



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India

(सड़क परिवहन एवं राजमार्ग मंत्रालय)

(Ministry of Road Transport and Highways)

परियोजना कार्यान्वयन इकाई : कृष्णागिरि

Project Implementation Unit : Krishnagiri

259/1, सेलम मेन रोड, केएकेसी पेट्रोल पम्प के पास, कृष्णागिरि (तमिलनाडु) - 635 001

259/1, Salem Main Road, Near KAKC Petrol Bunk, Krishnagiri (Tamil Nadu) - 635 001.

Phone : 04343 234250
Fax : 04343 236208
Email : Kri@nhai.org
nhai.krishnagiri@gmail.com



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

No. NHAI/11013/TWAD/2021/PIU-K'giri/ 1509

10th November 2021

Invitation of Public Comments

Sub: NHAI, PIU, Krishnagiri- Laying of water pipeline along the road from km.69/928 to km.70/132 (LHS) for a total length of 204m and one road crossing at km.70/132 by trenchless technology of Krishnagiri – Walajahpet section of NH-48 (Old NH-46) by Executive Engineer, TWAD Board, Vellore – Reg.

The proposal is regarding permission for Laying of water pipeline along the road from km.69/928 to km.70/132 (LHS) for a total length of 204m and one road crossing at km.70/132 by trenchless technology of Krishnagiri – Walajahpet section of NH-48 (Old NH-46) by Executive Engineer, TWAD Board, Vellore submitted to this office on 09.11.2021.

2. The details of the proposal is as under:

- The above proposal pertains to the laying of water pipeline along the road from km.69/928 to km.70/132 (LHS) for a total length of 204m and one road crossing at km.70/132 by trenchless technology of Krishnagiri – Walajahpet section of NH-48 (Old NH-46).
- The details of ROW available along with the distance at which water pipeline is proposed to lay from the centerline is as follows:

Sl no.	Description	Length in mtrs	ROW in Meters		Distance of OFC from centerline of the Main Carriageway	
			LHS	RHS	LHS	RHS
1	Km.69/928 to Km.70/132(LHS)	204	23.00	23.00	22.00	
One road crossing at km.70/132						

G:\KRISHNAN-2\Access Permission\TWAD\PIU to CGM (T) & RO for approval.docx

[Handwritten signature]

3. Executive Engineer, TWAD Board, Vellore proposed to lay water pipeline along the road by trenchless technology. It is proposed to lay 400mm dia CI-LA class pipe (1 nos.) along the road by trenchless technology duly keeping the top of the casing at 1.55 m below the top of sub grade level. Further, the applicant has proposed to lay the 800mm dia MS Pipe water pipeline across NH by trenchless technology, duly keeping the top of the MS pipe at a depth of 2.0m below the top of sub grade level.

4. Executive Engineer, TWAD Board, Vellore furnished an undertaking to indemnify the concerned agency in coordination with NHAI, against all damages and claims if any, for laying water pipeline.

5. As per the guidelines issued by the Ministry vide letter No.RW/NH33044/29/2015/ S&R(R) dated 22.11.2016, the proposal submitted by Executive Engineer, TWAD Board, Vellore will be made available for 30 days seeking public comments/objections and the comments shall be furnished within 30 days from the day of closure of public objections.

In view of the above, comments of the public on the above proposal are invited any may be sent to the below mentioned address:

The Project Director,
National Highways Authority of India,
Project Implementation Unit,
No.259/1, Salem Main Road,
Near KAKC Petrol Bunk,
Krishnagiri (T.N) - 635 001

Yours faithfully,


(G.Athipathi)
Project Director

Copy to:

1. Regional Officer, NHAI, Chennai Region, Chennai – for kind information.
2. NHAI website.
3. The NIC, New Delhi- for uploading in the Ministry's website.



TAMILNADU WATER SUPPLY AND DRAINAGE BOARD
Phone / Fax No: 0416 – 2242572
E.Mail : eevlrws2021@gmail.com



From

Er.P.Ramsekar,B.E.,
Executive Engineer,
TWAD Board, RWS Division,
No:15, Aruppumettu Salai,
Madhi Nagar,Vellore -7.
Phone No: 0416 2242572.

To

The Project Director,
National Highways Authority of India,
Krishnagiri.

Lr.No. F.Ambur UGSS/NHAI/ JDO / RWS / VLR / 2021 / dt. 01.11.2021

Sir,

Sub: UGSS to Ambur Municipality under AMRUT-Permission for laying of Pumping Main (SPS to STP) pipe line along NHAI in NH48 - KM 69/928 to 70/132 for a total length of 204m and crossing at Km 70/132 by trenchless technology Requested on Krishnagiri – Walajah road of NH-48 – Proposal - Submitted - Regarding.

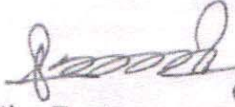
- Ref:** 1) EE/TWAD/RWS/Vlr Lr.no F.Ambur-UGSS/AMRUT/JDO / RWS/Vlr/2019/ dt.22.05.19
2) EE/TWAD/RWS/Vlr Lr.no F.Ambur-UGSS/AMRUT/JDO / RWS/Vlr/2019/ dt.19.05.19
3) PD /Krishnagiri. Lr.No.11013/181 /TWAD /2019 /PIU-Kgiri /1082/ dt:20.06.2019
4) PD /Krishnagiri. Lr.No.11013/18 /TWAD /2020 /PIU-Kgiri /820/ dt:01.07.2020.
5) EE/TWAD/RWS/Vlr Lr.no F.Ambur-UGSS/NHAI/JDO/RWS/Vlr/2020/ dt.01.12.2020.
6) District Collector, Thirupattur Lr.No.T1/10475/2020/Dt.18.12.2020.
7) PD /Krishnagiri. Lr.No.11013/18 /TWAD /2020 /PIU-Kgiri /820 / dt: 05.03.2021.
8) EE/TWAD/RWS/Vlr Lr.no F.Ambur-UGSS/NHAI/JDO/RWS/Vlr/2020/ dt.31.03.2021.
9) Joint inspection of NHAI with TWAD & Municipal officials on 23.10.2021.


With reference to the above letters cited, I submit herewith the proposals for laying of sewer pipeline along the road and across the road for the following in Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu.

Sl. No	Name of scheme	Chainage Details	Total length(m) / Crossing(No)
1	UGSS to Ambur Municipality under AMRUT	KM 69/928 to 70/132 (LHS) for a total length of 204 m and across the road @ KM 70/132	204 m 1 No

Hence I request that the above proposal may please be approved and intimate to this office for early completions of the works.

Encl: Proposal- 1 No.


01/11/2021
Executive Engineer, TWAD Board
RWS Division, Vellore-7.


01/11/2021



TAMILNADU WATER SUPPLY AND DRAINAGE BOARD

Phone / Fax No: 0416 – 2242572

E.Mail : eevlrrws2021@gmail.com



From

Er.P.Ramsekar,B.E.,
Executive Engineer,
TWAD Board, RWS Division,
No:15, Aruppumettu Salai,
Madhi Nagar,Vellore -7.
Phone No: 0416 2242572.

To

The Project Director,
National Highways Authority of India,
Krishnagiri.

Lr.No. F.Ambur UGSS/NHAI/ JDO / RWS / VLR / 2021 / dt. 01.11.2021

Sir,

Sub: UGSS to Ambur Municipality under AMRUT-Permission for laying of Pumping Main (SPS to STP) pipe line along NHAI in NH48 - KM 69/928 to 70/132 for a total length of 204m and crossing at Km 70/132 by trenchless technology Requested on Krishnagiri – Walajah road of NH-48 – Proposal - Submitted - Regarding.

- Ref:** 1) EE/TWAD/RWS/Vlr Lr.no F.Ambur-UGSS/AMRUT/JDO / RWS/Vlr/2019/ dt.22.05.19
2) EE/TWAD/RWS/Vlr Lr.no F.Ambur-UGSS/AMRUT/JDO / RWS/Vlr/2019/ dt.19.05.19
3) PD /Krishnagiri. Lr.No.11013/181 /TWAD /2019 /PIU-Kgiri /1082/ dt:20.06.2019
4) PD /Krishnagiri. Lr.No.11013/18 /TWAD /2020 /PIU-Kgiri /820/ dt:01.07.2020.
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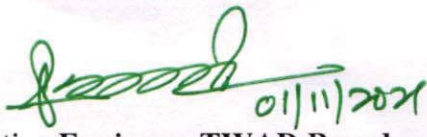
With reference to the above letters cited, I submit herewith the proposals for laying of sewer pipeline along the road and across the road for the following in Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu.


Dy.No.	4262
Date.	09/11/21
PD	<i>[Signature]</i>
Mgr (T)	
M (F & A)	

Sl. No	Name of scheme	Chainage Details	Total length(m) / Crossing(No)
1	UGSS to Municipality AMRUT	Ambur under KM 69/928 to 70/132 (LHS) for a total length of 204 m and across the road @ KM 70/132	204 m 1 No

Hence I request that the above proposal may please be approved and intimate to this office for early completions of the works.

Encl: Proposal- 1 No.


 Executive Engineer, TWAD Board
 RWS Division, Vellore-7.


 01/11/2021

Check list for getting approval for laying of water supply/sewage pumping pipe line on NH land.

