



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways)

क्षेत्रीय कार्यालय - हैदराबाद

प्रथम तल, नया भवन, भारतीय प्रशासनिक स्टाफ कॉलेज, पार्क काँपस, रोड नंबर-3, बंजारा हिल्स, हैदराबाद-500 034. तेलंगाना

Regional Office - Hyderabad,

First Floor, New Building, Administrative Staff College of India (ASCI), College Park Campus, Road No. 3, Banjara Hills, Hyderabad - 500 034, Telangana.

NHA/RO-HYD/25011/373/2020/Utility Services/ 315

Dt. 03/06/2020

टेली / Tele : 040 - 29562147 /48

ई-मेल / E-mail : rohyderabad@nhai.org
nhairohyd@gmail.com



भारतमाला
कामि के पथ या अवसर
BHARATMALA
ROAD TO PROSPERITY

Notice Inviting Public Comments for laying of MS crossing Pipeline across NH-44 on Hyderabad- Nagpur Section from Ch. 344+092 RHS to Ch. 344+119 LHS i.e., @ Km.344.100 of NH-44

Sub: NHA - RO Hyderabad - PIU Nirmal- Proposal for Permission for laying of MS crossing Pipeline across NH-44 on Hyderabad- Nagpur Section from Ch. 344+092 RHS to Ch. 344+119 LHS i.e., @ Km.344.100 near Bibipur Thanda in respect of Kaleshwaram Project in the State of Telangana -Reg.,

Ref: 1. PD, PIU Nirmal Lr.no. NHA/PIU-NRML/RWS/AP-1/2020/1578, Dated 23.03.2020

The Project Director, PIU, NHA, Nirmal vide letter cited above has submitted a Proposal for permission for laying of MS crossing Pipeline across NH-44 on Hyderabad- Nagpur Section from Ch. 344+092 RHS to Ch. 344+119 LHS i.e., @ Km.344.100 near Bibipur Thanda in respect of Kaleshwaram Project in the State of Telangana.

2. The proposal has been examined as per Ministry's Guidelines vide letter no.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and is generally found in order

3. In view of above, as per above Ministry's guidelines Para 4, public comments are hereby invited on the above proposal seeking claims and objections (on grounds of public inconvenience, safety and general public interest) within 30 days on public portal i.e. website of Ministry of Road Transport and Highways (www.morth.nic.in) in Form-A (copy enclosed) for "Accommodation of Public and Industrial Utility Services along and across National Highways".

Comment Inviting Authority

The Regional Officer,
National Highways Authority of India,
Regional Office: Hyderabad,
First Floor, New Building,
Administrative Staff College of India(ASCI),
College Park Campus, Road No.3,
Banjara Hills, Hyderabad - 500 034,
Telangana State,
Phone: 040-29562147, 040-29562148,
Email: rohyderabad@nhai.org, nhairohyd@gmail.com

Yours faithfully,

Encls: Above Proposal

(Keerthi Bharadwaj) 31/6/2020

Deputy Manager (Tech)

For Regional Officer, Hyderabad

To:

1. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website.
2. Shri S.Manivasagam, Dy. GM (IT), NHA HQs, New Delhi for uploading on NHA website.

Copy to:-

1. The Project Director, NHA, PIU Nirmal: for information

Format for Maintaining Records of Right-of-Way permission granted for laying of Water Supply Pipe Line

(To be maintained separately for every NH)

1. Name of State : Telangana, India
2. Name of PIU of NHAI : NHAI
3. Name of the Division : I&CADD, KPCD, Nizamabad.
4. NH Number : NH-44

Sl. No.	Location (chainage in km)	Left or right side of NH (towards increasing chainage/km direction)	Section and reach	Kind of service	Name of licensee and contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MOST standard norms	Remarks
1	344+092 Km(RHS) to 344+119 Km(LHS)	RHS TO LHS	Hyderabad to Nagpur	Water Supply	Executive Engineer, I & CADD, Kaleshwaram Project Construction Division, Nizamabad.				NIL	License Deed will be signed after obtaining approval from NHAI,

Handwritten signature



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

Project Implementation Unit

H.No. 1-2-21/K16/1B, L.K. Towers, Second Floor,
Shivaji Chowk, NIRMAL District - 504 106,
Telangana.

