

No. RO/VJA/Misc.24/B/OFC/NH-67/Sr.no.34/270

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: 05.07.2018

Invitation of Public Comments

Sub: Proposal for Permission for laying optical fibre cable along and across the Nation Highway by M/s BSNL, Ananthapuramu in the stretch from Km 592/600 to 625/640 on Hubli-Krishnapatnam road on NH-67 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 Engineer-in-Chief (R&B), NH & CRF, A.P vide letter dated 21.06.2018 for laying optical fiber cable along and across the Nation Highway by M/s BSNL, Ananthapuramu in the stretch from Km 592/600 to 625/640 on Hubli-Krishnapatnam road on NH-67 in the state of Andhra Pradesh.

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, Punnami Thota,
Vijayawada - 520010
Email id: romorthvijayawada@gmail.com

Encl:As above

Yours faithfully,

(Nakul Prakash Verma)
Assistant Executive Engineer
For Regional Officer

Copy to:

- 1) Senior Technical Director, NIC for uploading on the Ministry's website.
- 2) The Engineer-in-chief (R&B), NH & CRF, AP for information.
- 3) The Executive Engineer(R&B), NH Division, Kadapa
- 4) M/s. BSNL, Anantapur.

GOVERNMENT OF ANDHRA PRADESH
ROADS & BUILDINGS DEPARTMENT



From: Sri Y. Rajeev Reddy, M.E,
Engineer-in-Chief (R&B)
National Highways & CRF,
Room No. 501, 5th floor,
State HOD Offices Building,
M. G. Road, Vijayawada- 520 010.

To
The Regional Officer
MoRTH, Vijayawada
#38-2-3/2, Gorle Dalappana Veedhi,
Near American Hospital,
Punnami Thota,
Vijayawada.

Lr. No.592/EE(NH&CRF)/DEE5/AEE1/2018 Dt: 21.06.2018

Sub: (R&B) N.H. Circle, Ananthapuram- (R&B) N.H. Division, Vijayawada – Permission for laying Optical Fibre Cable from Km 592/600 to 625/640 of NH 67 by M/s BSNL, Ananthapuramu – Proposals – Submitted – Reg.

Ref: Letter. Letter No: 1520/OFC NH-67/ATO/2017-18 dated 04.06.2018 of the SE, NH, Ananthapuram

The SE(R&B), NH Circle, Ananthapuram vide reference cited has forwarded the proposal for laying Optical Fibre Cable by M/s BSNL, Ananthapuram along and across the Highway from Km 592/600 to 625/640 of NH 67 for a total length of 34,217 meters. The proposal is scrutinized in this office as per Ministry's policy guidelines dt: 22.11.2016 ("Accommodation of Public and Industrial Utility Services along and across National Highways") and the following observations are made :

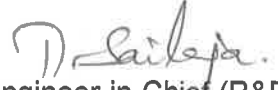
1. The total length of OFC line proposed by M/s BSNL is 34,217 m from Km 592/600 to 625/640 including the length along the Highway for 34,065 mts and for 152 mts across the Highway (9 road crossings).
2. Nine road crossings are involved in the proposal and M/s BSNL have proposed to execute the same by HDD method and also proposed to lay OFC for a length of 5346 mts by HDD method along the Highway in village/ town limits.
3. The Licensee has proposed the OFC to be laid through 40mm HDPE duct (1 no) placed at a depth of 1.65 mts below the ground level at a minimum distance varies from 7mts to 10.00 mts from C/L of the road and at the edge of ROW.
4. The ROW of the road is 20.00 mts in the proposed stretch.
5. The Licensee has submitted the detailed route map for laying the proposed pipe line.
6. The SE had submitted certificates, check list, Strip plan, Methodology of OFC laying and other undertakings as furnished by the Licensee as per latest MoRTH guidelines Dt: 22.11.2016.