Sl.No	Item	Information/Status	Remarks
1	GENERAL INFORMATION		
1.1	Name and Address of the Applicant/Agency	Executive Engineer/ TWAD Board, RWS Division, Vellore.	
1.2	National highway number	NH-48 (Krishnagiri - Walaja Road)	
1.3	State	Tamil Nadu	
1.4	Location	Ambur	
1.5	Chainage in Km	1)Along the road from Km 69/928 to 70/132 (LHS) 2)Crossing the road @ Km 70/132	
1.6	Length in Meters	204 m	
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		
1.8	Proposal to lay pipeline		
	(a) left side from center line towards increasing chainage /Km direction	Near the ROW	
	(b) right side from center line towards increasing chainage /Km direction		
1.9	Proposal to acquire land		
	(a) left side from center line	Nil	
	(b) right side from center 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	The pipe line shall be laid at the extreme end of ROW	
1.11	Details of already laid services,if any,along the proposed route	Nil	
1.12	Number of lanes (2/4/6/8) existing	6 lane with paved shoulders	
1.13	proposed number of lanes (2lanes with paved shoulders 4/6/8 lanes)	6 lane with paved shoulders	
1.14	service road existing or not	Not	
	if yes then which side		
	(a) left side from center line	-	
	(b) right side from center line	-	


 Executive Engineer / TWAD,
 R.W.S.Division, Vellore-7

Sl.No	Item	Information/Status	Remarks
	proposed service road	-	
1.15	(a) left side from center line	shown in diagram	
	(b) right side from center line	shown in diagram	
1.16	whether proposal to lay water supply/ Sewage pumping pipe line is after the service road or between the service road and main carriageway	After the service road along utility corridor at ROW edge	
1.17	The permission for laying of Water supply/sewage pipe line shall be considered for approval/rejection based on the ministry circulars mentioned as above (a) carrying of sewage/gas pipe lines on highway bridges shall not permitted as fumes/gases pipe can accelerate the process of corrosion or may cause explosions,thus,being much more injurious than leakage of water. (b)carrying of water pipe lines on bridges shall also be discouraged.however,if the Water supply/sewage authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized,they may be permitted to carry the pipr line on independent superstructure,supported on extended portions of piers and abutments in such a manner that in the final arrangement enough free spade around the superstructure nof the bridge remains available for inspection and repairs,etc.	Not applicable	
	(c) cost of required extension of the substructure as well as that of the supporting superstructure shall be borne by the agency- in-charge of the utilities. (d)services are not being allowed indiscriminately on the parapet/any part of the bridges, safety of the bridges has to be kept in view while permitting various services along bridge.approvals are to be accorded in this regard with the concurrence of the ministry project chief engineers only.	Not applicable	
1.18	If crossing of the road involved if yes, it shall be either encased in pipes or through structure of conduits specially built for that purpose at the expenses of the agency owning the line	-	
	(a) existing drainage structures shall not be allowed to carry the lines	-	
	(b)is it on a lines normal to NH	-	



 Executive Engineer / TWAD,
 R.W.S.Division, Vellore-7

Sl.No	Item	Information/Status	Remarks
	(c)crossing shall not be too near the existing strutures on the national highway,the minimum distance being 15m.what is the distance from the existing structures	More than 15m from the existing structrues	
	(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	CI/MS/DI Pipes with Adequate strength	
	(e) ends of the casing / conduit pipe shall be sealed from the outside, so that is does no 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 fills	Yes	
	(g)the top of the casing/conduit pipr should be at least 1.2m below the surface of the road subject to being at least 0.3m below the drain inverts.	Yes	
	(h)crossing shall be by boring method (HDD)specially where the existing road pavement is of cement concrete or dense bitumious concrete type.	Yes, Pushning and Jacking methodology will be adopted	
	(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.	Yes	
2	document/drawings enclosed with the proposal		
2.1	cross section showing the size of trench for open trenching method (is it normal size of 1.55 m deep x 0.9m wide)	Yes	
	(i) should not be greater than 60cm wider than the outer diameter of the pipe (ii)located as close to the extreme ege of the right of the way as possible but not less than 15m from the centre line of the nearest carriageway (iii)shall not be permitted to run along thre national 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 laide that their top is at least .6 m below the ground level so as not to obstruct drainage of the road land	Yes	



Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

Sl.No	Item	Information/Status	Remarks
2.2	cross section showing the size of pit and location of cable HDD method	Yes, C78	
2.3	strip plan/route plan showing water supply/ sewage pipe line, chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes, Shown in diagram	
2.4	Methodology for laying of showing water supply/ Sewage pipe line		
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 methodology of refilling of trench	Open trench is proposed along the extreme edge of ROW of NH. Back fill the soil excavated with compaction @ every 300 mm	
	(a) the trench width should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes	
	(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 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	
	(d) the side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the proctor's Density. over fill shall be compacted to the same density as the material that had been removed. consolidation by saturation or ponding will not be permitted.	Yes	
	(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	


 Executive Engineer / TWAD,
 R.W.S. Division, Vellore-7

Sl.No	Item	Information/Status	Remarks
	(f) the excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	Yes	
	(g) if required, a diversion shall be constructed at the expense of agency owning the utility line.	-	
2.4.2	horizontal directional drilling (HDD) method	-	
2.4.3	laying of water supply/Sewage pipe line through CD works and method laying	Does not arise	
	(a) on approaches, the water mains/cables shall be carried along a line as close to the edge of the right-of way as possible up to a distance of 30m from the bridge and subject to all other stipulations contained in this ministry guidelines issued with letter no NH-HI/P/66/76 dated 19.11.1976	Yes	
3	Draft license Agreement signed by two witness	Yes	
4	performance bank guarantee in favour of NHAH has to be obtained @ RS 50/- per running meter (parallel to NH) and Rs.1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the cables/ducts by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of the way. no payment shall be payable by the NHAH to the licensee for clearing debris/loose earth	Yes	
4.1	performance BG as per above is to be obtained	Shall be submitted on approval	
4.2	Confirmation of BG has been obtained as per NHAH guidelines		
5	Affidavit/undertaking from the Applicant for		
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAH or to the concerned agency.	Yes	
5.2	Renewal of bank guarantee	Yes, Will be obtain submission of BS	
5.3	confirming all standard condition of NHAH'S guideline	Yes	
5.4	shifting of water supply/sewage pipe line as and when required by NHAH at their own cost	Yes	


 Executive Engineer / TWAD,
 R.W.S.Division, Vellore-7

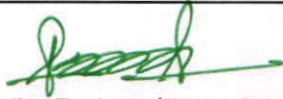
Sl.No	Item	Information/Status	Remarks
5.5	shifting due to lanning/widening of NH	Yes	
5.6	indemnity against all damages and claims clause (xxiv)	Yes	
5.7	traffic movement during laying of Water supply/sewage pipe line to be managed by the applicant	Yes	
5.8	if any claim is raised by theconcessionaire then the same has to be paid by the applicant	Not applicable	
5.9	prior approval of the NHAI shall be obtained before undertaking any work of installation ,shifting or repairs,or alteration to the showing Water supply/sewage pipe located in the nation highway right-of-ways.	Yes	
5.10	Expenditure, if any incurred by NHAI for repairing any damage caused to the national highway by the laying,maintenance or shifting of the Water supply/sewage pipe line will be borne by agency owning the line.	Yes	
5.11	if the 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 NHAI at the cost of the agency owing the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes	
5.12	certificate from the applicant in the following format (i) Laying of sewage pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) For 6-lanning 'We do undertake that I will relocate service road/apporach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development."	Yes	


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

Sl.No	Item	Information/Status	Remarks
6	Who will sign the agreement on behalf of water supply/sewage pipe line agency	Executive Engineer/ TWAD Board, RWS Division, Vellore.	
7	Certificate from the Project Director	Enclosed	
7.1	Certificate for confirming of all standare condition issued vide Ministry guidelines No. RW/NH-33044/29/2015/S&R(R) dated: 22.11.2016.	Yes/No	
7.2	Certificate from PD in the following format (i) "It is certified that any other location" of extremely difficult and unreasonable costly and the installation of Water supply/sewage pipeline 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-lanning 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-lanning".	Yes/No	
8.1	Certificate for confirming of all standare condition vide Ministry guidelines No. RW/NH-33044/29/2015/S&R(R) dated: 22.11.2016.	Yes	
8.2	Certificate for 6-lanning (a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-lanning 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-lanning".	Yes, Enclosed	
9	who will supervise the work of laying of water supply/sewage pipe line	TWAD Board Engineers	


 Executive Engineer / TWAD,
 R.W.S.Division, Vellore-7

Sl.No	Item	Information/Status	Remarks
10	Who will ensure that the defects in road portion after laying of sewage pipe line are corrected and if not corrected and if not corrected and if not corrected then what action will be taken	TWAD Board	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire	TWAD Board	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa(copy enclosed)	Yes	
13	If any previous approval is accorded for laying of underground sewage pipe line then photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	No	



Executive Engineer/TWAD Bd,
RWS Division, Vellore.

Project Director
NHAI-PIU-Krishnagiri



தமிழ்நாடு தமிலநாடு TAMIL NADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION, VELLORE.

82AB 416571

M. யுகேஷ், பி.ஏ.,

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பூர்-635 802. திரு.மா.

