular No. RW/NH-33044/29/2015/S&(R) Dt. 22.11.2016 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 easing of curve etc., as the cable is being laid by HDD method.
3. The IE / Concessionaire of the project has recommended and given consent for the proposal.
4. I will ensure through the Independent Engineer for the project for supervision of the work of laying of utility and ensure that the defects in road portion after laying of utility are corrected.
5. I will notify / forfeit the BG for claims for damages done / disruption in working, if any.
6. I will ensure that proposed permission is entered in the Register of Records.
7. The record of previous approval, if any has been considered and copy of the same is enclosed with the proposal.

  
12/05/2021

(D. Surendra Nath)  
Project Director  
NHAI, PIU, Rajamahendravaram

**LICENCE FEE ESTIMATE**

Name of the work : Towards License fee for Laying Optical Fibre Cable along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh by M/s. Telesonic Networks Ltd., Hyderabad.

**Estimate - A**

**LICENCE FEE CHARGES**

Sl.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

Name of the work : Towards License fee for Laying Optical Fibre Cable along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh by M/s. Telesonic Networks Ltd., Hyderabad.

1	Km. 839+200 to Km. 839+700	1	500	0.1	-	50	706.72	Sqm	35336
2	Across the Road at Kathipudi i.e., at Km. 839.200	1	50	0.1	-	5	706.72	Sqm	3534
3	ADD: For Entry & Exit Pits	2	2	1.25	-	5	706.72	Sqm	3534
									<b>42403</b>

License Fee (Rs/Sq.m/Month) =  $\frac{42403}{10 \times 12}$  = 353

License Fee for 5 years = 5 X 12 X 353 = **21202**


The Licence fee for Public utilities shall be 33% of the fee prescribed for Industrial Utilities as per point no.5 of MORTH guide lines vide letter No. RW/NH-33044/29/2015/S&R (R) Dated 22nd Nov, 2016

**6996**

**(Rupees Seven Thousand only)**

**(or) Say**

**7000**

  
12/05/2021

Project Director  
NHAI, Rajahmundry

### SPECIFICATION REPORT

Specification report to accompanying the estimate towards "License fee" for Laying Optical Fibre Cable along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh by M/s. Telesonic Networks Ltd., Hyderabad.

Estimate Amount: Rs. **7000.00**

M/s. Telesonic Networks Ltd., Hyderabad vide his letter No. Airtel/STL/Rajahmundry/NHAI-16/04/08/01/2021 Dt. 08.01.2021 have requested to issue permission for Laying Optical Fibre Cable along NH-16 from Km. 839+200 to Km. 839+700 on LHS and across the Road at Km. 839+200 between Kotananduru to Kathipudi for a total length of 550 meters in East Godavari District in the State of Andhra Pradesh by M/s. Telesonic Networks Ltd., Hyderabad.

The rate of land abutting NH/SH/ZPP/MPP obtained from the website of Registration & Stamps Department, Government of Andhra Pradesh is used for calculation of the license fee. The list of villages falling in the proposed stretch of road, corresponding chainages and breakup of village wise land rates are as follows :

Sl.No.	Name of the village	Chainage (KMR)		Length (km)	Rate of Land Abutting NHAI	
		From	To		Per Acre	per Sq.m
1	Kathipudi	839.200	839.700	0.500	2860000	706.72
2	Crossing at Kathipudi	839.200		0.050	2860000	706.72

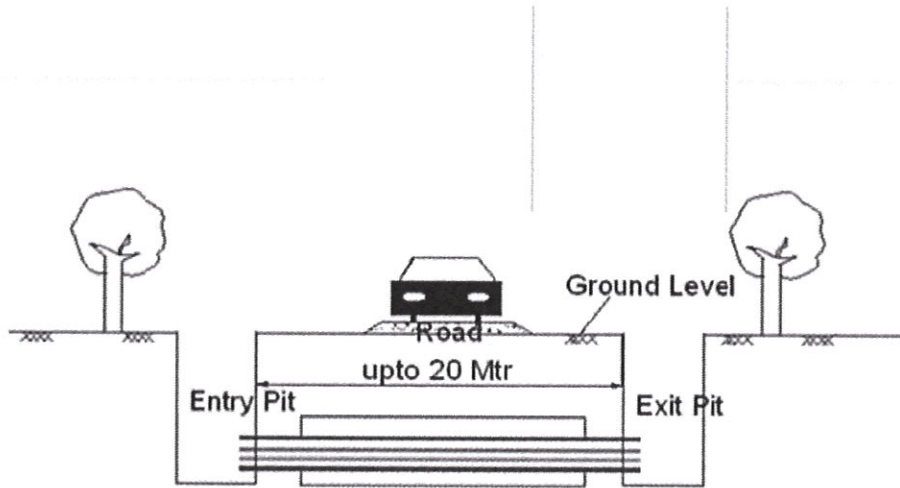
The land rate corresponding to the chainage is used for calculation of License fee.

