

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India) क्षेत्रीय कार्यालय, मदुरै / Regional Office, Madurai

दूसरा व तीसरी तल, विजय कृष्ण प्लाजा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माहुतावनी, मदुरै- 625 107 2nd & 3rd Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625 107 दर्भाष/Tele: +91-452-258 8999 वेब/Website: www.nhai.gov.in ई-मेल/E-mail: romadurai@nhai.org



NHAI/15018/4.2/02/2024/RO Madurai/E-247431/ 766

11th June, 2024

INVITATION OF PUBLIC COMMENTS

विषय:भाराराप्रा - क्षे.का. मदुरै- पकाई, डिंडिगल - ROW Permission Operation & Maintenance of Two laning with Paved Shoulders of Dindigul -Theni -Kumili section from Km 2/750 to Km 136/543 of NH-183 (Old NH-45E & 220) in the State of Tamil Nadu - Proposed Laying of Water Supply Pipeline along the NH from Km 97/541 to Km 101/350 (LHS) by Open Trench Method and across NH @ Km 97/541 by HDD Method & Twin Air Valve Chambers at Km 225/350, Km 225/710, Km 226/880, Km 228/410 and Km 229/370 - Invitation of Public Comments - Reg.

प्रसंग: PD, Dindigul Lr. No. NHAI/PIU/DGL/11014/10/DTK/NOC/2024/844 dated 23.04.2024. (received on 26.04.2024)

The instant proposal is regarding permission for laying of Water Supply Pipeline along the NH from Km 97/541 to Km 101/350 (LHS) by Open Trench Method and across NH @ Km 97/541 by HDD Method & Twin Air Valve Chambers at Km 225/350, Km 225/710, Km 226/880, Km 228/410 and Km 229/370 in Dindigul -Theni -Kumili section of NH-183 (Old NH-45E & 220) in the State of Tamil Nadu by Chief Engineer, Madurai Corporation which has been submitted to this office by the PD, PIU, Dindigul Lr. No. NHAI/PIU/DGL/11014/10/DTK/NOC/2024/844 dated 23.04.2024 in accordance with Ministry's guidelines dated 22.11.2016.

2) The alignment proposed by Chief Engineer, Madurai Corporation for laying of Water Supply Pipeline along the NH from Km 97/541 to Km 101/350 (LHS) by Open Trench Method and across NH @ Km 97/541 by HDD Method & Twin Air Valve Chambers at Km 225/350, Km 225/710, Km 226/880, Km 228/410 and Km 229/370 in Dindigul -Theni -Kumili section of NH-183 (Old NH-45E & 220) is as detailed under:

Stretch in Km	Length (m)	1	Available ROW (in m)		ce of from C/L m)	Remarks
		LHS	RHS	LHS	RHS	
Along NH- 183: Km 97/54	3809	15	15	14	-	Laying of pipe line along the extreme edge of ROW



NHAI/15018/4.2/02/2024/RO Madurai/E-247431/ 766

11th June, 2024

to Km 101/350 (LHS)						at a distance of 1.0 m from ROW edge.
Across NH-183: Km 97/541	30	15	15	-	-	Laying of pipe line across by HDD Method at a depth of 2.0m from top of the subgrade.

- 3) Chief Engineer, Madurai Corporation has furnished an Undertaking to the effect that the applicant will shift the water pipe lines within 90 days, if required by NHAI, Govt. of India at any time for expansion of the NH at their own risk and cost. Further, mentioned that Chief Engineer, Madurai Corporation will also restore the surfaces to its original condition soon after removal of the water pipe lines.
- 4) Further, PD has submitted that the proposal conforms with all the standard conditions issued vide MoRTH guidelines dated 22.11.2016 & 17.4.2023 and the installation of pipeline within ROW will not adversely affect the design, stability, traffic, future widening and safety of the project highway.
- 5) Accordingly, as per Policy Guidelines issued by Ministry vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application is being uploaded on public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

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

The Regional Officer,
National Highways Authority of India,
No. 3rd Floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road, Mattuthavani,
Madurai - 625 007.

