



No. RW/TRI/Utility/38/2019-20

Government of India

Ministry of Road Transport & Highways

Regional Office (Kerala & Lakshadweep Region)

Public Office Building, Opposite to Museum,

Thiruvananthapuram - 695033.

Phone No. 0471-2320879, 2326306; email : rokeralamorth@gmail.com

Dated: 27.10.2019

**Invitation of public comments**

**Sub:- Proposal regarding permission for laying of Water Supply Pipe Line By Kerala Water Authority as Part of AMRUT Mission Project on NH-66 from Km.152/520 to 155/300 Under Kannur Division.**

The proposal is seeking permission to lay Water Supply Pipe line along the road from Km.152/520 to 155/300 on NH-66 in the state of Kerala by Kerala Water Authority submitted to this office vide Chief Engineer, PWD NH, Thiruvananthapuram's letter dated 04.10.2019 in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal for laying Water Supply pipe line along the NH from Km.152/520 to 155/300 (Both Side) and Crossing at Km.153/900 and Km.154/500 on NH-66 as under:

Stretch in Km.	Length (Km.)	ROW (m)	Dist. Of Prop. Road cutting from centre of NH (m).
<b><u>LHS by Open Trench Method</u></b>			
From Km 152/520 to 155/300	2.78(KM)	17.50(Average)	7.50
<b><u>Crossing HDD Method</u></b>			
Km.153/900	0.020 (Km)	NA	NA
<b><u>RHS by Open Trench Method</u></b>			
From Km 153/800 to 155/230	1.430 (Km)	17.50(Average)	7.50
<b><u>Crossing HDD Method</u></b>			
Km.154/500	0.020 (Km)	NA	NA

3. The Executive Engineer, Kerala Water Authority, Project Division, Kannur has proposed to lay Water Supply pipe line from Km.152/520 to 155/300 (Both side) and Crossing at Km.153/900 and 154/500 on NH-66 by HDD/Open Trench method.

4. The Executive Engineer, Kerala Water Authority, Project Division, Kannur has furnished an undertaking that, they will shift the Water Supply pipe line if required by NHAI/PWD or any other Highways Authorities within the time frame prescribed by PWD/Highways Authority. Further, it is also mentioned by the Executive Engineer, Kerala Water Authority, Project Division, Kannur that the proposed Water Supply pipe line laying work will not affect the design, stability, traffic safety and future improvement of proposed stretch. In addition, all the undertakings as prescribed in the checklist has been furnished by the The Executive Engineer, Kerala Water Authority, Project Division, Kannur.

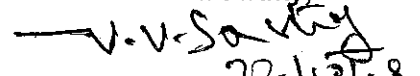
5. As per the guidelines issued by the Ministry vide letter No.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the application will be made available for public comments and the comments will be invited within 30 days from the date of uploading in the Ministry's web site.

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

The Regional Officer  
Ministry of Road Transport & Highways,  
Public Office Building,  
Thiruvananthapuram - 695033.

Encl: As above.

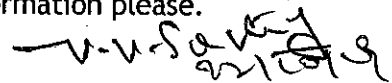
Yours faithfully,

  
(V.V. Sastry)

Regional Officer cum Highway Administration

Copy to:

1. Senior Technical Director, NIC for uploading in the Ministry's website
2. The Chief Engineer, PWD NH, Thiruvananthapuram for information please.

  
(V.V. Sastry)

Regional Officer cum Highway Administration

# CHECKLIST

Guideline for processing the proposal for accommodation of Public and Industrial Utility services along and across National Highways.

## Relevant Circulars:

1. Ministry circular No. NH-41(58)/68 dated. 31.01.1969.
2. Ministry circular No. NH-III/P/66/76 dated. 18.11.1976.
3. Ministry circular No. RW- III/P/66/76 dated. 01.05.1982..
4. Ministry circular NO. RW/NH-11037/1/86-DOI(II) dated. 28.07.1993.
5. Ministry circular NO. RW/NH-11037/1/86-DOI dated. 19.01.1995.
6. Ministry circular NO. RW/NH-34066/7/2003 S&R dated. 25.10.1999.
7. Ministry circular NO. RW/NH-34066/7/2003 S&R(B) dated. 17.09.2003
8. Ministry circular NO. RW/NH-34044/29/2015 S&R(R) dated. 22.11.2016.