Hence the license fee estimate is prepared as per MORTH Circular memo No. RW/NH/33044/29/2015/S&R(R), dated 22.11.2016.

  
Project Director  
NHAI, Rajahmundry



## Methodology of OFC Laying



### SINGLE ROAD CROSSING BY MOILING / BORING

#### **Water Body Crossing**

Water bodies and other natural obstructions can be crossed by open-cut method, trenchless techniques or using existing infrastructures such as bridges and culverts depending upon the nature of water body (dry/stagnant/flowing) and availability of permissions from concerned authorities for using existing infrastructure. In all cases, installation technique shall be such that protection of HDPE ducts is ensured. Necessary protection should be provided.

#### **Crossings using Existing Bridges/Culvert**

- i) Existing infrastructure for crossings water bodies such as nalas /streams / rivers / canals, etc. shall be used wherever possible and permission to use the bridge or culvert is available.
- ii) Bridges where it is not possible to make trench, GI pipe / DWC pipe (selected as per criteria as given above) shall be installed at safe available place on the bridge designated for the utilities. The pipe shall be fixed in place firmly using clamps and/or encasing in M15 concrete. HDPE ducts then shall be pulled into this pipe

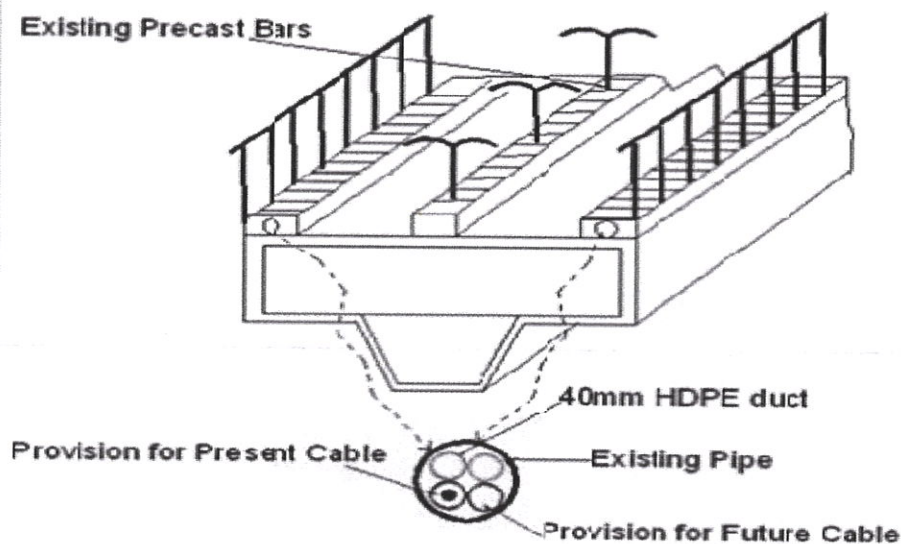


## Methodology of OFC Laying

iii) When GI pipe/duct is installed on the underside of bridge or culverts, additional measures shall be taken to prevent it getting washed out during flooding. The ducts laid on adjacent areas (banks of water body) shall also be protected against washout or settlement of backfilled area

iv) Before crossing bridge/culvert the engineer from concerned authority (PWD/NHAI) must be consulted for future plan of expansion or re-construction and to decide the alignment of trench.

Following pictures show typical installations on bridges for reference and guidance purpose.