(महेन्द्र मीना। Mahendra Meena)

प्रबंधक (तक)। Manager (Tech)

क्षे.का. मदुरै |RO-Madurai

संलग्नः As above पतिलिपिः

1. The NIC, New Delhi - for uploading in the Ministry's website.

2. The PD, Dindigul- for information.

File No. NHAI/PIU/DGL/11014/10/DTK/NOC/2024/844-MDUCORP (Computer No. 247431)

List of Correspondences							
Receipt No. / Issue No.	Subject	Туре	Marked As	Attached On	Issued On	Pages	Remarks
H	247431 - NOC	Receipt		25/04/2024 01:15 PM		1-9	247431

File No. NHAI/PIU/DGL/11014/10/DTK/NOC/2024/844-MDUCORP (Computer No. 247431) 950678/<mark>2024/PIU - DINDIGUL</mark>भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
परियोजना कार्यान्यम इसाई हिंदियाल / Project Implementation Unit - Dindigul

परियोजना कार्यान्वयन इकाई - डिंडिंगल / Project Implementation Unit - Dindigul प्लॉट नं.1, ऐश्वर्यम हाइट्स, इंदिरा नगर, सेन्नमनाईकेनपट्टी (पो), धाडिकोम्ब् रोड, डिंडिंगल - 624 004 Plot No.1, Aishwaryam Heights, Indira Nagar, Sennamanaickenpatti (P.O), Thadikombu Road, Dindigul - 624 004 दूरआष / Tele: +91-451 2904199 वेब / Web: www.nhai.org ई-मेल / E-mail: piudindigul@nhai.org, dindigulpiu@gmail.com



NHAI/PIU/DGL/11014/10/DTK/NOC/2024/ १५५ सेवा में/To, 23.04.2024

क्षेत्रीय अधिकारी/ The Regional Officer,

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण/ National Highways Authority of India,

क्षेत्रीय कार्यालय, मद्रै/ Regional Office, Madurai

दूसरी और तीसरी मंजिल, विजय कृष्णा प्लाजा नंबर 1/2nd & 3rd Floor, Vijay Krishna Plaza, लेक एरिया, मेलूर मेन रोड/ Lake Area, Melur Main Road,

मट्ट्थवानी, मद्रै - 625 107/ Mattuthavani, Madurai - 625 107.

विषय/Sub:

NHAI - PIU, Dindigul - ROW Permission - Operation & Maintenance of Two laning with Paved Shoulders of Dindigul - Theni - Kumili section from Km 2+750 to Km 136+543 of NH-183 (Old NH-45E & 220) in the State of Tamil Nadu - Proposed Laying of Water Supply Pipeline along the NH from Km 97+541 to Km 101+350 (LHS) by Open Trench Method and across NH 97+541 by HDD Method & Twin Air Valve Chambers at Km 225+350, Km 225+710, Km 226+880, Km 228+410 and Km 229+370 - Approval Requested - reg.

संदर्भ/Ref:

- (i) Indemnity Bond dated 23.04.2024
- (ii) IE's Lr. No. LNMIPPL/NHAI/Dindigul-Kumili/2024-25/53 dated 01.04.2024 (received on 03.04.2024).
- (iii) This office's Lr. No. NHAI/PIU/DGL/11014/10/DTK/NOC/2022/672 dated 26.03.2024.
- (iv) Proposal received from Chief Engineer, Madurai Corporation Lr. No. Ma.Po.2/AMRUT (WS) Package-1/2018 dated 22.03.2024

महोदय/ Sir,

Reference is invited to the "Proposed Laying of Water Supply Pipeline along the NH from Km 97+541 to Km 101+350 (LHS) by Open Trench Method and across NH 97+541 by HDD Method & Twin Air Valve Chambers at Km 225+350, Km 225+710, Km 226+880, Km 228+410 and Km 229+370", received from Chief Engineer, Madurai City Municipal Corporation, Madurai vide letter cited under ref. (iii). Further, the applicant has also applied in the "MoRTH NOC Portal" for approval (Application No: 20230830/1/7/20194/3475).

- 2. In this regard, this office vide letter dated 26.03.2024 cited under ref (ii) above, forwarded the said proposal to the Independent Engineer's of the subject stretch, M/s L N Malviya Infra Projects Pvt. Ltd., for examining the proposal of the applicant by duly visiting the site and furnishing the reply/ recommendations thereon.
- 3. Accordingly, the Independent Engineer vide their letter dated 01.04.2024 (received on 03.04.2024) cited under ref (i) has submitted that in the license fee calculation sheet furnished by the applicant, the prevailing circle rate has been adopted for village Kottur & Seelayampatti, however, the proposed location comes under village Chinnamanur, Karunkattankulam and Uthamapalayam. The IE has stated that rest of the proposal apart from the license fee calculation is satisfactory in accordance with MoRTH Guidelines and recommended for issuance of NOC to the Applicant.