Sl. No.	ITEM		Information/Status	Remarks
1.0	General Information		Proposal description  AMRUT-Kannur Corporation – Rehabilitation of existing old Network in Pallikkunnu Zone	
1.1	Name and address of the applicant/Agency		Executive Engineer, Kerala Water Authority Project Division, Kannur.	
1.2	National Highway Number		NH 66	
1.3	State		Kerala	
1.4	Location		Km 153/800 to 155/230	
	Chainage in km.	Length (km)	ROW(m)	Distance of proposed utility from Centre of NH LHS/RHS
	Km 153/900 to 154/150	250m <i>br</i>	20.00 m	8.0m, Earthen shoulder LHS
	Km 154/150 to 154/500	350m <i>br</i>	18.00 m	Through BC carriageway LHS
	Km 154/500	20m <i>br</i>	14.00 m	Crossing – Push through
	Km 153/800 to 155/230	1430m <i>br</i> (-100m overlap)	16.00 m	Through BC carriageway RHS

1.5	Defect Liability Period of last work undertaken in the stretch	Feb 2021		
1.6	Proposed location of Utility line crossing the NH	At Km 154/500		
1.7	Proposal to acquire land	N.A.		
1.8	Whether proposal is in the same side where land is not to be acquired	N.A.		
1.9	Details of already laid services, if any along the proposed route	100mm AC Pipe of KWA		
1.10	Number of existing lanes (2/4/8 lanes)	2 Lane with Paved Shoulder		
1.11	Proposed number of lanes (2 lane with paved shoulders (4/6/8 lanes)	N.A.		
1.12	Service road existing or not if yes, then which side.	NO		
1.13	Proposed service road	NO		
1.14	Whether proposed utility line is after the service road or between the service road and main carriageway.	Within the B.C. Carriageway		
1.15	Whether carrying of utility line has been proposed on highway bridges if yes then mention the methodology proposed for the same	N.A.		
1.16	Whether carrying of utility line has been proposed on the parapet any part of the bridges. If yes then mention the methodology proposed for the same	N.A.		
1.17	If crossing of the road involved. If yes it shall of conduit specially built for the purpose at the expense of the agency awing the line.	Casing Pipe		
	(a) Whether existing drainage structures are allowed to carry utility line.	No		
	(b) Is it on a line normal to NH	N.A.		
	(c) What is the distance of crossing the utility line from the existing structures crossing shall not be too near the existing structures on the NH minimum distance being 15m.	N.A.		
	(d)The casing pipe (or conduit pipe in the case of electric cables) carrying the utility line shall be of steel, Cast iron or reinforce cement concrete or have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Mention type of casing.	Steel		


	(e) Ends of casing/conduit pipes shall be sealed form outside. So that it does not act as drainage path.	Yes	
	(g) The top of the casing/conduct pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at least 0.3m below the drain inverts. Mention the proposed details.	Attached in the Drawing	
	(h) Mention the methodology proposed for the crossing of road for the proposed utility line. Crossing shall be by boring method (HDD) (trenchless technology). Where the stretch is in Defect Liability Period (DLP).	Push Through	
	(i) The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a water way along it	Yes	
2	Document/drawing to be enclosed with the proposal.	Yes	
2.1	Cross section showing the size of the trench for open trenching method. Consolidated by mechanical tempering and controlled addition of moisture to 95% of the protectors density. Over fill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.	Yes	
	(Is it normal size of 1.2m deepx0.3m wide)  1. Should not be greater than 60cm wider than the outer diameter of the pipe.  2. Located as close to the extreme edge of the right of way as possible.  3. Shall not be permitted to run along the national highways when the road formation is situated in double cutting nor shall be laid over the existing culverts and bridges.  4. These should be so laid that their top is least 0.5m below the ground level so as not to obstruct the drainage of the road land.	Yes  Yes  N.A.  Yes	
2.2	Cross section showing the size of the pit and the location of the cable for HDD method.	N.A	