Phone & Fax: 08734 241365
08734 242370
e-mail: nirmal@nhai.org
piunirmal@gmail.com

NHAI/PIU-NRML/RWS-MB/AP-1/2019/ 1125/A

Dtd: 09.12.2019

To
The Acting Team Leader
M/s. M/s.MSV International Inc.
in Association with (as a Sub Consultant)
M/s.Prasuna Infra Pvt. Ltd
Dichpally

Sub: NHAI – PIU – PIU Nirmal – Kaleshwaram Project – Link VII – Re-engineering of major irrigation projects package 21 of Kaleshwaram Project – Estimate for formation of new reservoir by clubbing and raising of Kondam Cheruvu and Machippa Tank for storage of 3.50 TMC and providing pressurized pipe irrigation system in place of Open Gravity Canal system to create an IP of 2,00,000 Ac in Nizamabad and Jagtial Districts – Report – Reg.

Ref: E.E., Kaleshwaram Project, Construction Divn. Nizamabad, Lr.No.EE/KPC/Divn./NZB/DB/D4/1041, dtd.20.11.2019

Please find enclosed herewith the proposal received from E.E., Kaleshwaram Project, Construction Divn. Nizamabad on the subject matter with a request to furnish report / recommendations on the proposal, to this office for taking necessary action.

Encl: As above

Yours faithfully

A. Tarun Kumar 09/12/19.

A.Tarun Kumar
PROJECT Director
NHAI, PIU, NIRMAL

Copy to: The Project Manager, M/s. EDTPL, Indalwai– for information and taking necessary action.

METHODOLOGY FOR LAYING WATER SUPPLY PIPE LINE ON THE NATIONAL HIGHWAY LAND
BY HORIZONTAL DIRECTIONAL DRILLING METHOD

Procedure:

Two pits are constructed on either side of the service line. From the side through the pipes are pushed is called launching/Drive pit and the other is reception pit. To get a firm line and level thrust bed and thrust wall are constructed in the launching/Drive pit, these can be of R.C.C.

The hydraulic jacking system consists of number of jacks (Depending on diameter of pipe) and Hydraulic power pack (diesel/electrical operated).

Boring Procedure Consists of following steps:

Step-1: The casing pipe is lower on the driver rig. The line and level is checked.

Step-2: The casing pipe is slowly pushed into the soil by extending the rams of all the hydraulic jacks. The jacks in turn take the reaction from the thrust wall. The line and level is checked for the final time. Any mis-alignment is rectified.

Step-3: After the final alignment the rams are extended further pushing the casing pipe further inside the soil. Each stroke of ram extended i.e. the horizontal distance of penetration of casing pipe inside the soil is generally 150mm to 450mm depending on soil condition.

Step-4: Soil is removed mechanically by means of augur or manually with a proper safety to prevent any soil collapse at pipe face. Adequate safety measures are taken during the operation.


Step-5: Step-3 and 4 is repeated until entire section of casing pipe is pushed through.

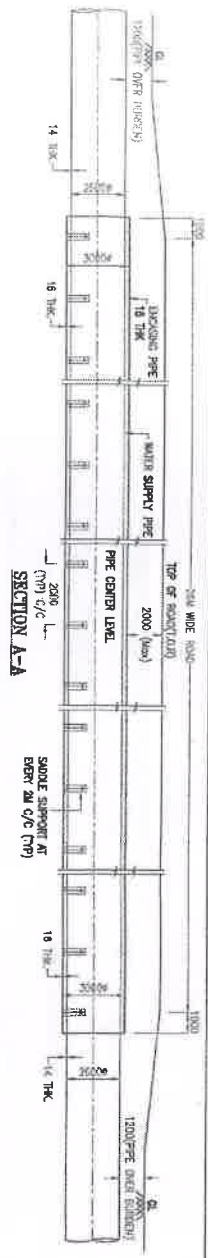
Step-6: New casing pipe section is lowered on the driving rig and butt welded with the previous section. And all the steps from 3 to 4 are repeated.

Step-7: Steps from 3 to 6 is repeated till the entire length of casing pipe is pushed through the soil and the reception pit is constructed on the other side of the service line to expose the pipe end.