- 3. In this context, the proposal submitted by the Applicant vide ref. (iii) cited has been scrutinized in light of Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 and the following points are brought out;
 - i. A plan showing the above-mentioned NH stretch with the proposed Pipeline location, cross section of Pipeline Trench has been appended in the proposal.
 - ii. 01 No. crossing is proposed in this proposal.
 - iii. The water supply pipeline is proposed to be laid minimum 1.2m below from Ground level/Sub-grade which is satisfying the norms.
 - iv. The applicant has submitted an agreement in the prescribed format to be executed in case the approval is accorded.
 - v. The applicant has submitted the necessary undertakings in the prescribed format as mentioned in the Ministry Circular No. RW/NH-33044/29/2015/ S&R (R) dated 22.11.2016.
 - vi. Further, Applicant has proposed to provide air valve on already laid pipeline at Km 225+350, 225+710, 226+880 & 228+410 and Break Pressure Vertical Shaft Arrangement @ Km 229+370. The license fee at these locations has not been calculated as the applicant has already paid the same earlier while obtaining approval for laying of water pipeline.
 - vii. The CE, Madurai Corporation has submitted the Indemnity Bond on 23.04.2024 and the same has been enclosed herewith.
- 4. The license fee has been calculated for pipe line of Various Diameter proposed in line with the MoRTH Policy Guidelines dt. 22.11.2016 & 17.04.2023 as detailed below:

	LICENSE FEES (Rs/Sqm/month)										
[Utilized NH Land area X prevailing Circle Rate of Land per unit area X 1.5%]											
S.	CHAINAC	GE IN KM		LENGTH		DIA OF THE PIPE		UTILIZED NH LAND	PREVAILING CIRCLE RATE OF LAND PER UNIT AREA (Sqm) (Rs)	PUBLIC UTILITY (RS) NH Land area X prevailing Circle Rate of Land per unit area X 1.5%	ABUTTING VILLAGE
NO	FROM	то	SIDE	(M)	PIPE		m	AREA (Sqm)			
I	KM	KM		(L)		D		[D x L]			
	Along the Road										
1	97+541 100+313 LHS 2772 MS 1118 1.118		3099.096	126.05	5859.62	Karunkattankulam					
2	100+313	0+313 101+350 LHS		1037	MS	1118	1.118	1159.366	247.10	4297.19	Uthamapalayam
	Total Value (for along) 3809			3809	3099.096						
	CROSSINGS AT										
1	97+541		30	MS	1827	1.827	54.81	126.05	103.63	Karunkattankulam	
	Total Value	(for acros	s)	30				54.81			
Total (I + II)								10260.44			

License Fee Calculation:

License Fee for 1st Year	₹ 10,260.00
License Fee for 2 nd Year	₹ 10,875.60
License Fee for 3 rd Year	₹ 11,528.14
License Fee for 4 th Year	₹ 12,219.82
License Fee for 5 th Year	₹ 12,953.01
Total for 5 years with 6% Annual Increment	₹ 57,837.00



-3

5. The amount of Performance Bank Guarantee has been calculated in line with the MoRTH Policy Guidelines dated 22.11.2016 as detailed under:

Total Length along & across NH	3839 m
Rate of performance BG	Rs. 500/- Per m (>1000 mm)
Amount (3839 x 500)	19,19,500 /-
Cost of Restoration Charges	Rs.1 Lakh per crossing
1 No. of Crossing	1,00,000/-
23.5% centages	4,74,583/-
Total Amount	24,94,083/-

- 6. Further, it is to certify that any other location of Underground pipeline will be extremely difficult and unreasonably costly and the proposal is confirming all the standard conditions issued vide Ministry Circular dated 22.11.2016 & 17.04.2023, the installation of pipeline within ROW will not adversely affect the design, stability, traffic, future widening and safety of the Project Highway. It is further submitted that the sufficient ROW is available to accommodate proposed pipeline.
- 7. In view of above, it is requested that the "Proposed Laying of Water Supply Pipeline along the NH from Km 97+541 to Km 101+350 (LHS) by Open Trench Method and across NH 97+541 by HDD Method & Twin Air Valve Chambers at Km 225+350, Km 225+710, Km 226+880, Km 228+410 and Km 229+370", of Dindigul-Theni-Kumili Section of NH-183 may be considered for approval.

भवदीय/ Yours Sincerely,

संलग्न/ Encl: As stated.