2.3	Strip plan/route plan showing the proposed utility line, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Attached Drawing Separately.  Route Plan is attached. Exact location of the Pipeline will be finalized after making testpits on the proposed alignment	
2.4	Methodology for laying of utility line.	Open Trenching through the Bituminous Carriageway for a length of 1680.00 m and Earthen shoulder 250.00m.	
2.4.1	Open trenching method (Open trenching in Bituminous surface will be allowed in the utility corridor only where road is not under Defect Liability Period, with proper justification for not using HDD). If yes, what is the methodology for refilling the trench.	Stretch is under Defect Liability Period.	
	(a) Defect Liability Period of the stretch	February 2021	
	(b) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe.	Yes	
	(c) For filling of the trench, bedding shall be at a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods, and cobbles and graded to yield a firm surface without a sudden change in the bearing values. Unsuitable soil and rock edged should be excavated and replaced by selected materials.	Drawing separately Attached	
	(d) The backfill shall be completed in two stages (1) side fill to level of the top of the pipe and (2) overfill to the bottom of the road crest.	Will be followed	
	(e) The side fill shall consists of granular material laid in 15 cm layers each	Yes	
2.2	Cross section showing the size of the pit and the location of the cable for HDD method.	1.3m x 1.50 .  Open Trenching between Km 153/800 to 155/230	
	(f) The road crest shall be built to the same strength as the existing crest on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Yes	
	(g) The excavation shall be protected by flag man, signs and barricades and red lights during night hours.	Yes	

	(h) If required, a diversion shall be constructed at the expense of the agency owing the petroleum line/underground water conductor system.	Yes	
2.4.2	Locations and total length of stretch where open trenching adopted.	Km 153/800 to 155/230 1430.00m (-100m Overlapping with another project)	
2.4.3	Horizontal directional drilling (HDD), method	Push through for crossing 20m	
2.4.4	Methodology for laying of utility line through CD works and method of laying. In case where the carrying of Gas pipe line on the bridge becomes in escapable.	N.A.	
2.4.5	Location and total length of stretch where HDD adopted.	N.A.	
3	Draft license agreement is submitted along with the proposal.	Yes	
3.1	The license fee estimate as per ministry's guide lines issued vide circular number RS/NH-33044/29/2015/S&R(R) dated. 22.11.2016.	Yes	
4	Whether performance guarantee as per ministry's circular number RS/NH-33044/29/2015/S&R(R) dated. 22.11.2016 is obtained/undertaking attached.	Yes	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guide lines.	Yes	
5	Affidavit/undertaking form the applicant for the following is to be furnished.	Yes. Enclosed	
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to the MoRTH/NHAI/PWD or to the concerned agency as decided by MoRTH.	Yes	
5.2	Undertaking for renewal of bank guarantee as and when asked by MoRTH/NHAI/PWD.	Yes	
5.3	Undertaking for confirming all standard conditions of MoRTH's circulars number RS/NH-33044/29/2015/S&R(R) dated. 22.11.2016.	Yes	
5.4	Undertaking for indemnity against all damages and claims.	Yes	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Yes	
5.6	Undertaking that prior approval of the MoRTH/NHAI/PWD shall be obtained before	Yes	