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY

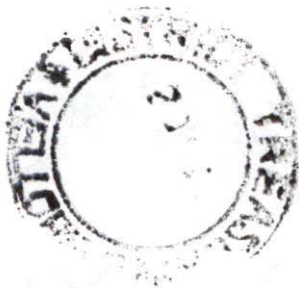
PERMISSIONS

FOR LAYING OF PIPE LINE ON NATIONAL HIGHWAYS

Agreement to lay sewage pumping pipe line along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu.

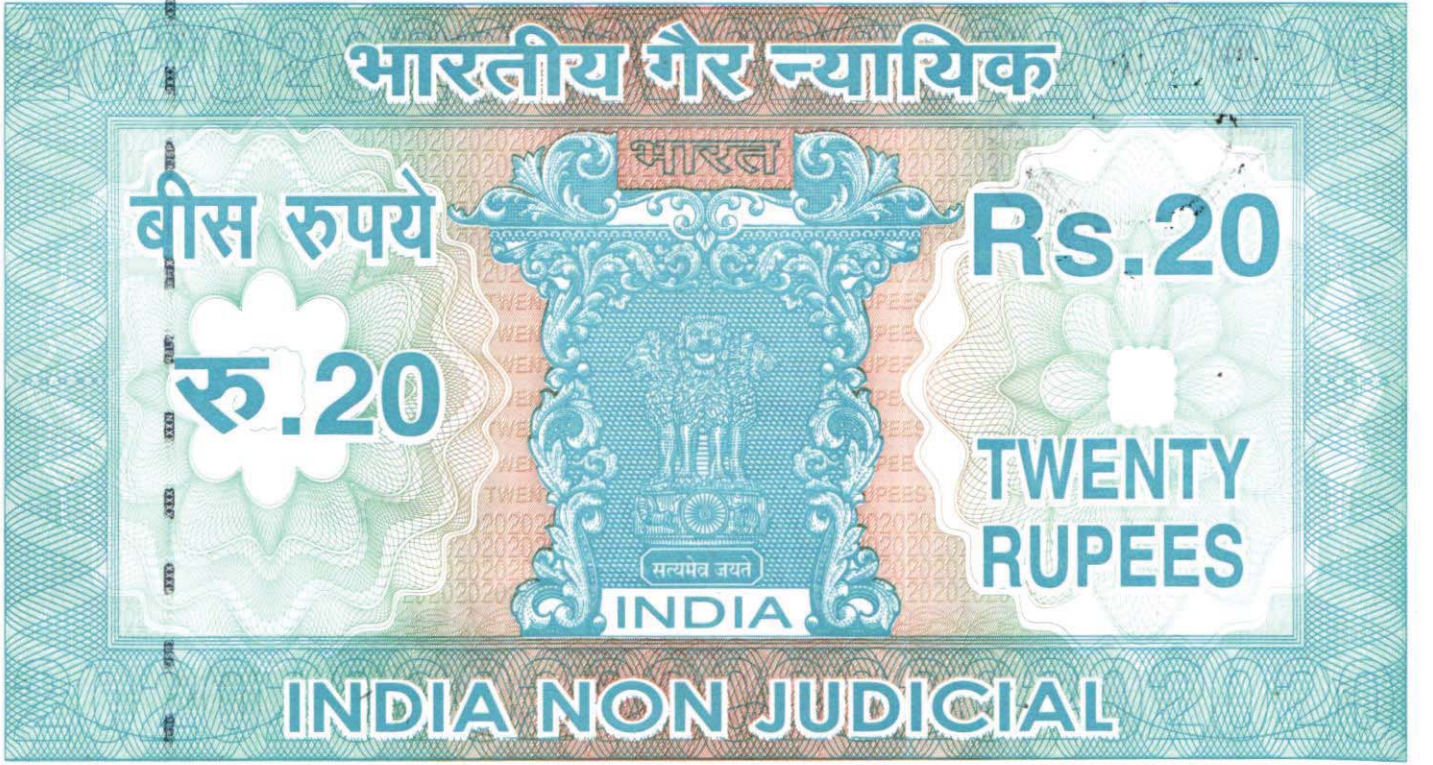
This Agreement made thisday of(month) of (year) between.....
Acting in his executive capacity through(hereinafter referred to as the "Authority " which expression shall unless excluded by or repugnant to the context include his successors in office and assigns) on the one part, an.....) which expression shall unless excluded by repugnant to the context, include his successors/administrator assignees on the second part.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



58 OCT 30 1951

W. R. Division, New York
100-100000-100000



தமிழ்நாடு தமில்நாடு TAMIL NADU
28 OCT 2021
EXECUTIVE ENGINEER
TWAD BOARD.
RWS DIVISION, VELLORE.

82AB 416562
M. யுசேஷ், பி.ஏ..
முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பூர்-635 802. திரு.மா.

Where the Authority is responsible, inter-alia, for development and maintenance of lands in NH-48 Agreement to lay sewage pumping pipe line along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48.

Whereas the licensee has applied to the Authority for permission to lay utility services in NH-48 Agreement to lay sewage pumping pipe line along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48.

And whereas the authority has agreed to grant such permission for way leave on the NH row as per terms and conditions hereinafter mentioned.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



சென்னை-632 805 திரு. க.
பெரியம் எண்: 241AMM15008
குத்திரம் தலை நிர்வாகம்

EXCISE ENGINEERS
Road Bank
2413 Division

5 8 OCT 2021

Executive Engineer
2413 Division



தமிழ்நாடு தமி்லநாடு TAMIL NADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD

RWS DIVISION, VELLORE.

82AB 416563

M. yueesh
M. யுகேஷ், பி.ஏ..

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பூர்-635 802, திரு.மா.

Now this agreement witness that in consideration of the conditions hereinafter contained and on the part of the licensee to be observed and performed, the Authority hereby grants to the licensee permissions to lay utility services as per approved drawing attached here to subjected to the following conditions namely:

1. Row permissions are only enabling in nature. The purpose of extending the leave facility on the national highway. Row is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No licensee shall claim exclusive right on the ROW and any subsequent user will be permitted to use the ROW, either above or below, or by the side of the utilities laid by the first user, subject to technical requirement being fulfilled, Decision of the Authority in relation to fulfillment of technical requirement shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the authority shall not be held accountable or liable in any manner.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

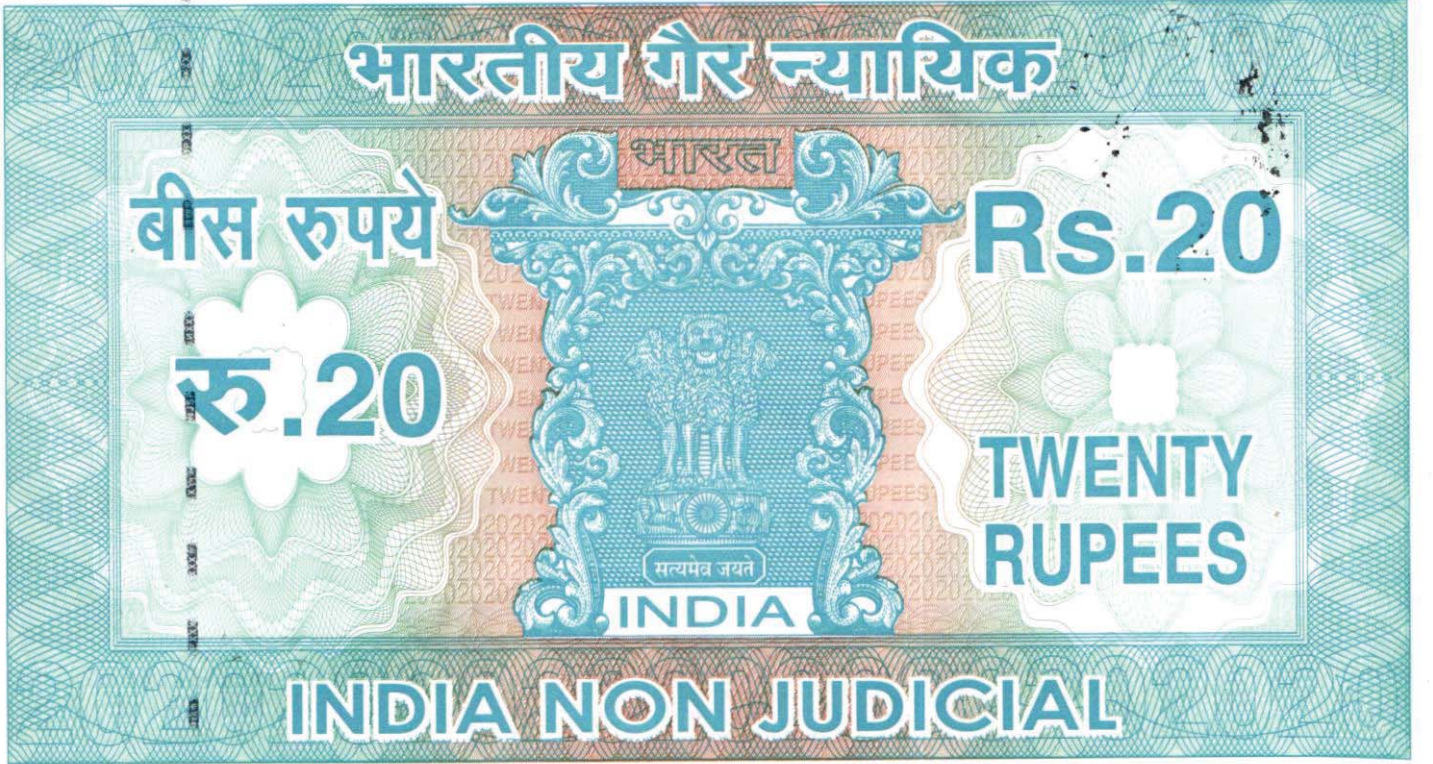


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OFFICE OF THE
SECRETARY OF THE
AIR FORCE

EXECUTIVE BOARD
2412 DIVISION, VETERANS

28 OCT 1962

Executive Engineer
2412 DIVISION, VETERANS



தமிழ்நாடு தமிலநாடு TAMIL NADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION, VELLORE.