The amount of performance bank guarantee and License fee to be paid by BSNL Department are calculated and shown below:

Sl. No.	Item	Amount proposed by SE (amount in Rs.)
1	License Fee	17,175/-
2	Performance bank guarantee	34,21,700/-

In view of the above, the above proposal for laying of Optical Cable along and across of NH-67 from Km 592/600 to 625/640 and road crossings (9 no.s for a total length of 152 mts) for a total route length of 34,217 m by M/s BSNL as per Ministry's guide lines Dt: 22.11.2016 is forwarded for according permission.

Encl: Proposal: 1 set (Check list, Estimate for (i) Licence fee,
(ii) Performance BG, Strip plan, Details (i) ROW (ii) No. of Road
Crossings, Certificates- 2 Nos, Undertakings on NJS- 2 Nos,
Performance BG on NJS, Indemnity bond on NJS, Methodology)


For Engineer-in-Chief (R&B)
NH& CRF, Admn

Copy to the SE(R&B), NH Circle, Ananthapuram

CHECK LIST

Guidelines for processing the proposal for laying of utility line in the land along
National Highways vested with NHAI/PWD/BRO

Sl.No.	ITEM	INFORMATION/STATUS	REMARKS
1	General Information		
1.1	Name and Address of the Applicant/Agency	Divisional Engineer, Transmission Projects,M/W Station Compound, Gooty Road, Anantapur-515001	
1.2	National Highway number	NH-67	
1.3	State	ANDHRA PRADESH	
1.4	Location	KADAPA District	
1.5	Chainage in KM.	KM 591/600 to 625/640 of Hubli Krishnapatnam Road of NH 67	
1.6	Length in Mtrs.	34065 Mtrs.	
1.7	Width of available RoW		
	(a) Left side from centre line towards increasing chainage/KM direction	Varies from 6 to 10 mtrs. ✓	
	(b) Right side from centre line towards increasing chainage/KM direction	No	
1.8	Proposal to lay the utility	NA	
	(a) Left side from centre line towards increasing chainage/KM direction		
	(b) Right side from centre line towards increasing chainage/KM direction		
1.9	Proposal to acquire land	NA	
	(a) Left side from centre		
	(b) Right side from centre line		
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		
1.11	Details of already laid services if any along the proposed route		
1.12	Number of existing lanes (2/4/6/8 lines)	4	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lines)		
1.14	Service road existing or not	NO	
	If Yes then which side		
	(a) Left side from Centre lane		
	(b) Right side from Centre lane		
1.15	Proposed service road	NO	
	(a) Left side from Centre lane		
	(b) Right side from Centre lane		
1.16	Whether proposal to lay the utility is after the service road or between the service road and main carriageway	NA	
1.17	Whether carrying of sewage/gas pipe line has been proposed on highway bridges. If Yes then mention the methodology proposed for the same.	NA	

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N.H. DIVISION, KADAPA.

Superintending Engineer
(R & B) NH Circle, Anantapuramu.

2		INFORMATION/STATUS	REMARKS
Sl.No.	ITEM		
1.18	Whether carrying sewage/gas pipeline has been proposed on the parapet of the bridges. If Yes, the mention the methodology proposed for the same.	NA	
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 purpose at the expenses of the agency owning the line	YES DOING BY HDD METHOD (Trenchless Technology)	
	(a) Whether existing drainage structures are allowed to carry utility pipeline.		
	(b) Is it on a line normal to NH		
	(c) What is the distance 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.		
	(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.		
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.		
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.		
	(g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3m below the drain Inverts. Mention the proposed details.		
	(h) Mention the methodology proposed for crossing of road for the proposed sewage/gas pipe line. Crossing shall be by boring method (HDD) (Trenchless Technology), specially, where the existing road pavement is of cement concrete or dense bituminous concrete type.	YES	
	(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 waterway along it.		
2	Document/Drawings to be enclosed with the proposal	YES, Enclosed	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep X 0.3m wide) (i) Should not be greater than 60cms wider than the outer diameter of the pipe (ii) Located as close to the extreme edge of the right of way as possible but not less than 15 meter from the centre-lines of the nearest carriageway. (iii) Shall not be permitted to run along the National	YES, Enclosed	