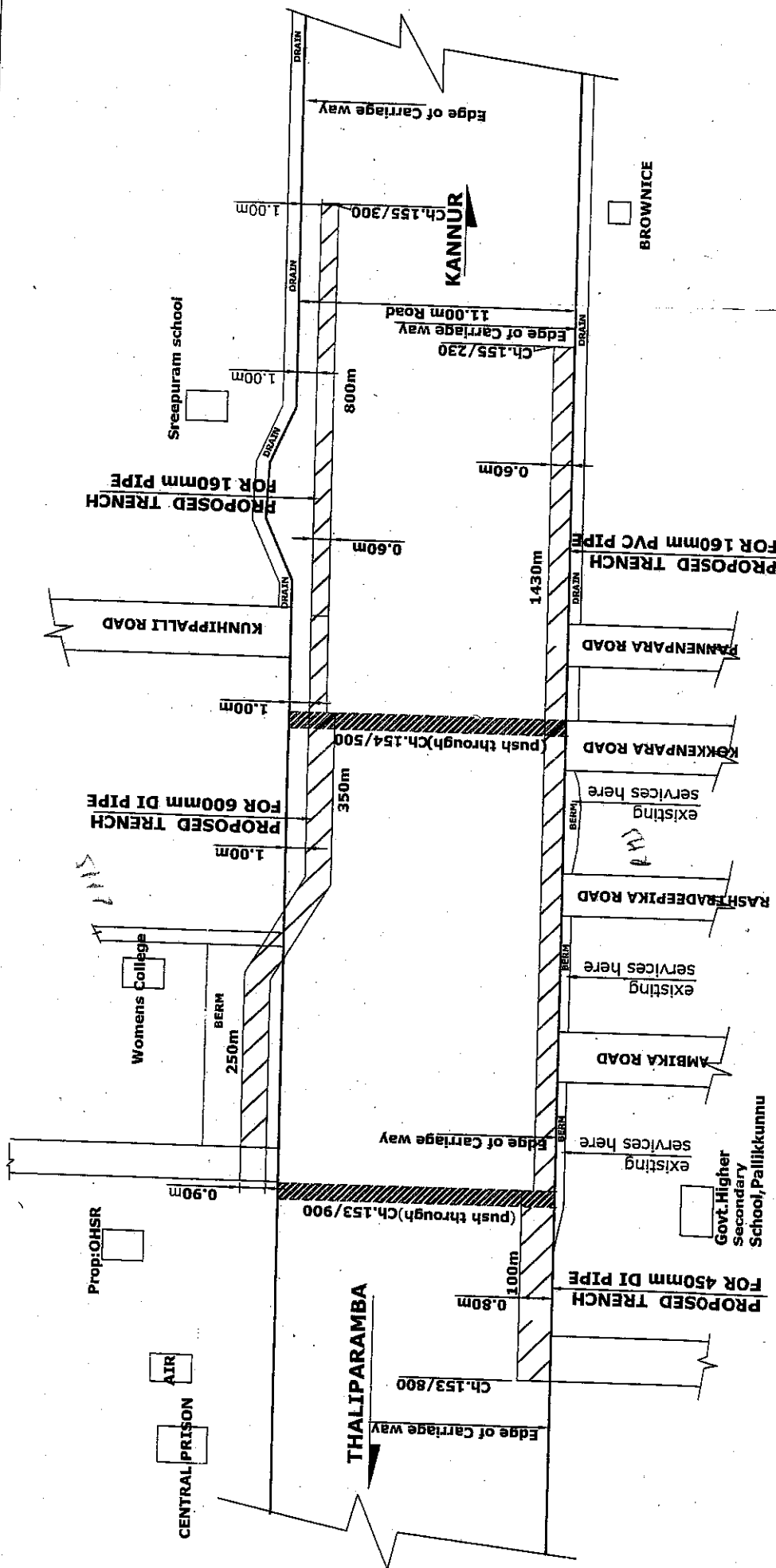
	undertaking any work for installation, shifting or repairs or alterations to the utility line located in the National Highway right of ways.		
5.7	Undertaking the expenditure if any incurred by PWD/MoRTH/NHAI for repairing any damage caused to the national highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owing the line.	Yes	
5.8	Undertaking the text of license deed is as per verbatim of MoRTH format (issued by ministry's Circular number RW/NH-33044/29/2015/S&R(R) dated. 22.11.2016.	Yes	
5.9	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 organization, oil industry safety directorate state/central pollution control board and any other statutory clearances as applicable before applying to the highway administrations.	Yes	
5.10	Undertaking that the utility line will be shifted by the utility agency at the cost of the agency, owing the utility line, if the MoRTH/NHAI/PWD consider it necessary in future to shift the utility line for expansion of road.	Yes	
6	Who will sign the agreement on behalf of utility line agency.	Executive Engineer (KWA)	
	Power of attorney to sign the agreement is available or not.		
7	Certificate from PD NHAI/Executive Engineer, PWD as per the format.		

