



# 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 - हैदराबाद

डो. नं. 8-2-269/S/94, प्लॉट नंबर 94, रोड नं.2, सागर सोसाइटी, बंजारा हिल्स, हैदराबाद - 500034, तेलंगाना

## REGIONAL OFFICE - HYDERABAD

D.No. 8-2-269/S/94, Plot No. 94, Road No.2, Sagar Society, Banjara Hills, Hyderabad - 500034, Telangana

टेली / Tele: 040-29562147, 040-29562148 / ईमेल / Email: rohyderabad@nhai.org / nhairohyd@gmail.com



### Notice Inviting Public Comments

NHAI/RO-HYD/25011/3/43/2024/Utility/1439

Dt.26.10.2024

**विषय: भा.रा.रा.प्रा- क्षेत्रीय कार्यालय, हैदराबाद – प.का.इ कामारेड्डी** - Permission for replacement of existing GPR pipe line along NH-44 utility corridor (Nagpur-Hyderabad road) from Km.318/500 to Km.371/132 for a length of 41.732 Km in the state of Telangana - Reg.

Ref: 1. PIU Lr.no. NHAI/PIU-KMR/Utility/RWS&S/2024/1283, dated 24.10.2024

The Project Director, NHAI vide letter cited above has recommended the Proposal of M/s. Mission Bhagiratha department regarding laying of water Pipeline along NH-44 from Km.318+500 to Km.371+132 (LHS) (Govindpet to Mallannagutta) on Nagpur-Hyderabad section of NH-44 in the State of Telangana.

2. As per para 4 of the Ministry's guidelines no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, public comments is 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,  
D.No. 8-2-269/S/94, Plot No.94  
Road No.2, Sagar Society,  
Banjara Hills, Hyderabad - 500 034,  
Telangana State,  
Phone: 040-29562147, 040-29562148,  
Email: [rohyderabad@nhai.org](mailto:rohyderabad@nhai.org), [nhairohyd@gmail.com](mailto:nhairohyd@gmail.com)

Encls: Above Proposal

*भीमसेना रेड्डी*

(जी.वि. भीमसेना रेड्डी)

उप महाप्रबंधक (तक.)

कृते क्षेत्रीय अधिकारी – एवं -  
राजमार्ग प्रशासक, हैदराबाद

To:

1. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website. (Through email: mansoor@nic.in)
2. Shri S.Manivasagam, Dy. GM (IT), NHAI HQs, New Delhi for uploading on NHAI website.

Copy to:- The PD, PIU Kamareddy: for information

FORM-A

Form for seeking claims and objections (on grounds of public inconvenience, safety and general public interest) on the application for Accommodation of Public and Industrial Utility Services along and across National Highways

**विषय:भा.रा.रा.प्रा- क्षेत्रीय कार्यालय, हैदराबाद – प.का.इ कामारेड्डी** - Permission for replacement of existing GPR pipe line along NH-44 utility corridor (Nagpur-Hyderabad road) from Km.318/500 to Km.371/132 for a length of 41.732 Km in the state of Telangana - Reg.

The claims and objections (on grounds of public inconvenience, safety and general public interest) by the general public needs to be given within 30 days of uploading the online application for comments

Sl. No	Item	Details
1	Name of the person who is desiring to give claims and objections (on grounds of public inconvenience, safety and general public interest)	
2	Address of the person	
3	Details of the application for Accommodation of Public and Industrial Utility Services along and across National Highways against which claims and objections are being given (name of applicant and other details like site address etc.)	
	a) Application No.	
	b) Name of applicant (who applied to Accommodation of Public and Industrial Utility Services along and across National Highways)	
	c) Details of Application	
4	The claims and objections (on grounds of public inconvenience, safety and general public interest)	

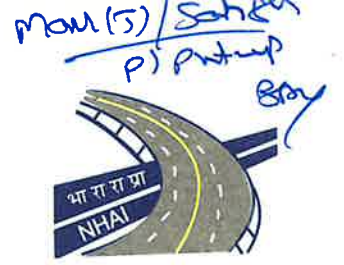




**भारतीय राष्ट्रीय राजमार्ग प्राधिकरण**  
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)  
**NATIONAL HIGHWAYS AUTHORITY OF INDIA**  
(Ministry of Road Transport & Highways, Government of India)