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3	Draft License Agreement is signed by two witnesses	Enclosed/ Not enclosed	
3.1	The licensee fee estimate as per Ministry's guidelines issued vide circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.	Enclosed/ Not enclosed	
4	Whether Performance Bank Guarantee as per Ministry's Circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 is obtained.	Yes/No	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines	Yes/No	
5	Affidavit / Undertaking from the Applicant for the 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.	Enclosed/ Not enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	Enclosed/ Not enclosed	
5.3	Undertaking for Confirming all standard condition of Ministry Circulars and NHAI's guidelines.	Enclosed/ Not enclosed	
5.4	Undertaking for Indemnity against all damages and claims	Enclosed/ Not enclosed	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed/ Not enclosed	
5.6	Undertaking that if any claim is raised by the Concessionaire/contractor then the same has to be paid by the applicant.	Enclosed/ Not enclosed	
5.7	Undertaking that prior approval of the NHAI 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.	Enclosed/ Not enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owning the line.	Enclosed/ Not enclosed	
5.9	Undertaking that text of the text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's Circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016)	Enclosed/ Not enclosed	

[Signature]
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[Signature]
EXECUTIVE ENGINEER (R & P)
N.H. DIVISION, KADAPA

[Signature]
Superintending Engineer
(A & B) NH Circle, Anantapuramu.

	Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges.		
	(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.		
2.2	Cross section showing the size of pit and location of cable for HDD method	Enclosed/ Not enclosed	
2.3	Strip plan/Route Plan showing the utility/Gas pipe line, Chainage, width of ROW, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed/ Not enclosed	
2.4	Methodology for laying of the utility pipe line.	Enclosed/ Not 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.		
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Enclosed/ Not 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/No	
	(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/No	
	(d) The side-fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture 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/No	
	(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/No	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	Yes/No	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	Yes/No	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes/No	
2.4.3	Methodology for laying of Pipe Line through CD works and method of laying. In cases where the carrying of gas pipe line on the bridge becomes inescapable.		

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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 Gas Pipeline/duct 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 honour the same."	Inserted or not	
9	Who will supervise the work of laying of Gas pipe line (a) On behalf of the Applicant (b) On behalf of MoRTH/NHAI		
10	Who will ensure that the defects in road portion after laying of Gas pipe line are corrected and if not corrected then what action will be taken. (a) On behalf of the Applicant (b) On behalf of NHAI		
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire. On behalf of the Applicant		
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)	Enclosed/ Not enclosed	
13	If any previous approval is accorded for laying of underground Gas Pipe line then Photocopy of register of records of permissions accorded (as maintained by PD) be enclosed.	Enclosed/ Not enclosed	

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[Name Designation and signature of the authorized representative of applicant]

[Name Designation and signature of concerned field authority of NHAI/ PWD/BRO]

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5.10	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as Directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration	Enclosed/ Not enclosed	
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.	Enclosed/ Not enclosed	
5.12	Certificate from the applicant in the following format (i) Laying of Gas pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (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 six-laning or any other development."	Enclosed/ Not enclosed Enclosed/ Not enclosed	
6	Who will sign the agreement on behalf of Gas pipe line agency.	— NA —	
	Power of Attorney to sign the agreement is available or not	— NA —	
7	The Project Director, will submit the following Certificates:	— NA —	
7.1	Certificate that the proposal is conforming to all standard conditions issued vide Ministry's Circular No: RW/NH-33044/29/2015/S&(R) dated 22.11.2016.	Enclosed/ Not enclosed	
7.2	Certificate from PD in the following format (i) "It is certified that any other location of the Gas pipe line would be extremely difficult and unreasonable costly and the installation of Gas pipe 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". (ii). for 6-lanning (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". (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	

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(R & B) NH Circle, Anantapuramu