  
**PRAVEEN. K**  
 ASSISTANT ENGINEER, PWD  
 NATIONAL HIGHWAY SECTION  
 KANNUR

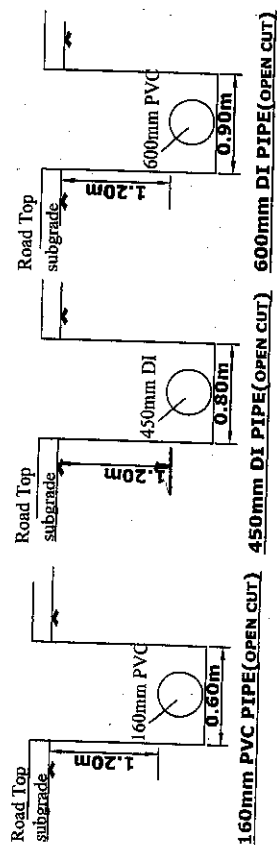
  
**SASI. K.V**  
 Assistant Executive Engineer  
 PWD National Highway Sub Division  
 Kannur

  
 Executive Engineer  
 National Highway Division  
 KANNUR





## DETAILS OF NH ROAD(153/800 to 155/300)

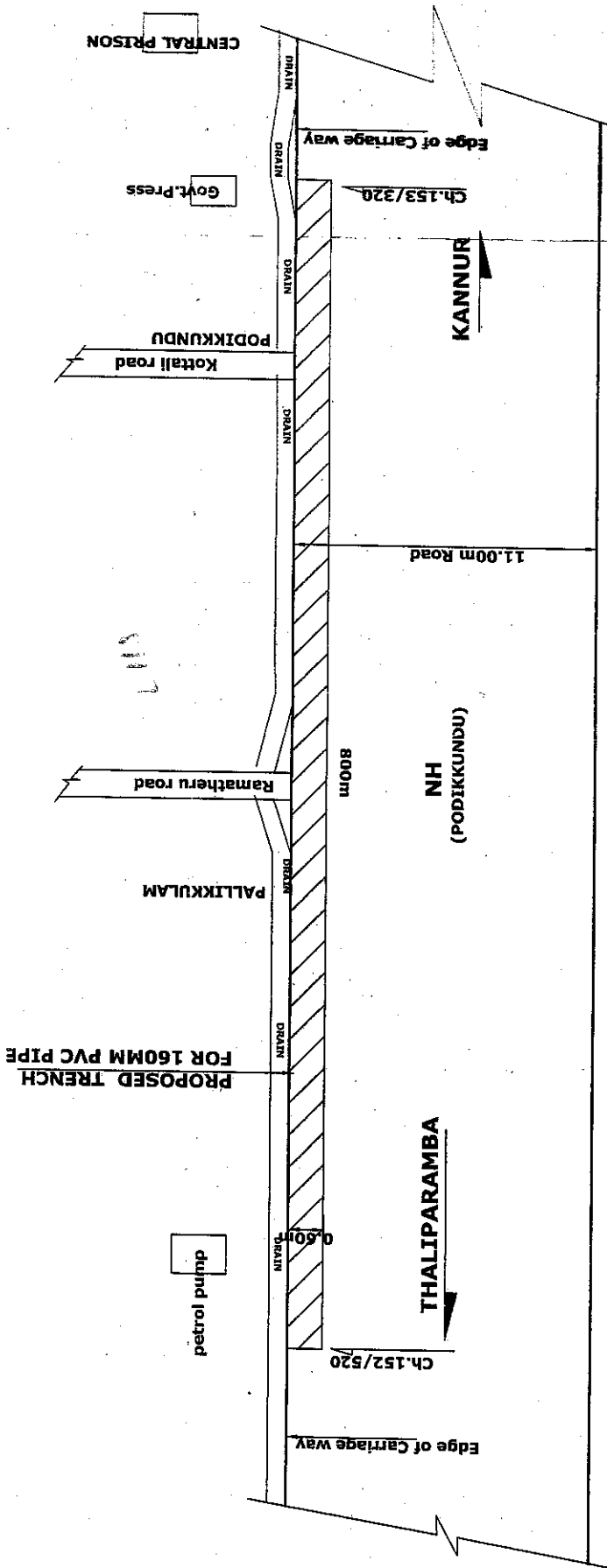


## TRENCH DETAILS

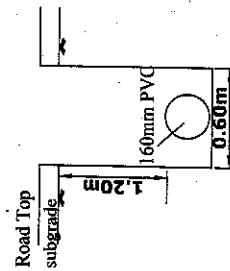
PROPOSED TRENCH FOR PIPE	
PUSH THROUGH	
AMRUT - WSS TO KANNUR CORPORATION-REHABILITATION OF EXISTING OLD DISTRIBUTION NETWORK IN PALLIKUNNU & PUZHATHI ZONE	
KERALA WATER AUTHORITY PROJECT SECTION I. KUTHUPARAMRA	

Handwritten notes and signatures, including a date stamp "15/11/2018" and a signature "He".

Executive Engineer  
National Highway Division  
J. A. 4. 11. 18



## DETAILS OF NH ROAD(CH:152/520 TO 153/320)



## TRENCH DETAILS(OPEN CUT)

PROPOSED TRENCH  
FOR PIPE

AMRUT - WSS TO KANNUR CORPORATION-  
REHABILITATION OF EXISTING OLD  
DISTRIBUTION NETWORK IN  
PALLIKUNNU & PUZHATHI ZONE

KERALA WATER AUTHORITY  
PROJECT SECTION I, KUTHUPARAMBA

Executive Engineer  
National Highway Division  
KANNUR

Assistant Executive Engineer  
N.H.D. KANNUR