**PROJECT IMPLEMENTATION UNIT : KAMAREDDY**

H.No. 13-78/4, SECOND FLOOR, NEAR ESSAR PETROL PUMP, OLD NH-7 ROAD, KAMAREDDY DISTRICT-503110, TELANGANA  
Phone No : 08468 293488, E-mail: piukamareddy@nhai.org, piukamareddy@gmail.com



NHAI/PIU-KMR/Utility/RWS&S/2024/1283.

Dt: 24.10.2024

To  
The Regional Officer  
National Highways Authority of India  
Regional Office  
Hyderabad



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Sub: NHAI - PIU - Kamareddy - Mission Bhagiratha - MB Circle - Nizamabad - Providing augmentation to CPWSS Kamareddy under SRSP Balkonda Segment - Permission for replacement of existing GRP Pipeline along NH-44 utility corridor (Nagpur-Hyderabad Road) Km.318/500 to 371/132 Govindhpet road Mallannagutta stretch- **Recommendation of work permission for laying of water Pipeline- Approval requested - Reg.,**

Ref: 1. T.o. Lr.No. NHAI/PIU-KMR/Utility/Water PP/2024/962, dtd.08.08.2024.  
2. T.o. Lr. no. NHAI/PIU-KMR/Utility/Water PP/2024/914, dtd.25.07.2024.  
3. M/s. MSV-PI Lr. no. MSV-PI/IE-AP1/2024-25/1024, dtd.21.10.2024.  
4. Undertaking from MB Grid Division Armoor dated on 23.10.2024.  
5. Letter received from the office of Collector Lr.No.C2/5511/2022-M, dtd.27.09.2024

Sir,

With reference to the subject cited above, The Independent Engineer has submitted recommendation of work permission for laying of water Pipeline along NH-44 Hyderabad - Nagpur Highway from Km.318.500 to Km.371.132 for a length of 41.732 km. The Independent Engineer has conducted the joint site inspection along with the Concessionaire and the representatives of the Mission Bhageeratha grid Division and finalized the locations for replacement of existing GRP pipeline with DI pipeline.

The proposal furnished by M/s. Mission Bhageeratha has been forwarded to Independent Engineer and the Independent Engineer vide reference 3<sup>rd</sup> cited has furnished report and recommendations on the proposal.

The details are as follows:

- The above proposed location is located from Km.318.500 to Km.371.132 for a Length of 41.732 Km.
- The available ROW from Km.318.500 to Km.371.132 is 60m
- The applicant has proposed two methods for laying of Water Pipeline
  - a. One Method which is Open Trench Method of 1.9m depth from Ground Level with bottom width of 1.4 m for laying 1000 mm & 800mm dia of DI pipe for laying of Pipe line along the National Highway.
  - b. Another method which is Horizontal Directional Drilling method (HDD) with a depth of 1.5m from the Sub Grade Top to Pipe Top level for providing 1200mm dia of DI pipe.
- The MB, Grid Division Armoor submitted the strip plan/ route plan and the check list enclosed are verified and found in order.

- Restore the locations in as is condition after the completion of the work along with backfilling and cleaning or removal of debris, loose earth produced due to execution of trenching away from the Right of Way (ROW).
- The Applicant has to take prior approval from the forest department, if in case any plantation planted by the Forest Department has to disturbed.
- The trees in the Green belt area should not be cut.
- It is responsibly of the applicant to not to damage the other utilities. If damaged then it is the complete responsibility of the applicant to restore in as is condition.
- The cost estimate for restoration works has been calculated for an amount of 5.51 Cr and communicated to the Mission Bhageeratha Department vide NHA/ Ir.no.1275 dated on 23.10.2024.

Based on the recommendations of Independent Engineer, MB Grid Division submitted the proposal.

- An undertaking submitted by Mission Bhageeratha Department for exemption of Bank Guarantee is requested duly giving consent for proper execution of work.
- License fee for an amount of Rs. 39,19,402/- has been calculated and to be paid accordingly.