ANNEXURE		
NO. OF ROAD CROSSINGS INVOLVED HDD		
HDD DETAILS OF MYDUKUR-BADVEL 24F OFC ROUTE		
Sl. No.	Location / Running Length of Road crossings	Proposed HDD length in Mtrs.
1.	Kesilingaiahgari Palli BT Road at Km Ref.593/2	16m
2.	Peddisetty Palli BT Road at Km Ref.596/2	12m
3.	GV Satram Local BT Road at Km Ref.596/8	10m
4.	B.Matam CC Road at 597/8	13m
5.	BT Road at 602/0+182 to 194m	12m
6.	BT Road at 603/6+4 to 24m	20m
7.	BT Road at 604/2+67 to 92m	25m
8.	Rekulakunta BT Road at Km Ref.610/4	30m
9.	Km Ref.612/4+106m to 120m (BT Road)	14m
	Total	152 Mtrs

ANNEXURE		
HDD DETAILS OF MYDUKUR-BADVEL 24F OFC ROUTE		
Sl. No.	Location / Running Length in Village/Town limit	Proposed HDD length in Mtrs.
1	Peddisetty Palli Village from 596/2+94 to 596/4+160m	266m
2	GV Satram Village Limit From Km Ref.597/8+100 to 598/2+100m	400m
3	Nandipalli Village Km Ref.618/8 to 619/8+95m	1095m
4	Badvel Town Km Ref.622/2+170 to 625/6+45m	3265m
	Total	5346Mtrs.