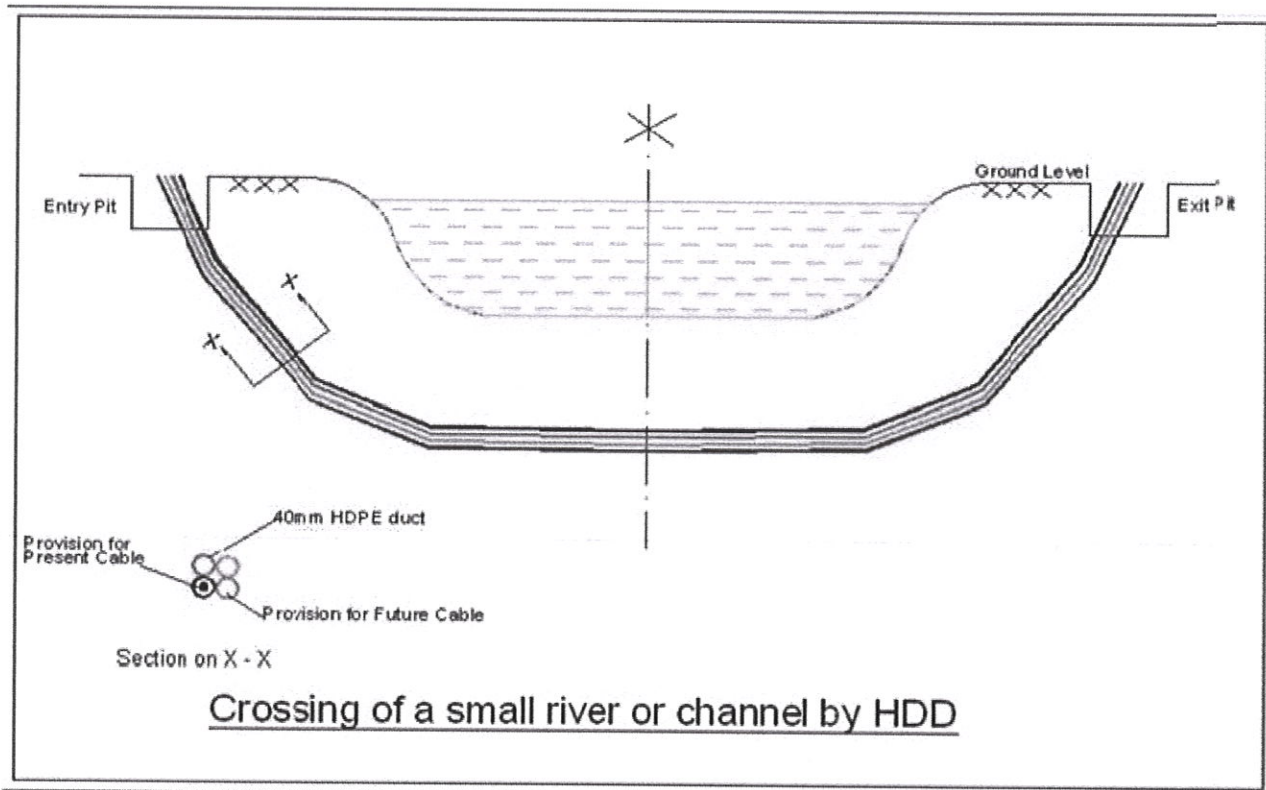
Typical Crossing on bridge with existing pipes available  
at left / right side of the bridge





## Methodology of OFC Laying

Pit size of HDD will be 1.5X1.5X1.65m depth

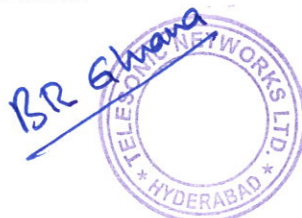


### Route Markers

Route markers made of RCC (1:2:4) shall be provided at a distance of every 250 meters or wherever there are crossings or major deviation in the route from being straight. Additionally route markers shall be installed on both sides of the crossing. Route markers shall also be put at duct coupler locations and man-hole and Handhole locations. Markers shall be of length 1250 mm with base of 100 mm x 250 mm tapering to 100 mm x 200 mm. Name/logo of Owner shall be engraved on the surface of marker. Aboveground surface of route marker shall be painted in Blue colour. Route Markers placed at coupler locations shall be painted yellow. Markers placed at the man-holes shall be painted red in colour. Owner name/logo shall be filled with fluorescent white.