82AB 416564

M. யு. ஸ்ரீராம்
M. யு. ஸ்ரீராம், பி. ஏ.,

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பூர்-635 802. திரு. மா.

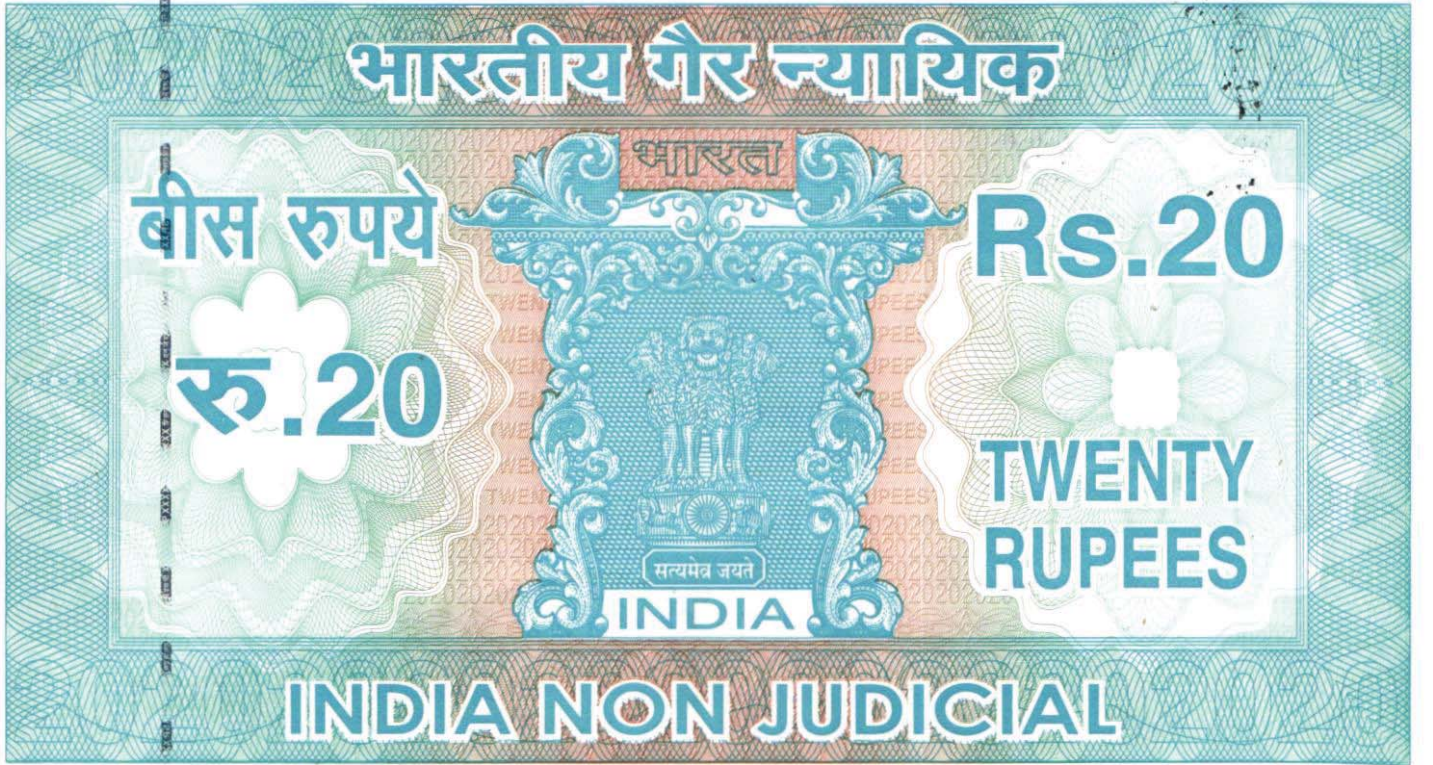
3. The Licensee shall be responsible for undertaking all activities including but not limited to site identification, survey, design, engineering arranging, finance, project management, obtaining regulatory approvals & necessary clearances supply of equipment material, construction, erection, testing and commissioning, maintenance and operation and all other activities, essential or required for efficient functioning of their own utility industrial infrastructure facilities.
4. The licensee shall pay license fees @ Rs/sq m /month to the Authority. The licensee fee shall become payable from the date of handing over of ROW land to the licensee, for laying of utilities/cables/conduits/pipelines for infrastructure/ service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



100 100 8 2


[Signature]



தமிழ்நாடு தமில்நாடு TAMIL NADU
28 OCT 2021
EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION, VELLORE.

82AB 416565
M. யு.லக்ஷ்மி
முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பூர்-635 802. திரு.மா.

6. Present policy of the MoRT&H is to provide a 2.00 m a wide utility corridor on either side of the extreme edge of Row. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The Utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains, other road side furniture etc: the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/ parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the authority shall be payable by the Licensee.



Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



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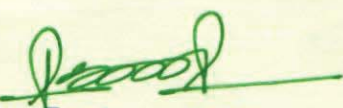
9. In exceptional cases, where RoW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 metre below the ground level. However any structure above ground shall be aesthetically provided for / landscaped safety measures as directed by the concerned Authority.
11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the specifications of the Ministry.
12. Existing drainage structures shall not be allowed to carry the lines across.
13. The top of the casing/conduit 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. A typical sketch showing the clearances is given in Attachment-I.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30cm. but not more than 60cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
 - i. Bedding shall be to a depth not less than 30cm. 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 edges should be excavated and replaced by selected material.
 - ii. The backfill shall be completed in two stages (i) side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
 - iii. The side fill shall consist of granular material laid in 15cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

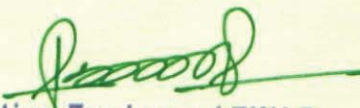
- iv. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the highway Authority.
17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.
18. All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the authority as per predetermined time schedule and quality standards.
19. Prior to commencement of any work on the ground, a performance Bank guarantee @Rs. Per route metre /Rs. Per sq.m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority its designated agency as a security against improper restoration of ground in terms of filling / unsatisfactory compaction damages caused to other underground installations utility services & interference, interruption, disruption, or failure caused thereof any services etc. in case of licensee failing to discharge the obligation of making good of te excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
20. In case, the Performance Bank guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 Months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the ROW facility.
21. The Licensee shall shift the utility services within 90 days (or as specified by the respective authority) from the date of issue of the notice by the concerned authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/ widening of the road/route/highway or construction of flyover/bridge and restore the road / land to its original condition at his own cost and risk.
22. The Licensee shall be responsible to ascertain from the respective agency in co- ordination with Authority, regarding the location of other utilities/ underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations / utilities / facilities etc. before commencement of the excavation / using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/ utilities /facilities etc.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

23. The Licensee shall be solely responsible / liable for full compensation/ indemnification of concerned agency / aggrieved Authority for any direct, indirect or consequential damage caused to them / claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in co-ordination with Authority shall also have a right make good such damages / recover the claims by forfeiture of Bank Guarantee.
24. If the licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of Licensee is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench / other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform / give a notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/ repair works. A separate performance Bank guarantee for maintenance/ repair works shall have to be furnished by the Licensee.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day, filling should be completed to the satisfaction of the concerned agency designated by the Authority.
28. The Licensee shall indemnify the concerned agency in co- ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

31. That the Licensee shall not undertake any work of shifting, repairs or alternations to the utility services without prior written permission of the concerned agency in co- ordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/ road/ highway/ and / property. Other than what is herein expressly granted. No use of NHROW will be permitted for any purpose other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty charged on this Agreement.
35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo - tagged photographs and geo- tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the site at all times to the authorized representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The Utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co- ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellations nor shall it be absolved from any liability already incurred.
38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation repair and maintenance of any part of the utility lines/ industrial infrastructure facilities and which practice, methods and standards shall be adjusted as necessary, to take account of:
 - a. Operation, repair and maintenance guidelines given by the manufactures.
 - b. The requirements of Law.
 - c. The physical conditions at the Site, and
 - d. The safety of operating personal and human beings.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

39. The Licensee shall have to provide safety measure like barricading, danger lighting and other necessary caution boards while executive the work.
40. While laying utility services, at least one land of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of licensee.
41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be bought back to the original condition failing which the licensee will lose the right to remove the utility services. however before taking up the work of removal of utility services the licensee shall furnish a bank guarantee to the authority for period of one year for an amount assessed by the authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the ROW.
42. Any disputes in interpretation of the terms and condition of this agreement or their implementation shall be referred to the redress mechanism prevailing in the ministry and the decision of the redress mechanism shall be final and binding on all.
43. For PPP projects in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the licensee, compensation for the same shall be required to be borne by the licensee in mutual agreement with the respective project concessionaires PORT& H/NHAI/implementing authorities for the project shall not liable to the concessionaire in any way in this regards.