गोनिन्द्याम भ 23/04/24 (गोविन्दसामी क/ Govindasamy K)

महाप्रबंधक (तकनीकी) एवं परियोजना निदेशक/ General Manager (Tech.) & Project Director

प्रतिलिपि/ Copy to:

- 1. The Chief Engineer, Madurai Corporation, Arinagar Anna Maligai, Tallakulam, Madurai for information.
- 2. The Resident Engineer, M/s L N Malviya Infra Projects Pvt. Ltd. for information.

Project Office: No.1438/11 W3, Amman Nagar, Nippon Furniture Street, Palanichettipatti, Theni-625531, Tamilnadu

E-mail: dindigulkumililnm@gmail.com. Website: www.lninfra.com

Our Ref: LNMIPPL/NHAI/Dindigul-Kumili/2024-25/53

To.

The DGM (Tech)-cum-The Project Director,

National Highway Authority of India,

Project Implementation Unit,

Plot No: 1, Aishwarya Heights, Indira Nagar,

Chennammanaickanpatti (PO), Thadikombu Road,

Dindigul- 624 004.

Email: dindigulpiu@gmail.com

No: 1036

Date: 03/04/24 *

Plu-DINDIGUL-4.

01.04.2024

Date:

M(T)

ACC

S1 S2

Sub:

VS4

S3

"Consultancy services for Supervision Consultants (SC) of Operation & Maintenance of Two laning with paved shoulder of Dindigul-Theni- Kumili section from Km: 2.750 to Km: 136.543 of NH-183 (Old NH-45E &220) in the state of Tamil Nadu": Proposed Laying of Water supply pipeline along NH form Km. 97+541 to Km.101.350 (LHS) by open Trench Method and across NH 97+541 by HDD method & Twin Air Valve Chambers at Km. 225+350, Km. 225+710, Km. 226+880, Km. 228+410 and Km. 229+370 – NOC permission - Requested - Reg.

NHAI, PIU letter No:

NHAI/PIU/DGL/11014/10/DTK/NOC/2022/672 Dated: 26.03.2024.

Dear Sir,

03/04/3034

With reference to the NHAI, PIU letter No; 672 regarding the proposal received from the City Engineer, Madurai Corporation, Madurai for laying Water supply pipeline along NH form Km. 97+541 to Km.101.350 (LHS) by open Trench Method and across NH 97+541 by HDD method & Twin Air Valve Chambers at Km. 225+350, Km. 225+710, Km. 226+880, Km. 228+410 and Km. 229+370in the Theni-Kumili section of the NH-183 Project highway has been examined and our reply/comments are as under:

The submitted proposal has been reviewed and found that the license fee calculation made with the prevailing circle rate per land Area of the villages Kottur and Seelayampatti but the proposed location for laying pipeline is comes under the villages of Chinnamanur, Karunkattankulam and Uthamapalayam. Hence the license fee should be calculated by taking the nearest village circle rate abutting to the Project highway. Rest of the conditions are satisfactory in accordance to the MoRTH Circular No. RW/NH-III-34044/27/2005-S&R dated 22.11.2016. The Water supply pipeline shall be laid at the extreme edge of the ROW. Accordingly, we are here with recommending that, the permission for the afore said Proposal can be issued by the Authority.

In addition to the above we would like mention that the restoration works of highway property on the earlier permitted location were not been completed by the applicant. There are 24 no's of cross road was damaged during the open trench excavation but the rectification to its original condition is not yet completed. Similarly, bus shelter with seating arrangements

Head Office: T-10, 3rd Floor, City Centre, Press Complex, Plot No.1, M. P. Nagar, Zone-I, Bhopal (M.P.) 462 011, Tel./Fax: 0755-4295421, Mob.: 9826452711, 7773000871, 9617777944. E-mail: lnmalviya@rediffmail.com, website: www.lninfra.com

Tromming

2 no. are not been rectified. Hence the applicant may be instructed to complete the restoration works on the earlier permitted location.

This is for your kind information and necessary actions please.

Thanking you our best and assuring services at all times.