The proposal has been verified in accordance with MoRT&H Circulars, dtd.22.11.2016 & 24.04.2023 and the user agency MB Grid has furnished the following:

- Checklist
- Undertakings for Relocation of water pipelines as and when required
- Methodology for laying of water pipeline
- Route plans/Drawings

The proposal submitted by Mission Bhageeratha department is in order and in accordance with MoRT&H circular dtd 22.11.2016 & 24.04.2023. The certificate in respect of conformity of the proposal is enclosed.

Also, this office received requisition from the office of The District collector, Kamareddy, vide 5<sup>th</sup> cited seeking NOC to carry out the Blasting at some required locations where the Soft/Hard Rock strata is existing in the project stretch for laying of the Water Pipe Line.

In view of the above, it is requested to accord approval of the competent authority for the proposal furnished by Mission Bhageeratha department for laying of Drinking Water Pipeline from Km.318.500 to Km.371.132 for a length of 41.732 Km on NHA road (NH-44), at the earliest please.

Encl: As above

 Yours faithfully

(C.Sreenivasa Rao)

DGM (Tech.) & Project Director  
NHA, PIU, Kamareddy

**Copy to:**

1. The Collector and District Magistrate: for kind information please.
2. The Superintendent Engineer, MB Circle Nizamabad : for information and necessary action please.
3. The Team Leader, M/s.MSV-PI: for information.

## CERTIFICATE

Sub: Permission for laying of Drinking Water pipeline of 1000mm & 800mm from Km.318.500 to Km.371.132 for a length of 41.732 Km on NHAI road (NH-44) - Reg.,

It is hereby certified as under

(i) Confirming of all the standard conditions issued vide Ministry Circular No.RW/NH-33044/29/2015/S&R(R), dtd.22.11.2016 & NH-36094/01/2022-S&R(P&B)(E-208825), dtd.24.04.2023 are incorporated in the proposal and the same is herewith confirmed.

(ii) For 6-laning -

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

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



(C.Sreenivasa Rao)  
DGM (Tech.) & Project Director  
NHAI, PIU, Kamareddy

## INSPECTION REPORT

Permission for laying of Drinking Water pipeline of 1000mm & 800mm from Km.318.500 to Km.371.132 for a length of 41.732 Km on NHAI road (NH-44) - Reg.,

The proposed site for laying of Drinking Water pipeline in the stretches is inspected.

1. The above proposed location is located from from Km.318.500 to Km.371.132 (LHS)
2. The available ROW from Km.318.500 to Km.371.132 is 60m
3. The agency has proposed to lay Drinking Water pipeline within 2m of RoW and at the extreme edge of RoW.
4. BSNL and other agency OFC cables are laid in the stretch in the utility corridor of the highway.

The proposal submitted is examined and recommended for granting the permission.



(C.Sreenivasa Rao)  
DGM (Tech.) & Project Director  
NHAI, PIU, Kamareddy





# MSV INTERNATIONAL INC.

In Association with (As a Sub Consultant)

## PRASUNA INFRA PRIVATE LIMITED

**MSV International, Inc.**

Plot No. 15 & 16, 3rd Floor  
Reddy's Apartment  
Near Bus Stand, Beside HDFC Bank  
Nadipally Gram Panchayat  
Dichpally Post Office  
Nizamabad District - 503175  
Email: msv.armurap1@gmail.com  
CIN: F04214

Independent Engineer Services for O&M of 4 Lane Armur to Adloor Yellareddy of Nagpur Hyderabad Section of NH 44 in the State of Telangana on BOT (Toll) NS2/BOT/AP1

Ref: MSV-PI/IE-AP1/2024-25/1024

Date: 21<sup>st</sup> October 2024

To  
The Project Director  
Project Implementation Unit  
H. No. 1-2-21/K16/1B, L.K. Towers, Second Floor,  
Shivaji Chowk, Nirmal – 504106,  
Nirmal District, Telangana