This agreement has been made in duplicate, each on a stamp paper each party to this agreement has retained one stamped copy each.

IN WITNESS WHERE OF THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED THROUGH THEIR RESPECTIVE AUTHORISED REPRESENTATIVES THE DAY AND THE YEAR FIRST ABOVE WRITTEN.

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BY SHRI.....

(SIGNATURE, NAME& ADDRESS WITH STAMP)

Executive Engineer / TWAD,
R.W.S.Division, Vellore-7

SIGNED ON BEHALF OF (LICENSEE)

BY SHRI.....

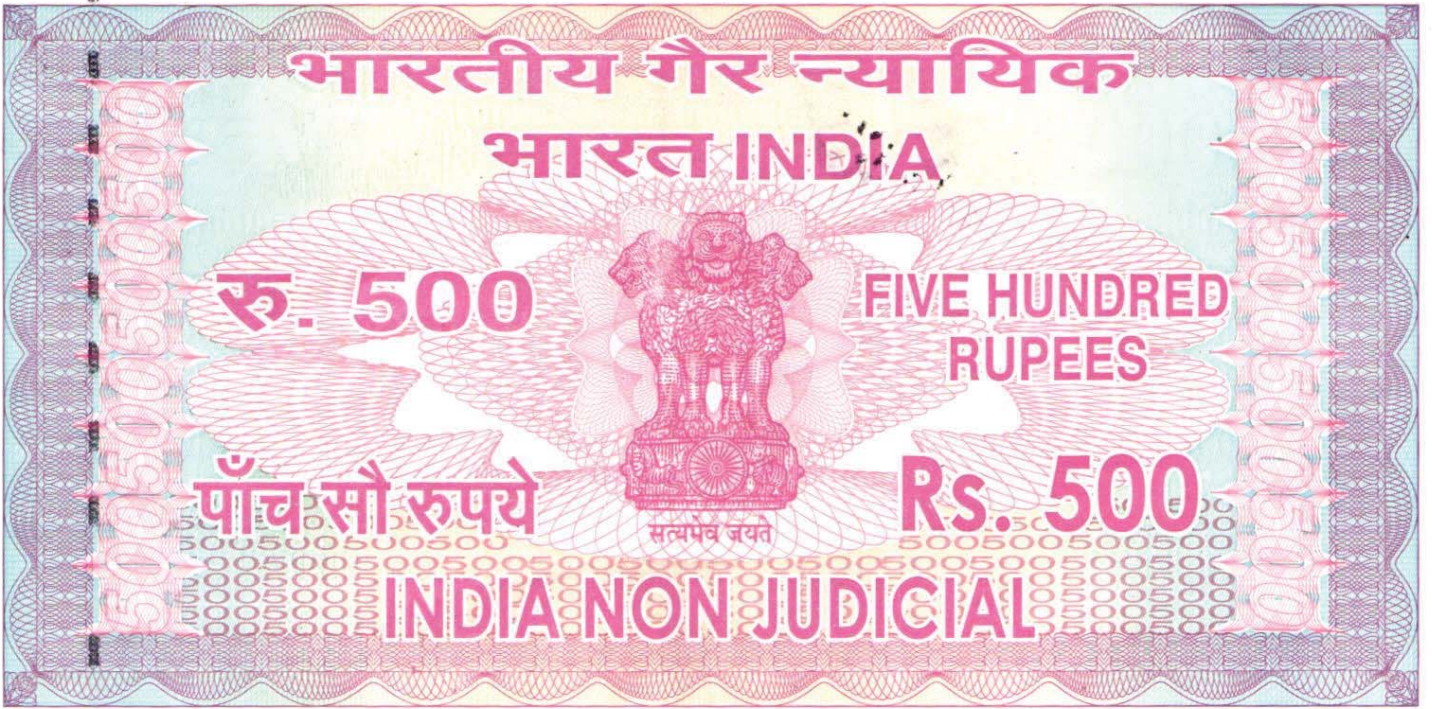
(SIGNATURE, NAME & ADDRESS WITH STAMP)

HOLDER OF GENERAL POWER OF ATTORNEY DATEDEXECUTED IN ACCORDANCE WITH THE
RESOLUTION NO.DATEDPASSED BY THE BOARD OF DIRECTORS IN
THE MEETING HELD ON

IN THE PRESENCE OF (WITNESS)

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தமிழ்நாடு தமில்நாடு TAMILNADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD
RWS Annexure W, VELLORE.
INDEMNITY BOND

AC 248743
M. யுகேஷ், பி.ஏ.

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பூர்-635 802. திரு.மா.

Name of Work: Laying of sewage pumping pipe line along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu.

Indemnity against all damages and claims as per SL.NO 5.6 of check list

We Executive Engineer, TWAD Board, RWS division, Vellore Tamil Nadu State do hereby Indemnify Project Director, National Highways Authority of India, Project Implementation Units, binding ourselves to pay all the losses and claims in respect of laying pipeline along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu or maintenance thereof and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof in relation there to. Failing such payments of claims in the above work we abide in accepting for recovery of such claims affected from any of our assets.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



தமிழ்நாடு தமிலநாடு TAMIL NADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION, VELLORE.
Annexure-v

82AB 416566
M. முகேஷ், பி.ஏ.,

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2005
ஆம்பூர்-635 802. திரு.மா.

UNDERTAKING

We, Executive Engineer, TWAD, RWS Division, Vellore, Tamil Nadu State. Laying sewage pumping pipe line along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu.

We here by undertake the Standard conditions of NHAI Guidelines:

1. Not to Damage to Other Utility, if damaged then to pay the losses either to NHAI or to the concerned agency: Regarding the location of other pipes, underground installation/utilities etc. Executive Engineer, TWAD Board, RWS Division, Vellore shall be responsible to ascertain from the respective agency in coordination with NHAI. Executive Engineer, TWAD Board, RWS Division, Vellore shall ensure the safety and security of already existing pipes/underground installation/utilities facilities etc., before commencement of the excavation.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



தமிழ்நாடு தமிழ்நாடு TAMIL NADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION, VELLORE.

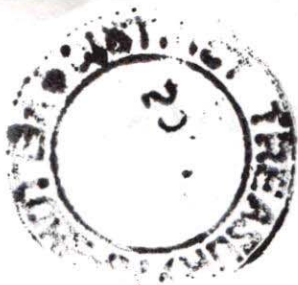
82AB 416567

M. யுவேஸ், பி.ஏ..

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆம்பர்-635 802 திரு.மா.

2. **Renewal of Bank Guarantee:** Executive Engineer, TWAD Board, RWS Division, Vellore shall furnish a Bank Guarantee @ Rs.100/- per running meter to the NHAI, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring / making good the excavated trench for laying the pipe lines by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right way. No payment shall be payable shall be payable by the NHAI to Executive Engineer, TWAD Board, RWS Division, Vellore for clearing debris/loose earth. In case the work contemplated herewith is not completed to the satisfaction of the NHAI, which has granted the permission, within a period of 11 months from the date of issue of the blank guarantee, Executive Engineer, TWAD Board, RWS Division, Vellore shall either furnish a fresh guarantee for extend the guarantee for a further period of one year. In case of Executive Engineer, TWAD Board, RWS Division, Vellore to discharge the obligation of making good the excavated trench, the NHAI shall have a right to make good the damages caused by excavation, at the cost of Executive Engineer, TWAD Board, RWS Division, Vellore and recover the amount by invoking the bank guarantee furnished by Executive Engineer, TWAD Board, RWS Division, Vellore.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