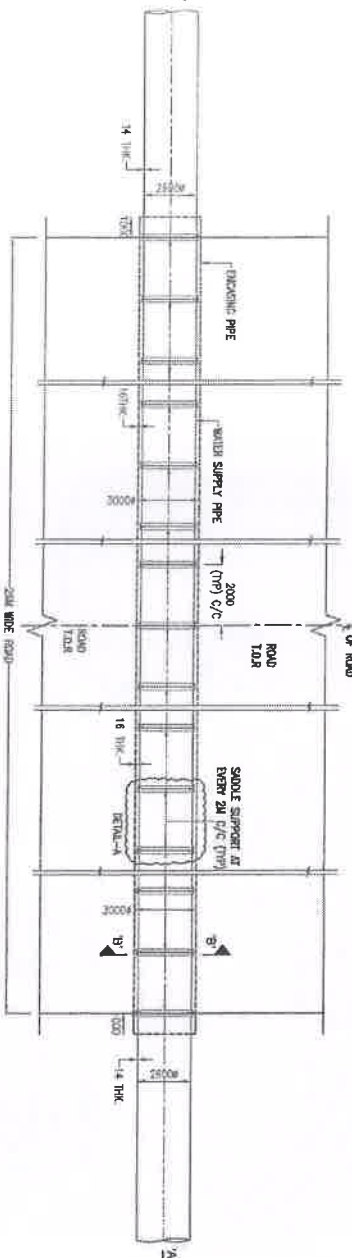
Dia of pipe (in mm)	Type of pipe	Trench width in Mts	Trench depth to bottom of pipe(Mts)	Methodology
2600 mm dia duly encased with 3000 mm dia	M S Pipe	3.3Mts	4.5Mts	Horizontal drilling method(Jack pushing)

Note: Compacting layer of the road crust will not be disturbed in this procedure.