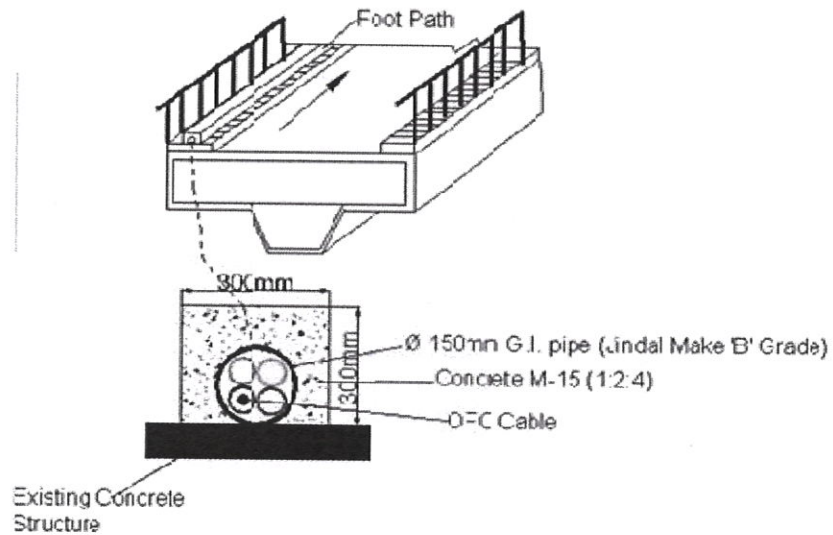
### Man Holes/Hand holes

Size of Manholes made of RCC is 1.0m dia and depth 1.1m depth. They will be placed 500mm below GL and will be placed each at 1.0Km distance.

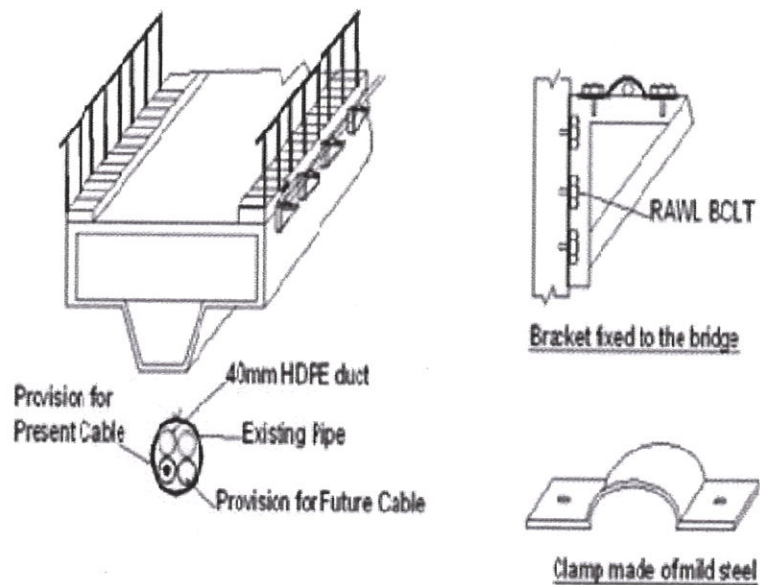


## Methodology of OFC Laying

1e)