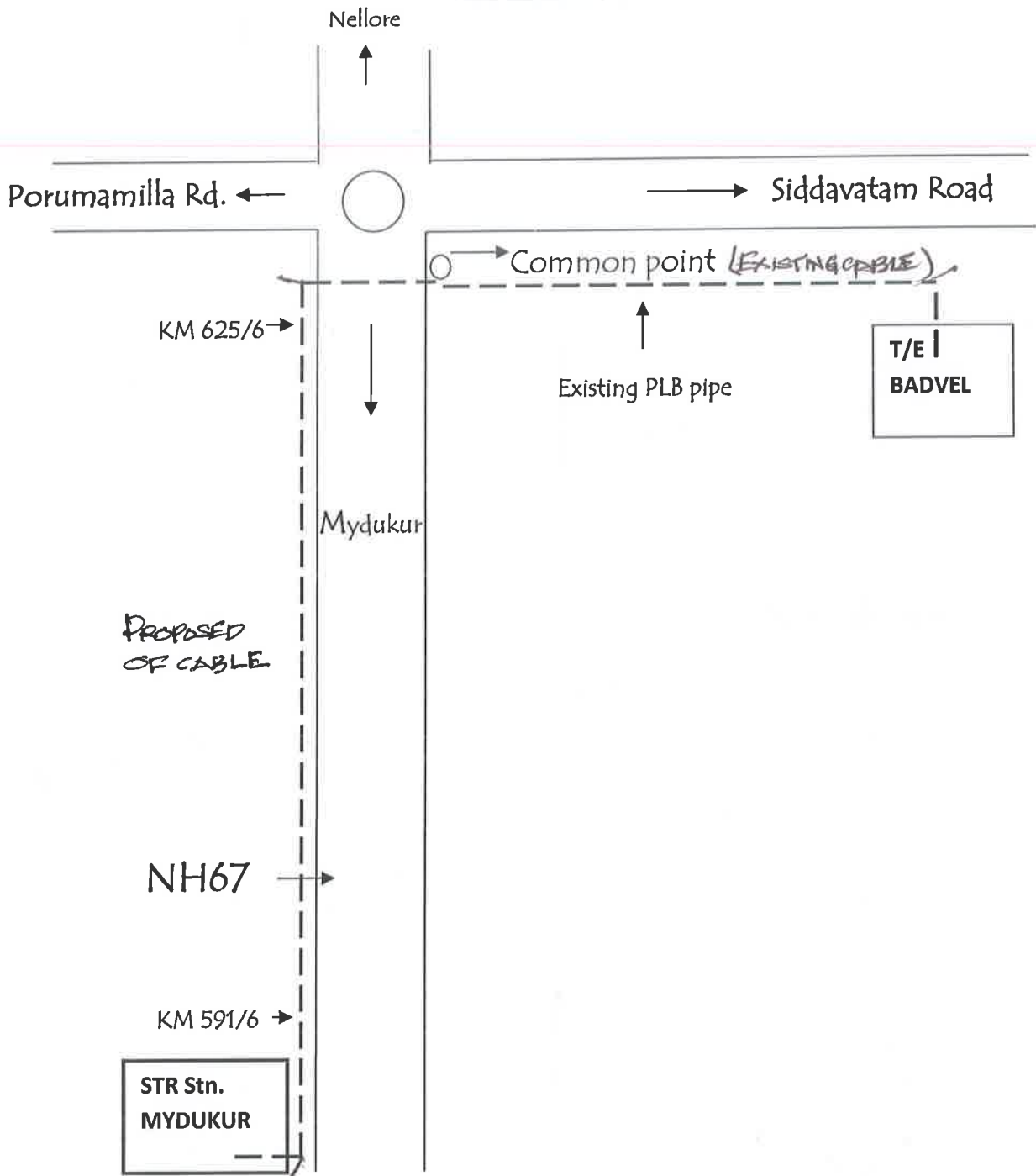

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The first part of the paper discusses the importance of the study and the objectives of the research. It also mentions the scope of the study and the limitations. The second part of the paper discusses the methodology used in the study. It mentions the data sources and the data collection methods. The third part of the paper discusses the results of the study. It mentions the findings and the conclusions. The fourth part of the paper discusses the implications of the study. It mentions the practical implications and the theoretical implications. The fifth part of the paper discusses the future research. It mentions the areas for further research and the suggestions for future studies.

The study was conducted in a systematic and rigorous manner. The data was collected from a large sample of participants. The results of the study are presented in a clear and concise manner. The findings of the study are discussed in detail. The implications of the study are discussed in detail. The future research is discussed in detail.

Received: 10/10/2023
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Published: 10/10/2023

ROUTE DIAGRAM OF PROPOSED STR MYDUKUR TO T/E BADVEL 24 FIBRE
OFC ROUTE



INDEX:

Proposed cable: - - - -

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along
across
trench filling =
34.065 mt - 5.346 mdp
152 mdp
HDD

~~STRIP PLAN~~ STRIP PLAN:-

Proposed Optical Fibre Cable from STR Mydukur to T/E Badvel from KM Ref 591/600 to 625/640 of NH-67

KM	O.F.C able	Offset in Mtrs.	CLR	Remarks
STR Mydukur		10		Cable proposed on LHS
591/8		10		
592/0		10		
592/2		12		
592/4		12		
592/6		8		Rayappagaripalli Village
592/8		8		
593/0		12		
593/2		10		
593/4		10		
593/6		10		
593/8		12		
594/0		12		
594/2		12		
594/4		12		
594/6		10		
594/8		10		
595/0		12		
595/2		12		
595/4		12		
595/6		12		
595/8		12		
596/0		12		
596/2		12		
596/4		10		Peddisettipalli Village
596/6		12		
596/8		12		
597/0		12		
597/2		12		
597/4		12		GV Satram
597/6		12		GV Satram
597/8		12		GV Satram
598/0		8		GV Satram
598/2		8		GV Satram
598/4		8		GV Satram
598/6		12		
598/8		12		
599/0		12		
599/2		12		Varadayapalli Village


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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be carefully documented to ensure the integrity of the financial data. This includes recording dates, amounts, and the nature of the transactions.

Secondly, the document highlights the need for regular reconciliation. By comparing the internal records with external statements, discrepancies can be identified and corrected promptly. This process helps in maintaining the accuracy of the accounts and prevents any potential errors from accumulating.

Furthermore, the document stresses the importance of transparency and accountability. All transactions should be clearly labeled and supported by appropriate documentation. This not only helps in tracking the flow of funds but also provides a clear audit trail for future reference.

In conclusion, the document outlines several key principles for effective financial management. These include maintaining accurate records, performing regular reconciliations, and ensuring transparency in all transactions. By adhering to these principles, organizations can ensure the reliability of their financial data and maintain a high level of accountability.