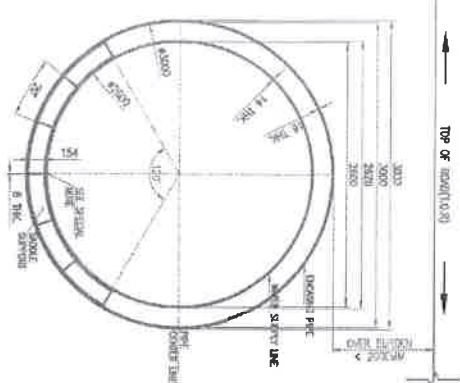

Executive Engineer I&CADD,
Kaleshwaram Project,
Construction Division, Nizamabad



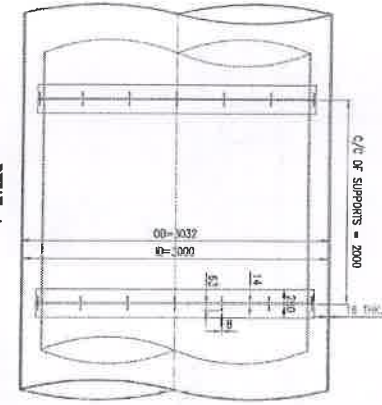
SECTION A-A



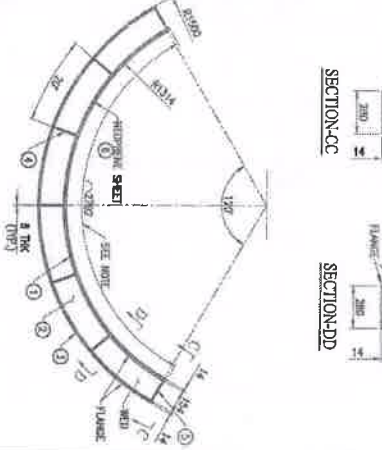
SECTION B-B



PLAN



DETAIL-A



SADDLE SUPPORT DETAIL



NH-44 ROAD CROSSING SECTION

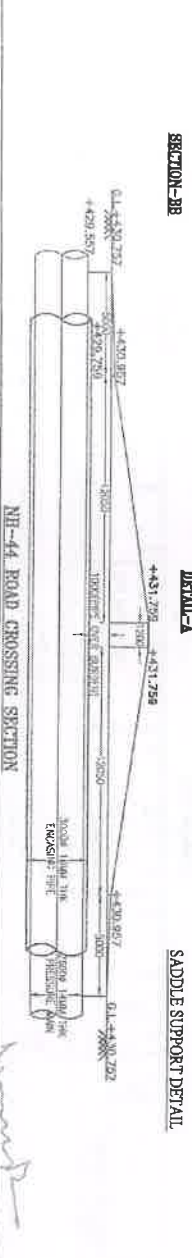
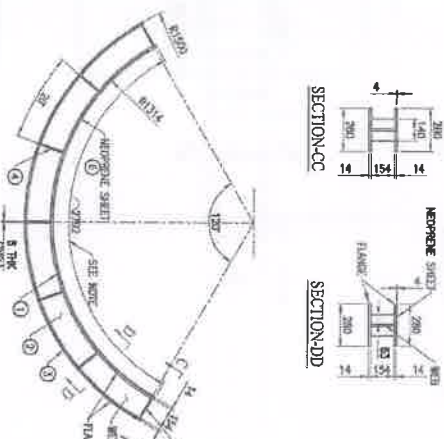
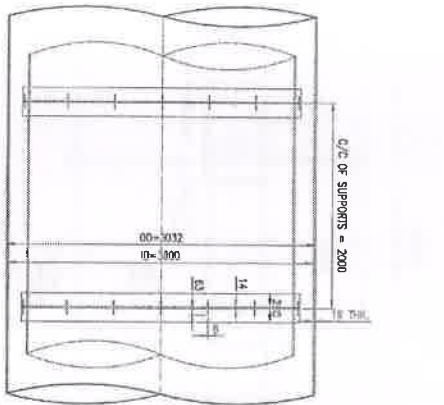
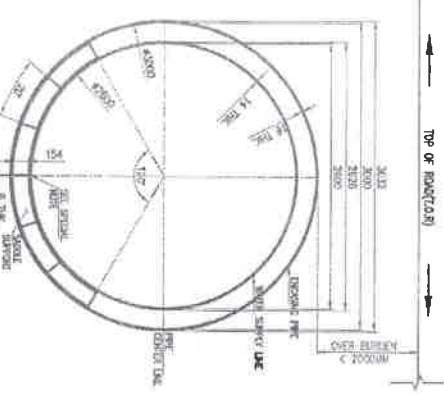
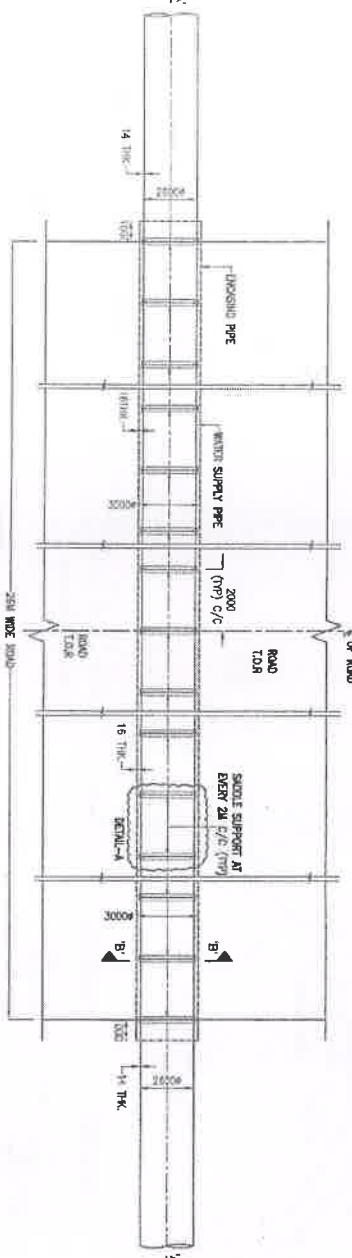
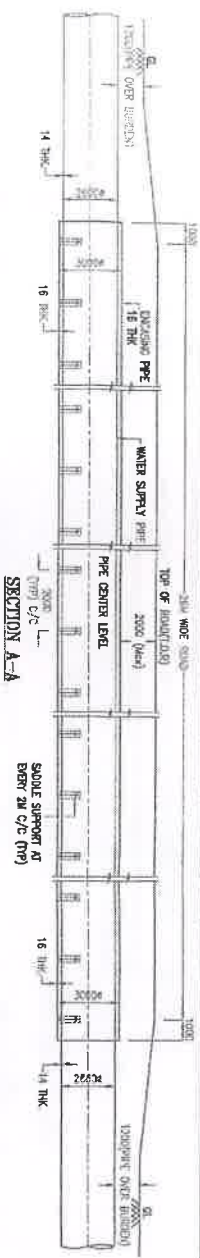
- NOTES:-**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS ARE TO BE CONSIDERED.
 3. DESIGN IS DONE BY CONSIDERING THE SOIL IS OF 60% PROCTOR DENSITY AND WELL COMPACTED. SOIL MODULUS IS TAKEN AS 5000/CN.
 4. WHILE EXECUTION OF EXCAVATION EVERY CARE SHALL BE TAKEN TO KEEP THE PRESSURE MAIN WITHOUT ANY DAMAGE.
 5. SUFFICIENT ANTI-CORROSION COATING SHALL BE DONE TO THE EXCAVATION PIPE INSIDE AND OUTSIDE AS PER IS 8080 PROVISION.
 6. EXCAVATION ON BOTH SIDES OF THE ROAD SHALL BE EXTENDED AS PER SITE CONDITIONS TO TAKE CARE OF OVER BURDEN IF IT IS MORE THAN 1.20M.
 7. ALL STRUCTURAL STEEL SHALL CONFORM TO IS 2002 GRADE - E 250-BE.
 8. ALL WELDS ARE 6mm FILLET CONNECTIONS.
 9. WEARWIRE RUBBER SHEET SHALL BE ATTACHED TO TOP FLANGE USING CSK BOLTS.