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THE FBI

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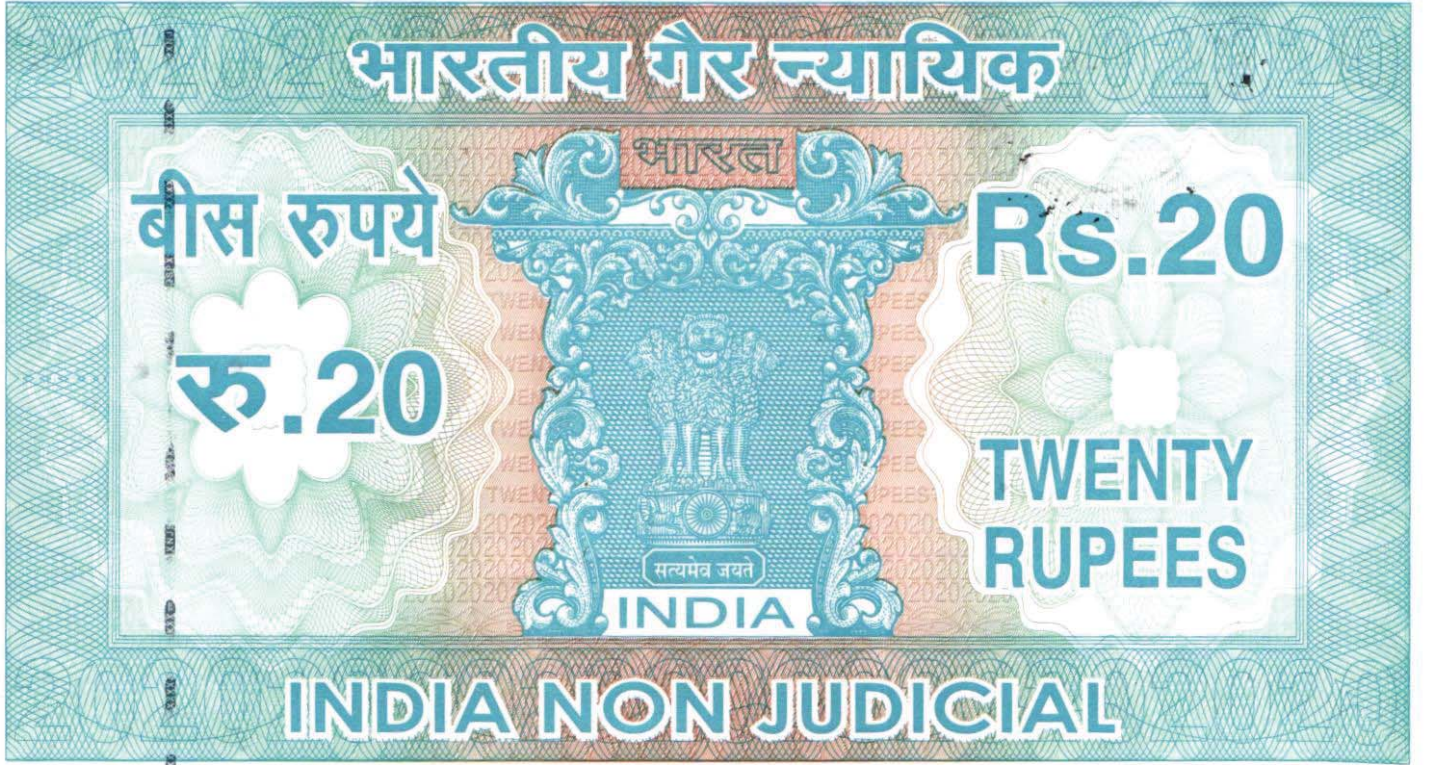


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



OCT 8 1964

Executive Director
U.S. Department of Justice



தமிழ்நாடு தமிலநாடு TAMIL NADU

28 OCT 2021

EXECUTIVE ENGINEER
TWAD BOARD

82AB 416569

M. யுகேஷ், பி.ஏ..

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 24/AMB/2008
ஆயுதம்-635 802 திரு.மா.

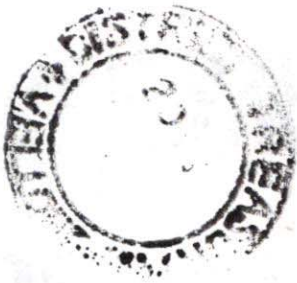
(vii) The licensee shall inform/give a notice to the NHAI, Government of India or its authorized agency at least 15 days in advance with route details prior to digging trenches for fresh or maintenance/repair work. A separate work plan and a separate performance Bank Guarantee @ Rs.100/- per meter length for maintenance / repair work shall have to be furnished by Executive Engineer, TWAD Board, RWS Division, Vellore.

(viii) Each day, the extent of digging the trenches should be strictly regulated so that pipes are laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the NHAI.

(ix) The licensee shall indemnify agency in co-ordination with NHAI, against all damages and claims, if any, due to the digging of trenches for laying pipe lines.

(x) The NHAI has a right to terminate the permission or to extend the period of agreement. In case the Executive Engineer, TWAD Board, RWS Division, Vellore wants to shifting, repairs or alteration to the pipe lines, he will have to furnish a separate bank guarantee.


Executive Engineer / TWAD,
R.W.S.Division, Vellore-7



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1921 OCT 8

Executive Engineer (IWD)
R. W. S. Division, V-100-3

(xv) The pipe line shall not be brought in to use by Executive Engineer, TWAD Board, RWS Division, Vellore unless a completion certificate to the effect that the laying pipe line has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfactions of concerned agency in co-ordination with the owner has been obtained.

(xvi) Notwithstanding anything NHAI contained herein this agreement may be cancelled at any time by the for breach of any condition of the same and the Executive Engineer, TWAD Board, RWS Division, Vellore shall be neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.

(xvii) The licensee shall have to provide barricading, danger lighting and other necessary caution boards while executing the work and during maintenance. If NHAI is required to do some emergent work Executive Engineer, TWAD Board, RWS Division, Vellore will provide an observer within 24 hours. NHAI will not responsible for any damage of any kind by what so ever means natural or otherwise.

(xviii) The enforceability of the Right - of Way permission granted here in shall be restricted to the extent of provisions / scope of service contained/defined in the license agreement of the License with TWAD Board and for the purpose for which it is granted. Either by content or by intent, the purpose extending this Right-of Way facility is not to enhance the scope of Executive Engineer, TWAD Board, RWS Division, Vellore.

4. Shifting of pipeline and when required by NHAI: Executive Engineer, TWAD Board, RWS Division, Vellore shall shift the pipe lines within 90 days (or as specified by the respective agency/owner) from the date of issue of the notice by the NHAI, Government of India to shift/relocate the pipe lines, in case it is so required for the purpose of improvement / widening of the road/route/highway or construction of flyover/bridges and restore the road/land to its original condition at his own cost and risk.

5. Shifting due to 6 lining / widening of NH: After the termination/expiry of the agreement, Executive Engineer, TWAD Board, RWS Division, Vellore shall shift the pipe line within 90days and the site shall be brought back to the original condition failing which the Executive Engineer, TWAD Board, RWS Division, Vellore will lose the right to remove the pipes. However, before taking up the work of removal of pipes the Executive Engineer, TWAD Board, RWS Division, Vellore shall furnish a bank guarantee to the owner for a period of one year for an amount assessed by the owner for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the right of way.



**Executive Engineer / TWAD,
R.W.S.Division, Vellore-7**


6. Traffic movement during laying of pipe line to be managed by the applicant: If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Executive Engineer, TWAD Board, RWS Division, Vellore.

7. If any claim is raised by the concessionaire then the same has to be paid by the applicant: Executive Engineer, TWAD Board, RWS Division, Vellore Shall be solely responsible/liable for full compensation/indemnification of concerned agency/aggrieved owner for any direct, indirect or consequently damage caused to them/claims or replacement sought for, at the cost and risk of Executive Engineer, TWAD Board, RWS Division, Vellore. The concerned agency in co-ordination with NHAI shall also have a right to make good such damages/recover the claims by way of invoking of Bank Guarantee furnished by Executive Engineer, TWAD Board, RWS Division, Vellore. If Executive Engineer, TWAD Board, RWS Division, Vellore fails to comply with the condition 5 and 6 above to the satisfaction of the NHAI, the same shall be got executed by the NHAI at the risk and cost of the Executive Engineer, TWAD Board, RWS Division, Vellore.

8. We, Executive Engineer, TWAD Board, RWS Division, Vellore Tamil Nadu State, hereby do undertake to furnish a Performance Bank Guarantee @ 100/- per meter for a period of one year initially (extendable if required till satisfactory completion of work) as a security against improper restoration of ground in terms of filling/unsatisfactory compaction/damages caused to other underground installation utility services etc. In case, Executive Engineer, TWAD Board, RWS Division, Vellore. Failing to discharge the obligation of making good the damages caused due to excavated trench the NHAI shall have a right to make good the damages caused due to excavation at the cost of the Executive Engineer, TWAD Board, RWS Division, Vellore. And recover the amount by invoking the Bank Guarantee. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, Executive Engineer, TWAD Board, RWS Division, Vellore. Shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.

9. Not to damage to other utility, if damaged, then to pay the losses either to NHAI or to the concerned agency.

10. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission within a period of 11 months from the date of issue of the Bank Guarantees, Executive Engineer, TWAD Board, RWS Division, Vellore shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.


**Executive Engineer / TWAD,
R.W.S.Division, Vellore-7**

11. We will relocate pipe line at our own cost, notwithstanding the permission granted within such time as will be stipulated by NHAI "for future six-lining or any other development."

12. We Executive Engineer, TWAD Board, RWS Division, Vellore, hereby undertake that "The existing avenue plantation is not affect due to the present proposed pipe line along the road from Km 69/928 to 70/132 (LHS) for a total length of 204m and across the road @ Km 70/132 on Krishnagiri – Walajah road of NH-48 in the state of Tamil Nadu.

13. We Executive Engineer, TWAD Board, RWS Division, Vellore, hereby undertake to adopt open trench method where the available width of ROW 15.00m or more and trench less technology (HDD) where the available width of ROW is less than 15.00m

14. We Executive Engineer, TWAD Board, RWS Division, Vellore hereby undertake that the pay the fee/rent as mentioned in the Ministry guidelines No. RW/NH-33044/29/2015/S&R(R) dated: 22.11.2016 as and when asked by NHAI.

15. Executive Engineer, TWAD Board, RWS Division, Vellore, hereby undertake that the HDD method will be adopted for crossings of all cross roads at grade seperators, at grade junctions and wherever required and in the build up areas as per the instructions of NHAI officials.