**Sub:** Independent Engineer Services during Operation & Maintenance stage of 4-laned divided carriageway from Km.308.000 (Armur) to Km.367.000 (Adloor Yeallareddy) of Nagpur - Hyderabad section of NH-44 (Old No.7) in the state of Telangana on BOT (Toll) basis under North – South Corridor (NHDP Phase-II) Package No.NS2/BOT/AP-1. – Mission Bhagiratha – MB Circle – Nizamabad – Providing augmentation to CPWSS Kamareddy under SRSP Balkonda Segment – Permission for replacement of existing GRP Pipeline along NH-44 utility corridor (Nagpur-Hyderabad Road) Km.318/500 to 371/132 Govindhpet road Mallannagutta stretch – Recommendation of work permission for laying of water Pipeline along with Report - Reg.

Ref: 1. MSV-PI/IE-AP1/2024-25/1020 dated 17.10.2024.  
2. Authority mail received on dated 14.10.2024.  
3. Authority mail received on dated 05.10.2024.  
4. NHAI/PIU-KMR/Utility/Water PP/2024/962 dated 08.08.2024.  
5. NHAI/PIU-KMR/Utility/Water PP/2024/914 dated 25.07.2024.

Sir,

This is in continuation of this office letter regarding the proposal received from the Mission Bhagiratha grid division regarding permission for laying of Water pipeline across NH-44 Hyderabad – Nagpur Highway at Km.318.500 to Km.371.132 for a length of 41.732 km, the IE has conducted the joint site inspection along with the Concessionaire and the representatives of the Mission Bhagiratha grid Division and the following observation report is furnished for the kind review and acceptance of the Authority.

1. The length of proposed water pipeline from Km.318.500 to Km.371.132 is 41.732 km along NH-44.
2. The Outer-to-Outer diameter of encasing pipe is 1.000m & 0.800m at various locations and the relevant drawings are attached with checklist.

3. As per checklist S.no. 2 and 2.4.2 the methodology for water pipeline laying is attached.

*an*



India Office MSV: Unit No.514, 515 & 516, 5th Floor, Suncity Success Tower, Golf Course Extension Road, Gurgaon-122005 (Haryana)

E-mail: info@msvgroup.com; Tel.: 0091-124-2841160

USA Office MSV: 15215, 62nd Avenue N.E, Kenmore, Washington-98028, USA, Tel.: 001-425-488-4442. Email: [msvgroup@msv.com](mailto:msvgroup@msv.com)

4. As per Ministry circular F.No. NH-36094/01/2022-S&R(P&B) (E-208825) dated 24.04.2023, para 5.2, the amount towards the license fee / lease rental has been calculated by IE for utility services and enclosed as Annexure-A for your reference.
5. As per para 6 of Ministry circular F. no.RW/NH-33044/29/2015/S&R9 (R) dated 22.11.2016, the performance bank guarantee calculated and enclosed as Annexure-B.
6. Utility owner shall inform NHAI/Concessionaire/IE before starting the work for laying of Water pipeline as well as at the time of completion of work.
7. As per checklist S, No.2.3, the strip plan is included in the drawing.
8. While carrying out the works, all safety precautions shall be taken by the Agency without affecting the traffic, other existing utilities and construction works, if any.
9. Utility owner shall install/ensure proper identification marks at water pipe laying location.
10. If any utility is damaged while laying of water pipe supply, the cost of their replacement/repairs shall be borne by the Mission Bhagiratha Grid division.
11. As per the undertaking given by the Mission Bhagiratha Grid division, the expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the utility line will be borne by the said agency owning the water supply pipeline.
12. As per the undertaking by the Mission Bhagiratha Grid division, they have to relocate pipelines at their own cost, notwithstanding the permission granted in such time as intimated by the Authority when the future development works shall be taken up.
13. The Agency should comply with all standard conditions of NHAI as per check list.

As, stipulated in policy guidelines at Sr.no.4, the initial permission would be valid for a maximum period of 5 years at a time, which can thereafter be considered for renewal, upon payment of additional fee at the time of renewal. The permission shall automatically be renewed unless defaults exist. In case of renewal, rates prevailing at the time of renewal shall be charged.