Proposed Optical Fibre Cable from STR Mydukur to T/E Badvel from KM Ref 591/600 to 625/640 of NH-67

KM	O.F.C able	Offset in Mtrs.	CLR	Remarks
599/4		12		
599/6		12		
599/8		12		
600/0		12		
600/2		12		
600/4		12		
600/6		12		
600/8		12		
601/0		12		
601/2		12		
601/4		12		
601/6		12		
601/8		12		
602/0		12		
602/2		12		
602/4		12		
602/6		12		
602/8		12		
603/0		12		
603/2		12		Jandlavaram Village
603/4		12		
603/6		12		
603/8		12		
604/0		12		
604/2		12		
604/4		25		Toll Gate
604/6		25		Toll Gate
604/8		12		
605/0		12		
605/2		12		
605/4		10		
605/6		12		Jangaraju Palli
605/8		12		
606/0		12		
606/2		12		
606/4		12		
606/6		12		
606/8		12		
607/0		12		
607/2		12		
607/4		12		
607/6		12		

Date		Description		Amount	
1911	Jan 1	Balance		100.00	
	Jan 15	Received from A. B. C.		50.00	
	Feb 1	Received from D. E. F.		25.00	
	Feb 15	Received from G. H. I.		75.00	
	Mar 1	Received from J. K. L.		100.00	
	Mar 15	Received from M. N. O.		50.00	
	Apr 1	Received from P. Q. R.		25.00	
	Apr 15	Received from S. T. U.		75.00	
	May 1	Received from V. W. X.		100.00	
	May 15	Received from Y. Z. A.		50.00	
	Jun 1	Received from B. C. D.		25.00	
	Jun 15	Received from E. F. G.		75.00	
	Jul 1	Received from H. I. J.		100.00	
	Jul 15	Received from K. L. M.		50.00	
	Aug 1	Received from N. O. P.		25.00	
	Aug 15	Received from Q. R. S.		75.00	
	Sep 1	Received from T. U. V.		100.00	
	Sep 15	Received from W. X. Y.		50.00	
	Oct 1	Received from Z. A. B.		25.00	
	Oct 15	Received from C. D. E.		75.00	
	Nov 1	Received from F. G. H.		100.00	
	Nov 15	Received from I. J. K.		50.00	
	Dec 1	Received from L. M. N.		25.00	
	Dec 15	Received from O. P. Q.		75.00	
	Total			1000.00	

Proposed Optical Fibre Cable from STR Mydukur to T/E Badvel from KM Ref 591/600 to 625/640 of NH-67

KM	O.F.C able	Offset in Mtrs.	CLR	Remarks
607/8		12		
608/0		12		
608/2		12		
608/4		12		
608/6		12		
608/8		12		
609/0		12		
609/2		12		
609/4		12		Kothapalli Village
609/6		12		
609/8		12		
610/0		12		
610/2		12		
610/4		12		
610/6		12		
610/8		12		
611/0		12		
611/2		12		
611/4		12		
611/6		12		
611/8		12		D. Agraharam Village
612/0		12		D. Agraharam Village
612/2		10		D. Agraharam Village
612/4		10		D. Agraharam Village
612/6		12		D. Agraharam Village
612/8		12		
613/0		12		
613/2		12		


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TABLE I		Summary of the results of the experiments	
Experiment	Results	Experiment	Results
1	...	2	...
3	...	4	...
5	...	6	...
7	...	8	...
9	...	10	...
11	...	12	...
13	...	14	...
15	...	16	...
17	...	18	...
19	...	20	...
21	...	22	...
23	...	24	...
25	...	26	...
27	...	28	...
29	...	30	...
31	...	32	...
33	...	34	...
35	...	36	...
37	...	38	...
39	...	40	...
41	...	42	...
43	...	44	...
45	...	46	...
47	...	48	...
49	...	50	...
51	...	52	...
53	...	54	...
55	...	56	...
57	...	58	...
59	...	60	...
61	...	62	...
63	...	64	...
65	...	66	...
67	...	68	...
69	...	70	...
71	...	72	...
73	...	74	...
75	...	76	...
77	...	78	...
79	...	80	...
81	...	82	...
83	...	84	...
85	...	86	...
87	...	88	...
89	...	90	...
91	...	92	...
93	...	94	...
95	...	96	...
97	...	98	...
99	...	100	...