16. Lr. No. RW/NH-33044/29/2015/S&R(R) dated: 22.11.2016 as and when asked by NHAI. Reference Circular issued by Ministry of Road Transport & Highways, GOI, Circular No. RW/NH-33044/29/2015/S&R(R) dated: 22.11.2016. Where in the last paragraph that "The Highway Administration Rules 2004 will be modified accordingly. This circular will come in to effect from the date of notification of the modified Highway Administration Rule" So we hereby give our constent to abide by the content of this circular from the date of its notification by MORTH, GOI and agree to pay the ground rent any other charges applicable for the section as applied by us.

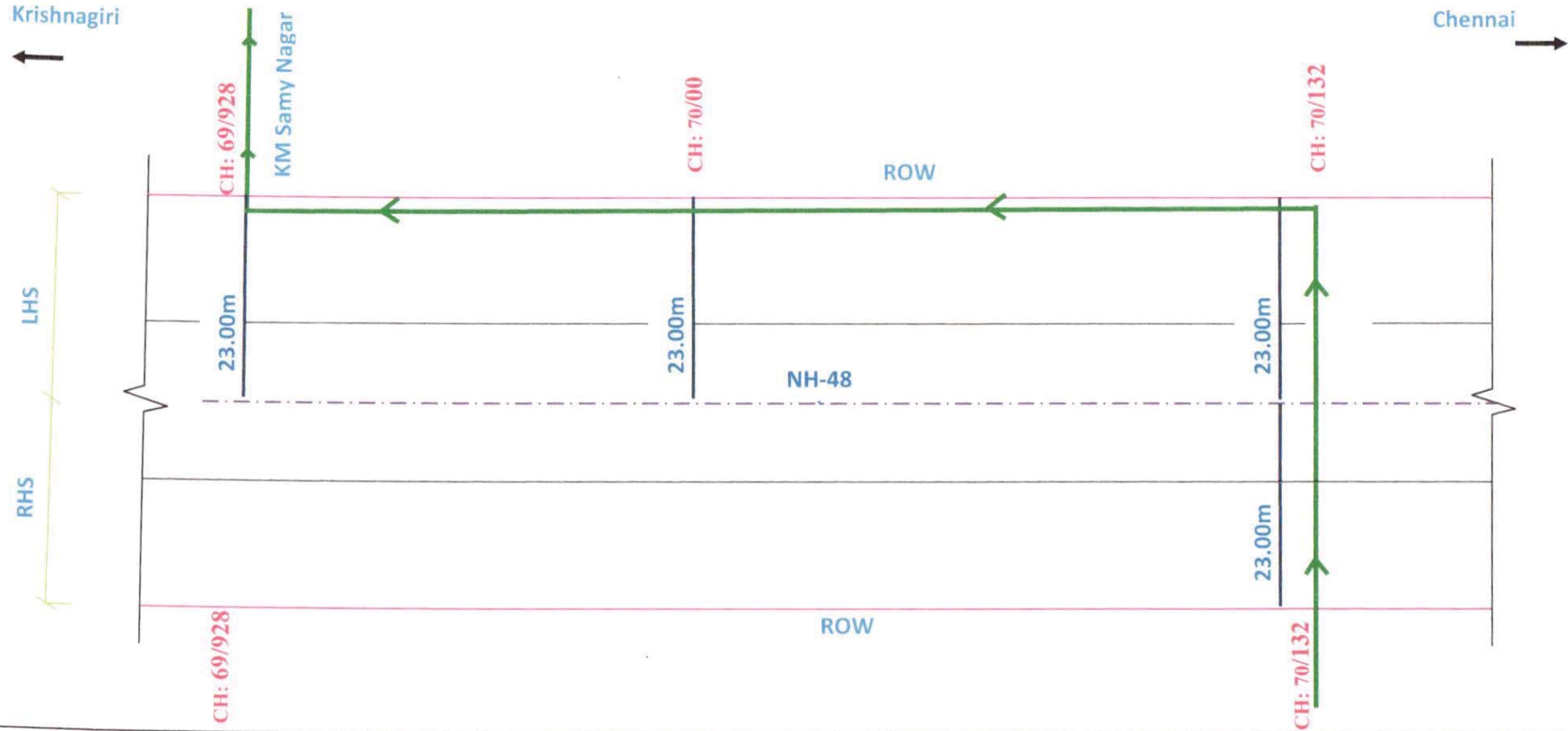
For **Executive Engineer, TWAD Board, RWS Division, Vellore.**


**Executive Engineer / TWAD,
R.W.S.Division, Vellore-7**

Under Ground Sewerage Scheme to Ambur Municipality in Thirupattur District

Proposed Pipeline alignment in NHAI along (Chainage: 69/928-70/132 (LHS) = 204 m

across (Chainage: 70/132) = 1 No



LEGEND:

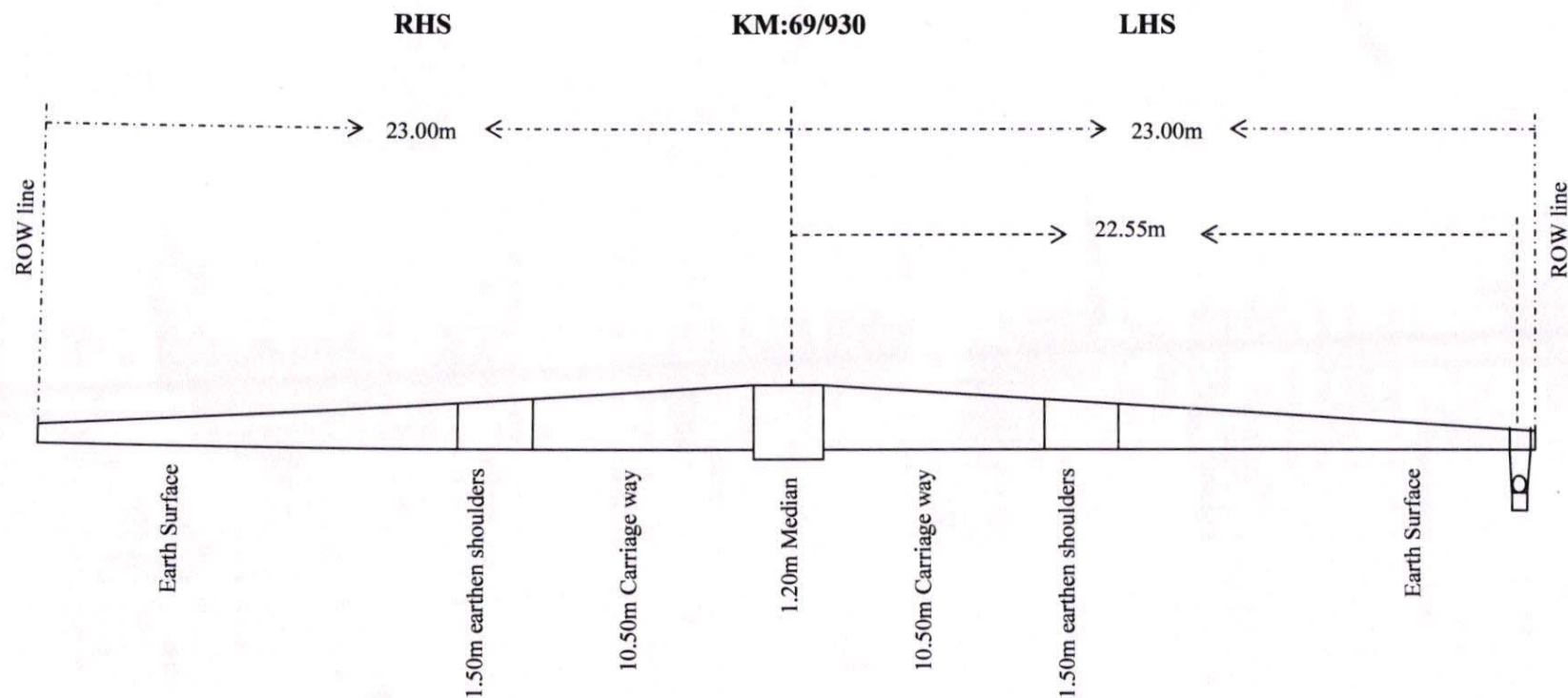
- Proposed pipeline (Along the Road)
- BT Road
- Center line of Carriageway
- Center line of Road
- Boundary (ROW)
- Culvert / Bus shelter

[Signature]
 Assistant Engineer, TWAD Bd,
 Project Sub Division-II, Ambur.

[Signature]
 Asst. Exe. Engineer, TWAD Bd,
 Project Sub Division-II, Ambur.

[Signature]
 Executive Engineer, TWAD Bd,
 RWS Division, Vellore.

Under Ground Sewerage Scheme to Ambur Municipality in Thirupattur District
Proposed Pipeline alignment in NHAI along (Chainage: 69/928-70/132 (LHS) - 204 m
Across (Chainage: 70/132) - 1 No



[Signature]
 Assistant Engineer, TWAD Bd,
 Project Sub Division-II, Ambur.