Further, para 5.3 of Ministry circular F. no.RW/NH-33044/29/2015/S&R9 (R) dated 22.11.2016, stipulates that the fee shall have to be paid in advance for which permission is granted. In case of renewal, rates prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.

To process granting of permission and prior to signing of lease agreement, performance bank guarantee for an amount based on per route meter (as per Annexure-B) with a validity of One year initially, shall have to be furnished by the utility service provider.

The licence to lay the pipeline notwithstanding, any requisition by the NHAI for relocation due to any development work shall have to be carried out by the Mission Bhagiratha Grid division at their cost and shall have no claim against NHAI, whatsoever.





In view of the above, check list submitted by Mission Bhagiratha Grid division has been reviewed by IE and found in order as per the circular. Hence, IE recommends the Authority to grant permission to the agency for execution of work after deposition of the licence fee and bank guarantee for approval at your end and further necessary action.

This is for your kind information and necessary action please.

Thanking you and assuring you of our best services at all times.

**Yours Faithfully,**

**For MSV International Inc in Association with  
Prasuna Infra Pvt Ltd.**



**T. Ramarao  
Resident Engineer**

**Copy to:** 1. Project Manager, ADTPL, Indalwai for Information please.

**Encl:** 1. Annexure - A  
2. Annexure - B  
2. Checklist & drawings  
3. Unit rates for land as per Registration & Stamps department, Telangana

## CHECK - LIST

Guidelines for Project Directors for Processing the proposal for laying of water Supply Pipe Line in the along National Highways vested with NHAI.

### Relevant circulars

1. Ministry Circular No. NH-4 1 (58)/68 dated 31.1.1969.
2. Ministry Circular No. NH- III/P/66/76 dated 18/19.11.1976.
3. Ministry Circular No. RW/NH -III /P/66/76 dated 11.5.1982.
4. Ministry Circular No. RW/NH -11037/1/86-DOI (ii) dated 28.07.1993.
5. Ministry Circular No. RW/NH - 11037/1/86/DOI date 19.1.1995.
6. Ministry Circular No. RW/NH -34066/2/95/ S & R dated 25.10.1999.
7. Ministry Circular No. RW/NH -34066/7/2003 S & R (B) dated 17.9.2003.

### Check list for getting approval for Providing Augmentation to CPWSS Kamareddy under SRSP Balkonda Segment

S.No	Item	Information/ Status	Remark
1	General Information	Replacement of existing GRP Drinking Water pipe line along NH 44 from ch 318/500 to 322/730 & 332/900 to 372/200	
1.10	Name and Address of the Applicant/Agency	Executive Engineer, MB Grid (RWS&S Dept) Armoor Divn	
1.20	National Highway Number	44	
1.30	State	TELANGANA	
1.40	Location	Kamareddy & Nizamabad	
1.50	(Chainage in Km)	ch 318/500 to 322/730 & 332/900 to 372/200	
1.60	Length in Meters	41.56	
1.70	Width of available ROW		
	(a) Left side from center line towards increasing chainage/km direction	30.00 mtrs	
	(b) Right side from center line towards increasing chainage/km direction	30.00 mtrs	
1.80	Proposal to lay underground pipe line		
	(a) Left side from center line towards increasing chainage/km direction	27.00 mtrs	
	(b) Right side from center line towards increasing chainage/km direction	27.00 mtrs	
1.90	Proposal to acquire land	Not applicable	
	(a) Left side from center line		
	(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		
1.11	Details of already laid services, if any, along the proposed route		
1.12	Number of lanes (2/4/6/8 lanes) existing	4 lanes	
1.13	Proposed Numbers of lanes (2 lane with paved shoulders/4/6/8 lanes)	4 lanes	
1.14	Service road existing or not if yes then which side	No	