SECTION NOTE

PRESSURE MAIN AHEAD LEVEL, GROUND LEVEL & ROAD TOP LEVEL SHALL BE IN ACCORDANCE WITH THE APPROVED LS OF FRESHNESS DATA.

Sl. No.	DESCRIPTION	QTY	UNIT	REMARKS
1	Ru 200 x 4 - 27054.0	1	NO	
2	Pl 140 x 8 - 1544.0	2	IS 2002	
3	Pl 83 x 8 - 1544.0	10	IS 2002	C/S
4	Ru 200 x 14 - 31194.0	1	IS 2002	B/S
5	Pl 154 x 14 - 31194.0	1	IS 2002	C/S
6	Pl 200 x 14 - 27054.0	1	IS 2002	B/S

NO	18.10.19	ISSUED FOR APPROVAL	NO	18	18	18
REVISION	DATE	TYPE OF ISSUE / REVISION HISTORY	REVISION	DATE	TYPE OF ISSUE / REVISION HISTORY	REVISION
PROJECT : KALSHIVARAM PROJECT PACKAGE-21						
CLIENT : GOVERNMENT OF TELANGANA						
CONTRACT : APPROVAL & 500 DEPARTMENT CENTRAL DEPT. OF TRANSPORTATION						
CONSULTANT : M/S. MEHA ENGINEERING & INFRASTRUCTURES LIMITED						
TITLE : PLAN AND SECTIONAL DETAILS OF 2.60M DIA MS PIPE LINE FOR ROAD CROSSING (NH-44) AT CH. 15.621 KM (MAIN LINE)						
SCALE : 1:100						
PROJECTION : FIRST ANGLE						
DRAWN : [Signature]						
CHECKED : [Signature]						
APPROVED : [Signature]						



NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS ARE CONSIDERED.
3. DESIGN IS DONE BY CONSIDERING THE SOIL IS OF BEST PROBABILE DENSITY AND WELL COMPACTED. SOIL MODULUS IS TAKEN AS 3000/CN.
4. WHILE EXECUTION OF EMBANKMENT EVERY CARE SHALL BE TAKEN TO KEEP THE PRESSURE MAIN WITHOUT ANY DAMAGE.
5. SADDLE AND CORROSION COATING SHALL BE DONE TO THE EMBANKMENT PIPE INSIDE AND OUTSIDE AS PER CODE PROVISION.
6. EMBANKMENT ON BOTH SIDES OF THE ROAD SHALL BE EXTENDED AS PER SITE CONDITIONS TO TAKE CARE OF OVER SLOPPING. IT IS MORE THAN 120M.
7. ALL STRUCTURAL STEEL SHALL CONFORM TO IS 2002 GRADE - E 250-BR.
8. ALL WELDS ARE OPEN FILLET CONTINUOUS.
9. NEOPRENE RUBBER SHEET SHALL BE ATTACHED TO TOP FLANGE USING CSX BOLTS.

GENERAL NOTE.