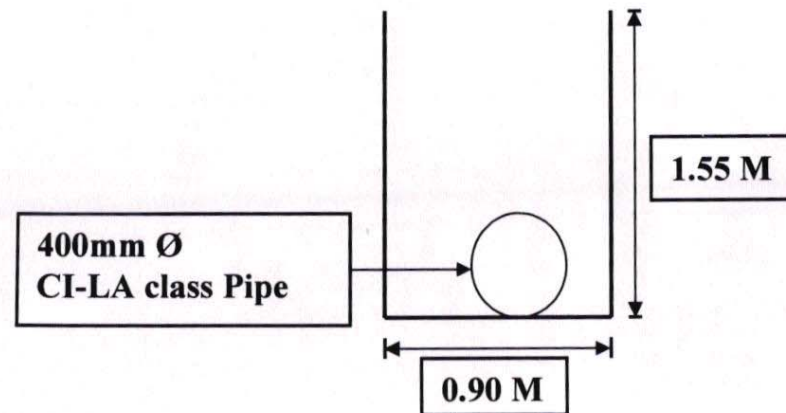
[Signature]
 Asst. Exe. Engineer, TWAD Bd,
 Project Sub Division-II, Ambur.


[Signature]
 Executive Engineer, TWAD Bd,
 RWS Division, Vellore.

Under Ground Sewerage Scheme to Ambur Municipality in Thirupattur District


Proposed Pipeline alignment in NHAI (NH48) along (Chainage: 69/928-70/132 (LHS) - 204 m

Across (Chainage: 70/132) - 1 No




Assistant Engineer, TWAD Bd,
Project Sub Division-II, Ambur.

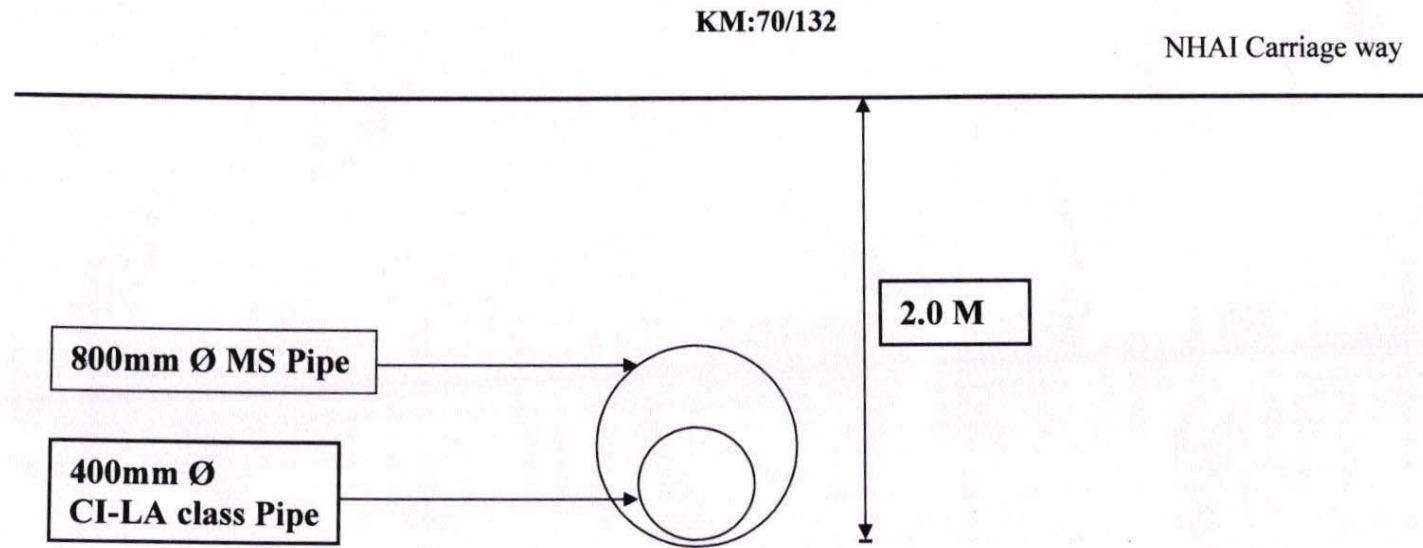

Asst. Exe. Engineer, TWAD Bd,
Project Sub Division-II, Ambur.


Executive Engineer, TWAD Bd,
RWS Division, Vellore.

Under Ground Sewerage Scheme to Ambur Municipality in Thirupattur District

Proposed Pipeline alignment in NHAI (NH48) along (Chainage: 69/928-70/132 (LHS) - 204 m

across (Chainage: 70/132) - 1 No



Trenchless cross section @ KM 70/132


Assistant Engineer, TWAD Bd,
Project Sub Division-II, Ambur.


Asst. Exe. Engineer, TWAD Bd,
Project Sub Division-II, Ambur.

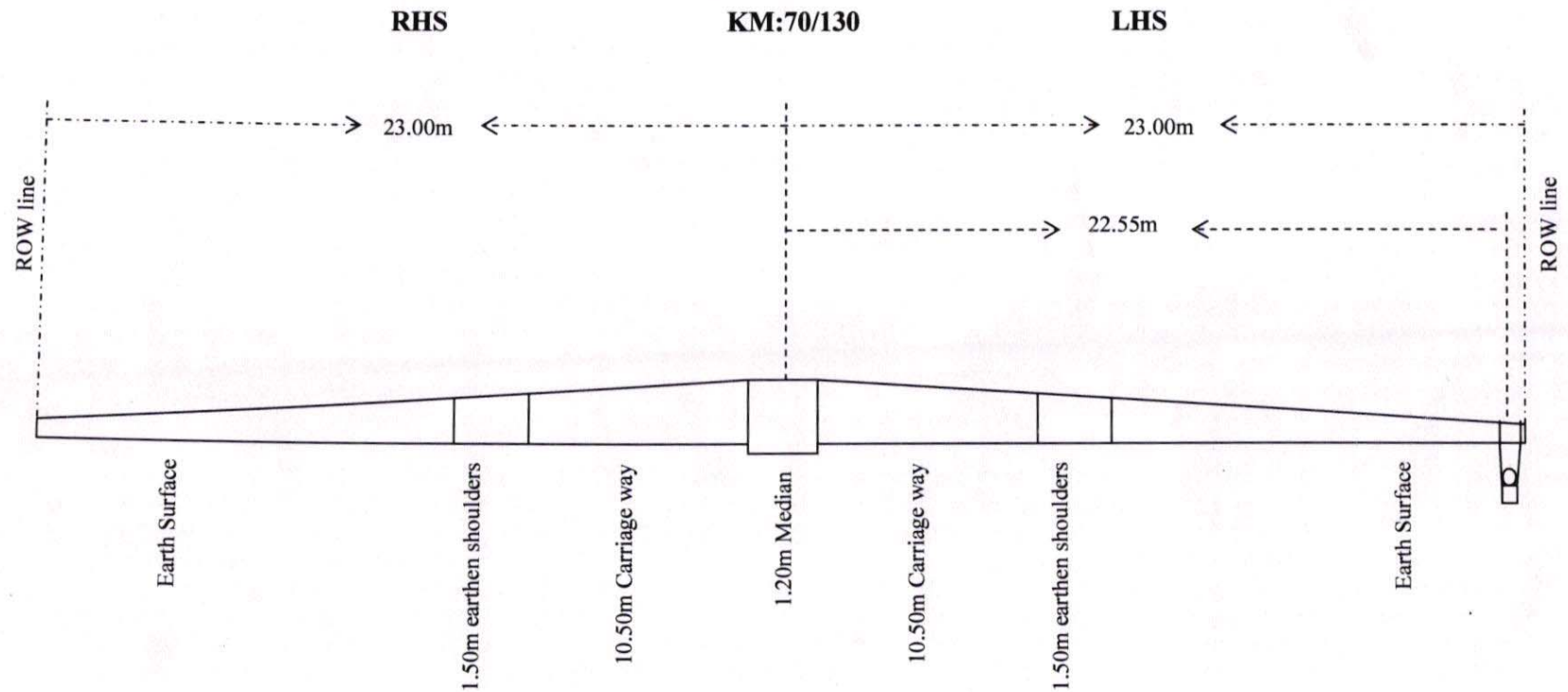

Executive Engineer, TWAD Bd,
RWS Division, Vellore.

Proposed Pipeline alignment in NHAI along (Chainage: 69/928-70/132 (LHS) - 204 m

The diagram illustrates a symmetrical road cross-section. At the center is a 1.20m wide median. On either side of the median is a 10.50m wide carriage way. Beyond the carriage ways are 1.50m wide earthen shoulders. The total width of the road, including the shoulders, is 23.00m on each side of the median. The entire road section is flanked by 'Earth Surface' on the outer edges. A 'ROW line' (Right of Way line) is indicated by dashed lines extending from the outer edges of the shoulders. The total width of the Right of Way is 22.55m on each side of the median. The overall width of the road section shown is 70.00m.

Executive Engineer, TWAD Bd,
RWS Division, Vellore.

Under Ground Sewerage Scheme to Ambur Municipality in Thirupattur District
Proposed Pipeline alignment in NHAI along (Chainage: 69/928-70/132 (LHS) - 204 m
Across (Chainage: 70/132) - 1 No



[Signature]
 Assistant Engineer, TWAD Bd,
 Project Sub Division-II, Ambur.

[Signature]
 Asst. Exe. Engineer, TWAD Bd,
 Project Sub Division-II, Ambur.

[Signature]
 Executive Engineer, TWAD Bd,
 RWS Division, Vellore.