	(a) Left side from center line	Not applicable	
	(b) Right side from center line	Not applicable	
1.12	Proposed Service road		
	(a) Left side from center line	Not existing	
	(b) Right side from center line	Not existing	
1.15	Whether proposal to lay water supply pipe line is after the service road or between the service road and main carriageway	Yes	
1.17	<p>The Permission for laying of water Supply Pipe Line shall be considered for approval / rejection based on the Ministry Circulars mentioned as above.</p> <p>(a) Carring of sewage/ gas pipeline on highway bridges shall not be permitted as Furmes /gases pipes can accelerate the process of corrosion or may cause explosoins, thus, being muth more injurious than leakage of water.</p> <p>(b) Carring of water pipe lines on brideges shall also be discouraged. However , if the water supply 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 pipeline on independent superstruvture, supported on extended portions of iers and abutments in such a manner that in the final arrangement enough free spade around the superstructure of the bridge remains available for inspection and repair, etc.</p> <p>(c) Cost of requied extension of the substructure as well as that of the supporting superstructure shall be borne by the agency-in-charge of the utilities.</p> <p>(d) Serives 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 <b>Ministry's Project Chief Engineers Only.</b></p>	May be considered	
1.18	<p><b>if Crossing of the road involved</b></p> <p>If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.</p>	yes,(130rmt HDD at Ch. 340/900 Km @ Dichpally Island and 60rmt HDD at Ch. 341/400 Km @ VUP Dichpally )	
	(a) Existing drainge structures shall not be allowed to carry the lines.	Not applicable	
	(b) Is it on a line normal to NH	yes	
	( c ) Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures.	yes	
	(d) The casing pipe ( or conduit pipe in the case of electric cable ) carring the utility line shall be of steel, cast iron, or reinforced cement concrete and have adequate strenght and be large enough to permit ready withdrawla of the carrier pipe/ cable.	yes	

	(e) Ends of the casing/conduit shall be sealed from the outside, so that it does not 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 toe of slope in the fills.	yes	
	(g) The top pf the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts.	yes	
	(h) Crossing shall be by boring method (HDD) specially where the exsting road pavement is of cement concrete or dense bituminous concrete type.	yes	
	(i) The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	yes	
2	Document / Drawings enclosed with the proposal		
2.10	Crossing section showing the size of trench for open trenching method ( Is it normal size of 1.2 m deep X 0.3 m wide) (i) Should not be greater than 60 cm wider than the outer diameter of the pipe ( ii ) located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway (iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges (iv) Theses should be so laid that their top is at least 0.6 meters below the ground level so as not to obstruct drainge of the road land.	attached	
2.20	Cross section showing the size of pit and location of cable/ Pipeline for HDD method	attached	
2.30	Strip plan/ Route Plan showing Water Supply pipe line, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, instersections, cross drainage works etc.	attached	
2.40	Methodology for laying of showing Water Supply pipe line.	attached	
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	attached	
	(a) The trench width should be at least 30 cm, 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, cols and cobbles and graded to yield a firm surface without sudden change in the bearing value	YES	
	Unsuitable soil and rock edged should be excavated and repalaced 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 sidefill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.	YES	
	e) The road crust shall built to the same strengh as the existing crust on either side of the trench. Care shall be tacken to avoid the formation of a dip at the trench.	YES	
	(f) The excavation shall be protected by flagman,sing and barricades, and red lights during	YES	
	(g) If required, a diversion shall be constructed at the expenses of agency owning the utility line.	YES	
2.4.2	Horizontal Directional Drilling (HDD) Method		
	(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 30 m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No.NH-HI/P/66/76 dated 19.11.1976.	yes	
3.00			
4.00	Draft License Agreement signed by two witnesses		
	Performance Bank Guarantee in fovour of NHAI has to be obtained @ Rs.100/- per running meter (parallel to NH ) and Rs 1,00,000/- per crossing of of NH , for a period of one year initially ( extendable if required till statisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the cables/debris/loose earth produced due to execution of trenching at least 50 m away from the edge of the right of way. No payment shall be paybl by the NHAI to the licensee for clearing debris/losse earth.	Not applicable	Replaceme nt of Existing GRP pipeline with DI pipeline
4.10	Performance BG as per above is to be obtained.	to be Submitted	
4.20	Confirmation of BG has been obtained as per NHAI guidelenes	NA---- Govt of Telangana	
5.00	Affidavit / Undertaking from the Applicant for		
5.10	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Submitted	