Yours Sincerely,

K Jayachandran,

Highway Maintenance cum Resident Engineer,

For M/s L N Malviya Infra Projects Pvt., Ltd.,

Theni

Copy to: 1. M/s L N Malviya Infra Projects Pvt. Ltd, Bhopal

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
परियोजना कार्यान्वयन इकाई - डिंडिंगल / Project Implementation Unit - Dindigul

प्लॉट नं.1, ऐश्वर्यम हाइट्स, इंदिरा नगर, सेन्नमनाईकेनपट्टी (पो), थाडिकोम्ब् रोड, डिंडिगल - 624 004 Plot No.1, Aishwaryam Heights, Indira Nagar, Sennemanaicks, ppatti (P.O), Thadikombu Road, Dindigu! - 624 004 दूरभाष / Tele: +91-451 2904199 वेब / Web: www.nhai.org ई-मेल / E-mail: piudindigul@nhai.org, dindigulpiu@gmail.com



NHAI/PIU/DGL/11014/10/DTK/NOC/2022/672 To,

26.03.2024

Authorized Signatory, M/s LN Malviya Infra Projects Pvt Ltd., No.1438 /11 W3, Amman Nager, Nippon Furniture Street, Palanichettipatti, Theni - 625 531.

Sub: NHAI - PIU, Dindigul - Two Laning with Paved Shoulders of Dindigul-Theni Section from Km 2/750 to Km 73/400 of NH-45E and Theni-Kumuli Section from Km 215/000 to Km 273/600 of NH 220 in the State of Tamil Nadu - Proposed Laying of Water Supply Pipeline along NH from Km 97+541 to Km 101+350 (LHS) by Open Trench Method for as length of 3809m, Twin Air Valve Champers @ Km 225/350.00, Km 225/710.00, Km 226/880.00 Across NH @ Km 97+541 for a length of 29m through HDD Method (Total length of 3838 m, by open trench & HDD Method) in Theni District - NOC Permission - Requested-Reg.

Ref: (1) City Engineer, Madurai Corporation, Lr. No. NIL dated 04.08.2023 (Received on 01.09.2023).

- (2) This office Lr. No. NHAI/PIU/DGL/11014/10/DTK/NOC/2022/1941 dated 04.09.2023.
- (3) This office Lr. No. NHAI/PIU/DGL/11014/10/DTK/NOC/2023/2067 dated 18.09.2023.
- (4) Chief Engineer, Madurai Corporation Lr. No. Ma.Po.2/AMRUT(WS) Package-1/2018 dated 22.03.2024.

Sir,

The City Engineer, Madurai Corporation, Madurai vide letter cited has requested for getting permission for Proposed Laying of Water Supply Pipeline along NH from Km 97+541 to Km 101+350 (LHS) by Open Trench Method for as length of 3809m, Twin Air Valve Champers @ Km 225/350.00, Km 225/710.00, Km 226/880.00 Across NH @ Km 97+541 for a length of 29m through HDD Method (Total length of 3838 m, by open trench & HDD Method) in Theni District. One set of Proposal submitted by the City Engineer, Madurai City Corporation, Madurai is enclosed.

2) It is requested to inspect the site and examine the proposal as per extant Guidelines and furnish the reply/comments at the earliest.

Encl: As above.

Yours Sincerely,

(Vishnu V Mohan) Manger (Tech.,)

For Project Director

Copy to:

- The City Engineer, Madurai Corporation, Madurai - for kind information.

D:\NOC\Balance D-T-K - NOC\TWAD - Madural City Corp - Km 97+541 to Km 101+350 LHS\PD Lr to TL reg Verification -TL 26-03-2024.docx

File No. NHAI/PIU/DGL/11014/10/DTK/NOC/2024/844-MDUCORP (Computer No. 247431) 950678/2024/PIU DINDIGUIOR (Computer No. 247431)

Aringar Anna Maligai Tallakulam, Madurai – 625 002



Chief Engineer

Madurai Corporation

Letter No. Ma.Po.2/AMRUT (WS) Package-1/2018 Date: 2-2.03.2024

To

3

The Project Director, NHAI - PIU, Dindigul.



Sub: Laying of Water Pipe line in (Theni – Kumily Section) of NH - 183 Road Along the Road from Km.97/541.00 to Km.101/350.00 (LHS), Along the Road Length of 3809m, Twin Air Valve Champers @ Km.225/350.00, Km.225/710.00, Km.226/880.00,Km.228/410.00,Km.229/370.00, Across the road @

Km.97/541.00 Across length of 29m, Total Length of 3838Meters, by Open

trench & HDD method – proposal submitted – approval requested – reg.