TABLE I
Summary of the results of the experiments

Proposed Optical Fibre Cable from STR Mydukur to T/E Badvel from KM Ref 591/600 to 625/640 of NH-67

KM	O.F.C able	Offset in Mtrs.	CLR	Remarks
613/4		12		
613/6		12		
613/8		12		
614/0		12		
614/2		12		
614/4		12		
614/6		12		
614/8		12		
615/0		12		
615/2		12		
615/4		12		
615/6		12		
615/8		12		
616/0		12		
616/2		12		
616/4		12		
616/6		12		
616/8		12		
617/0		12		
617/2		12		
617/4		12		
617/6		12		
617/8		12		
618/0		12		
618/2		12		
618/4		12		
618/6		12		
618/8		12		
619/0		7		Nandipalli Village
619/2		7		Nandipalli Village
619/4		7		Nandipalli Village
619/6		7		Nandipalli Village
619/8		7		Nandipalli Village
620/0		12		
620/2		12		
620/4		15		
620/6		15		
620/8		10		
621/0		15		
621/2		12		Badvel Town
621/4		10		Badvel Town
621/6		15		Badvel Town

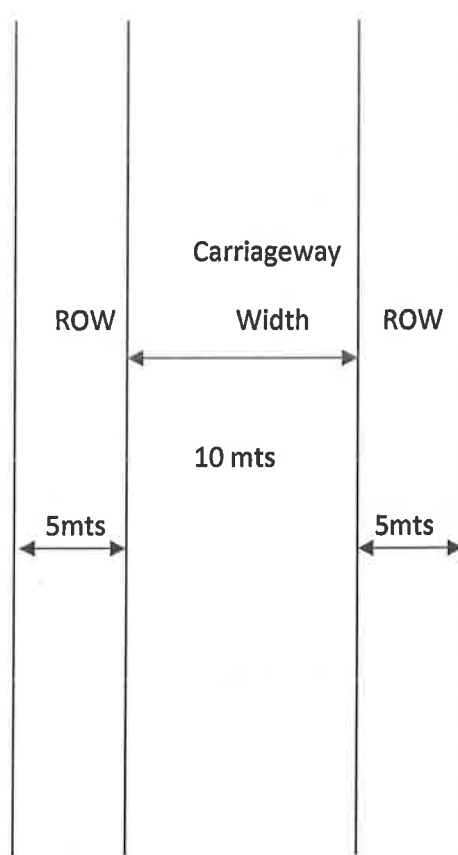
Proposed Optical Fibre Cable from STR Mydukur to T/E Badvel from KM Ref 591/600 to 625/640 of NH-67

KM	O.F.C able	Offset in Mtrs.	CLR	Remarks
621/8		10		Badvel Town
622/0		10		Badvel Town
622/2		12		Badvel Town
622/4		10		Badvel Town
622/6		8		Badvel Town
622/8		8		Badvel Town
623/0		10		Badvel Town
623/2		8		Badvel Town
623/4		8		Badvel Town
623/6		8		Badvel Town
623/8		8		Badvel Town
624/0		10		Badvel Town
624/2		8		Badvel Town
624/4		8		Badvel Town
624/6		8		Badvel Town
624/8		8		Badvel Town
625/0		10		Badvel Town
625/2		8		Badvel Town
625/4		8		Badvel Town
625/6		8		Badvel Town
625/6+40m		8		Veera Reddy Circle


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ROW Details from km. 592/600 to 625/640 at Badvel of NH-67



[Signature] 29/5/18
Executive Engineer (R&B)
NH Division, Kadapa

[Signature] 4/6/18
Superintending Engineer
(R & B) NH Circle, Anantapuramu.

Superintending Engineer
(R & B) NH Circle, Anantapuram