5.20	Renewal of Bank Guarantee	NA---- Govt of Telangana	
5.30	Confirming all standard condition of NHA's guideline	yes	
5.40	Shifting of Water Supply pipe line as and when required by NHA at their own cost	Submitted	
5.50	Shifting due to 6 lanning / widening of NH	Submitted	
5.60	Indemnity against all damages and claims clause (xxiv)	Submitted	
5.70	Traffic movement during laying of Water Supply pipe line to be managed by the applicant	Submitted	
5.80	If any claim is raised by the Concessionaire then the same has to be paid by the applicant	Submitted	
5.90	Prior approval of the NHA shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing Water Supply pipe line located in the National highway right-of-ways.	Submitted	
5.10	Expenditure, if any, incurred by NHA for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Water Supply pipe line will be borne by the agency owning the line	Submitted	
5.11	If the NHA 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 NHA at the cost of the agency owning the utility line within a reasonable time ( note exceeding 60 days ) of the intimation given	Submitted	
5.12	Certificate from the applicant in the following format (i) Laying of Water Supply pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) for 6 - line "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHA" for future six - lanning or any other development.	Submitted	
6.00	Who will sign the agreement on behalf of Water Supply pipe line agency.	Executive Engineer, MB Grid (RWS&S Dept) Armoor Divn	
7.00	Certificate from the Project Director		
7.10	Certificate for confirming of all standard condition issued vide Ministry Circular No. Ministry Circular No. NH-41 (58)/68 dated 31.1.1969, Ministry Circular No. NH - III/P/66/76 dated 18/19.11.1976, Ministry Circular No. NH - RW/NH-11037/1/86/DOI dated 28.07.1993, Ministry Circular NO. RW/NH-34066/2/95/ S&R dated 25.10.1999 and Ministry Circular No. RW/NH-34066/7/2003 S & R (B) dated 17.09.2003	Yes	

7.20	Certificate from PD in the following format (i) " It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the intallation of Water Supply pipe line with in ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carrigeway, easing of curve ect" (ii) for 6 -- lanning (a) Where feasibility is available " I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed six-laning based on the said location". (b) In case feasibility report is not available at site for accommodating proposed six-laning"	Yes	
8.00	If NH section proposed to be taken up by NHAI on BOT basis - a clause is to be inserted in the agreement. "The permitted Highway on which Licensee has been granted as a right to lay cable/duct has also been granted as a right of way to the concession under the concession agreement for up-gradation of ("Design, Construction, Development, Finance, Operation and Maintenance of Km.308.000 (Armur) to Km.447.000 and II) Improvement, Operation and Maintenance of Km.447.000 to Km. 464.000 (Gundla Pochampalli) on NH-44 (Old NH-7) in the state of Telangana")	Yes	
9.00	Who will supervise the work of laying of Water Supply pipe line	IC/ NHAI	
10.00	Who will ensure that the defects in road portion after laying of Water Supply pipe line are corrected and if not corrected then what action will be taken	IC/ NHAI	
11.00	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.	Executive Engineer, MB Grid (RWS&S Dept) Armoor Divn	
12.00	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)	Yes	
13.00	If any previous approval is accorded for laying of underground water supply pipe line then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Enclosed	

Admstr  
AE/MB Grid  
Nizamabad SD

A. Nagaraj



Executive Engineer  
MB GRID DIVISION, ARMOUR

PROJECT DIRECTOR  
National Highways Authority of India  
PIU. KAMAREDDY



## METHODOLOGY FOR CROSSING OF WATER SUPPLY PIPELINE ON NATIONAL HIGHWAY

### 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 & thrust wall are constructed in the launching/drive pit, these can be of RCC

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

#### **Boring Procedure consists following steps:**

##### **Step1**

The casing pipe is lower on the driver rig. The line & level is checked

##### **Step2**

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 misalignment is rectified

##### **Step3**

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 – 450mm depending on soil condition.