NHAI-PIU-DGL
PD
M(T)
LO
ACC
S1 S2
S3 S4

Ref:

1. Chief Engineer, Madurai Corporation Dated: 04.08.2022

2. NHAI/PIU/DGL/11014/10/DTK/NOC/2023/2067 dated 18.09.2023

3. This office Letter No: J2/Ma.Po.2/AMRUT(WS) Package 1/2018 Dated: 21.02.2024.

Sir,

In the reference 1st cited, change in alignment was proposed for laying of Mulfal Periyar Water pipe line for which final NOC was accorded by NHAI,RO, Madurai vide Leter No: NHAI/15018/4.2.1/2019/RO Madurai/E-156089/2645 Dated: 16.11.2022 and communicated vide PD/NHAI/Dindigul Lr.No: NHAI/PIU/DL/11014/08/OHL/ Erection/2022/2613 Dated: 21.11.2022.

In the reference 2nd citied, certain remarks were pointed out by NHAI. In the reference 3rd citied, it was requested for fixing of thin air valve as advised by IISC Bangalore.

Now, the remarks pointed out vide ref 2nd citied has been updated and submitted along with the additional proposal of the air valves and shaft arrangement at ridge point and request NOC for completing the work early.

82/05/2024

N

Madurai Corporation

Encl: 5 Copies

E 13

> SAFETY PRECAUTION PLAN AND DAMAGE PRVENTION PLAN FOR LAYING OF WATER PIPELINE ALONG THE NH 183 ROAD AT KM 97/541 TO KM 101/350 AND ACROSS THE ROAD AT KM 97/541 (As per MoRTH circular number NH-36094/01/2022-S&R(P&B) Dated: 17th April, 2023)

All safety precaution will be taken before and during execution in all states of the DIRE pipe line work.

Road Safety Measure

The required road precaution will be taken while unloading the MS pipe the pipes and stacking.

- Hard barricading/Light barricading with tape with work place awareness/signage will be put in place for both trailer and unloading crane area.
- Speed limit signage will be put in place for the commuters to slowdown the speed.
- Flagmen will be posted at both ends with traffic signal light for alerting and cautioning the commuters.
- Nearest Hospital name and emergency contact numbers will be displayed in a board in all work spots.

NHAI-PIU-DGL movement PD M(T)LO ACC S1 **S3** SU

• While unloading and stacking pipes, crane siren will be made for machinery movement time & pipe lifting time for traffic control.

• Labours will be provided with PPE for easy identification (Orange colour jacket with yellow colour Helmet)

52Pipe line laying

- The Excavator is positioned in such a way that it is at a safety location to work.
- Authorised licenced machinery operator will be employed and will be verified by supervisors at site and safety officer before employing the operator.
- Hard barricading with caution tape will be made with three rows along the trench.
- Supervisor for machinery management will be deployed at work site.
- The Site Engineer deployed at site will verify safety precautions for work location and for labours.
- All labours will be provided with safety Shoe and Helmets and cloth jacket.

Trenchless work by HDD method

Test pit will be made at the marked driving pit and receiving pit and soil samples taken, tested for checking stability of the soil.

- Oxygen cylinder will be made available at site for working inside the encasing pipe.
- Oxygen meter will be used for checking the oxygen level inside the encasing pipe and if required oxygen will be provided.
- Sufficient lighting arrangement will be made inside the encasing pipe for clear visibility and accessibility.
- All labours working inside will be provided with safety Body Harness belt.

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- Both end gaps will be plugged after completing the carier pipe driving.
- Surplus soil will be removed and disposed away from NHAI limits.

Working in Dual Air valve and Break-Pressure shaft area

This work will be executed at the extreme end of the RoW. Hard barricading will be done on three sides with caution signages/Boards. Work will be carried out in such away that the adjacent public properties are not damaged.

Public utilities in the RoW

Care will be taken not to damage any public utility. If any public utility like water line, cables in the RoW is damaged, it will be rectified on top priority basis.

NHAI Property

Care will be taken not to damage any NHAI property like sign boards. If any property of NHAI is damaged by vehicular moment it will be replaced at the earliest at our cost.

Public Properties

Care will be taken not to damage any public property like buildings, strom water drains, culverts etc adjacent to the RoW. If any damages occur, it will be rectified immediately at our cost.

Plan for containment & disposal of drilling fluids

The spill over drilling fluids will be collected separately in a container and will be disposed away from NHAI limits as per prescribed safety manner.

Restoration

After laying of pipe line, the surface will be levelled and made to the original position and any excess earth will be removed and disposed away from NHAI road limits.

Pipe line laying agency (Madurai Corporation) will carry out annual inspection and submit the certificate to NHAI.

It is assured that all required safety materials will be made available at site before start of the work and the work will be carried out in a safety manner to the labours and the commuting public.

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