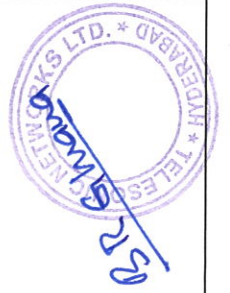
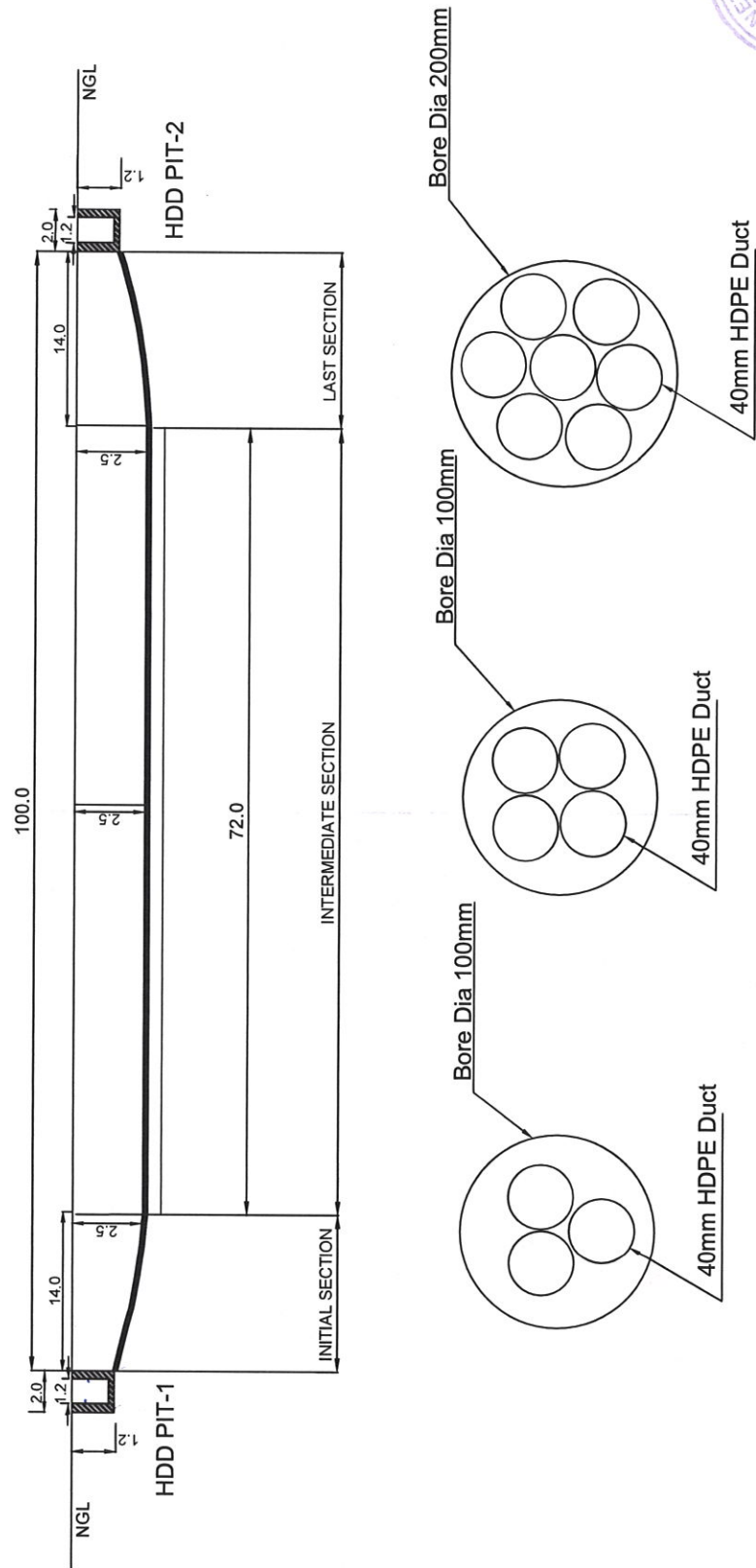


Laying of 150mm G.I. Pipe in Re-inforced concrete placing on existing concrete structure



Crossing of Bridge on one side with a G.I. Fixed on Brackets

## Typical Cross Sectional For HDD





SHEET NO.01

The diagram illustrates the plan view of the Chennai - Srikakulam Highway, showing the layout of the road, service roads, drainage, and boundaries. The central road is labeled "Chennai - Srikakulam Highway" and "NH-16". The road is flanked by "Service Road" and "Drainage" sections. The boundaries are marked by "Boundary" lines. The diagram includes dimensions for various sections and labels for specific locations like MS-839/200, MS-839/350, MS-839/500, and MS-839/700. The road is flanked by "Service Road" and "Drainage" sections. The boundaries are marked by "Boundary" lines. The diagram includes dimensions for various sections and labels for specific locations like MS-839/200, MS-839/350, MS-839/500, and MS-839/700.

SECTION LENGTH= 550 M

**All Dimensions are in Meters**

### LEGEND

- 
- Legend:
- ROAD CL
  - Boundary
  - BERM
  - Culvert
  - Proposed OFC

SCALE

NOT TO SCALE

BR Gharg