PRESSURE MAIN MOUNT LEVEL, GROUND LEVEL, & ROAD TOP LEVEL SHALL BE IN ACCORDANCE WITH THE APPROVED U.S. OF PRESSURE MAIN.

Sl. No.	Rev.	Description	Issued By	Checked By	Remarks
1	1	As per drawing			
2	2	As per drawing			
3	3	As per drawing			
4	4	As per drawing			
5	5	As per drawing			
6	6	As per drawing			
7	7	As per drawing			
8	8	As per drawing			
9	9	As per drawing			
10	10	As per drawing			
11	11	As per drawing			
12	12	As per drawing			
13	13	As per drawing			
14	14	As per drawing			
15	15	As per drawing			
16	16	As per drawing			
17	17	As per drawing			
18	18	As per drawing			
19	19	As per drawing			
20	20	As per drawing			

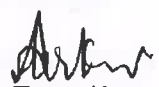
PROJECT :		KALASHWARAM PROJECT PACKAGE - 21	
CLIENT :		GOVERNMENT OF TELANGANA	
CONSULTANT :		U/S MEDICAL ENGINEERING & INFRASTRUCTURES LIMITED.	
JOB No. :		11-100	
DATE :		11-100	
TITLE :		PLAN AND SECTIONAL DETAILS OF 2.00M DIA SADDLE PIPE FOR ROAD CROSSING (NH-44) AT CH 13.621 KM (O&N LINE)	
SCALE :		1:100	
PROJECTION :		FIRST ANGLE	
SHEET No. :		1 OF 1	
DATE :		11-100	
DESIGNED BY :		11-100	
CHECKED BY :		11-100	
APPROVED BY :		11-100	
DATE :		11-100	

INSPECTION REPORT

Sub: Kaleshwaram Project – Nizamabad District – Formation of New reservoir by clubbing and raising of Kondam Cheruvu and Manchippa Tank for storage of 3.50 TMC and providing pressurized pipe irrigation system in place of Open Gravity Canal system to create an IP of 2,00,000 Ac in Nizamabad and Jagtial Districts – Laying of MS Pipeline crossing from Km. 344.092 on RHS to Ch. 344.119 on LHS i.e. @ Km. 344.100 by encasing with 300mm dia MS pipe near Bibipur Thanda - Reg.

The proposed site for laying of Water supply pipeline is inspected and the following are noted:

1. The proposed laying of water supply line falls under AP-1 package.
2. There is no hindrance of avenue plantation on the proposed site for laying of water supply line
3. The proposal meeting the requirements of MORTH
4. The proposal submitted is examined and recommended for granting the permission


(A. Tarun Kumar)
PROJECT Director
NHAI, PIU, NIRMAL

CERTIFICATE

Sub: Kaleshwaram Project – Nizamabad District – Formation of New reservoir by clubbing and raising of Kondam Cheruvu and Manchippa Tank for storage of 3.50 TMC and providing pressurized pipe irrigation system in place of Open Gravity Canal system to create an IP of 2,00,000 Ac in Nizamabad and Jagtial Districts – Laying of MS Pipeline crossing from Km. 344.092 on RHS to Ch. 344.119 on LHS i.e. @ Km. 344.100 by encasing with 300mm dia MS pipe near Bibipur Thanda - Reg.

It is certified as under:

Confirming for all standard conditions issued vide Ministry Circular No. NH-41(58)/68 dtd 31.01.1969, Circular No. NH-III/P/66/76 dtd 18/19.11.1976, Circular No. RW/NH-III/P/66/76 dtd 11.05.1982, Circular No. 11037/1/86-DOI (ii) dtd 28.07.1993, Circular No. RW/NH-11037/1/6/DOI dtd 19.01.1995, Circular No. RW/NH-34066/2/95/S&R dtd 25.10.1999 and Circular No. RW/NH-34066/7/2003 S&R (B) dtd 17.09.2003.

(i) "It is certified that any other location of the Water Supply pipeline would be extremely difficult and unreasonable costly and the installation of Water Supply 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-laning -

I do certify that sufficient ROW is available at site for accommodating proposed six-laning.

The available width of ROW is 60m in the above stretch.

(iii) I do hereby certify that the proposed permission will enter in the register of records of the permission in the prescribed proforma.


A. Tarun Kumar)
PROJECT Director
NHAI, PIU, NIRMAL