##### **Step4**

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

### Step 5

- Step 3 & Step 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 previous section and all the steps from 3 to 4 are repeated

### Step 7

Steps from 3 to 6 are 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	Methodology
1200mm dia encased and 700mm dia carrier pipe.	MS pipe	Horizontal drilling method (jack pushing)

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

AE/MB-Grid  
Nizamabad SD

A. Nagesh



Executive Engineer (FAC)  
MB Grid Division, Armoor

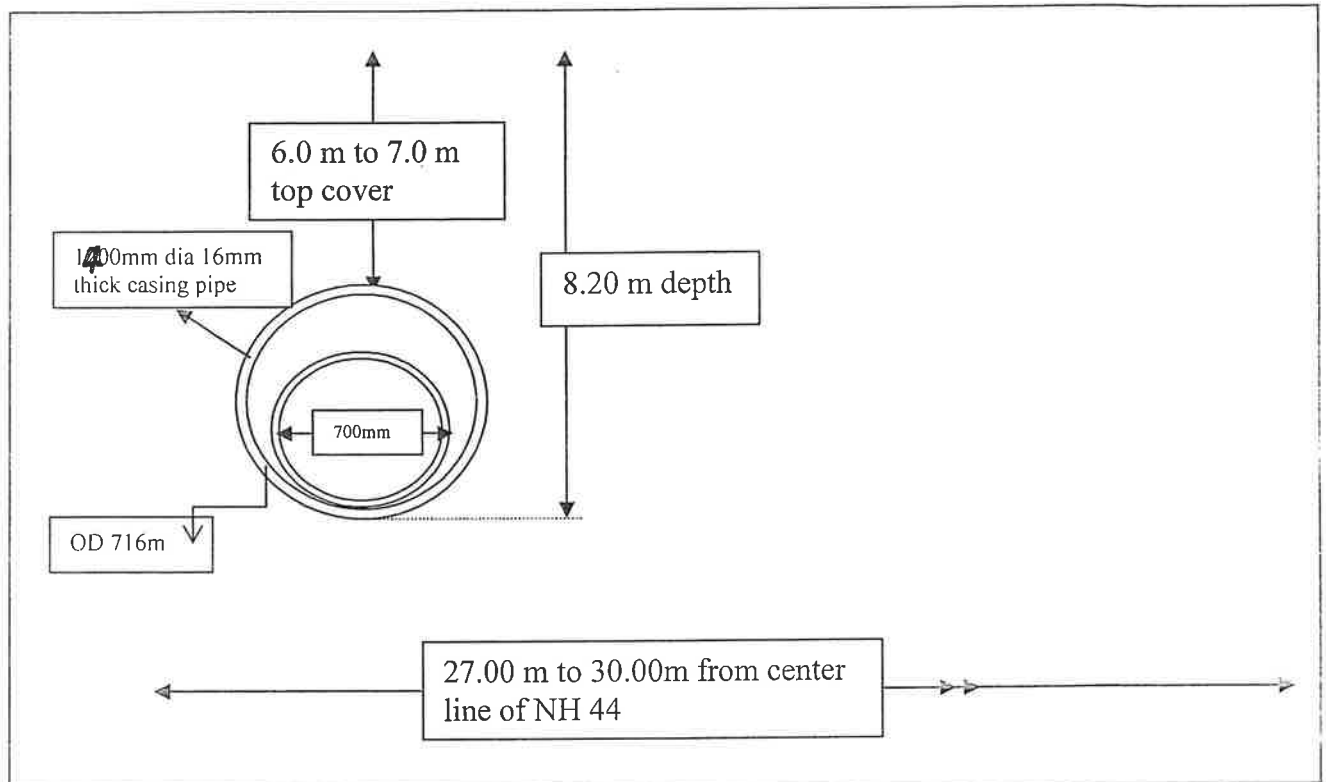
PROJECT DIRECTOR  
National Highways Authority of India  
PIU, KAMAREDDY

**GOVERNMENT OF TELANGANA**  
**MISSION BHAGIRATHA DEPARTMENT**

Providing Augmentation to CPWSS Kamareddy under SRSP Balkonda Segment

**PIPE LINE LOCATION AND DETAILS**

**Loop Road Crossing at NHAI Ch. 340/900 Km @Dichpally Island using**  
**Trenchless Technology**



*W. Srinivas*  
AE/MB-Grid  
Nizamabad SD

*10.10.2023*  
Executive Engineer  
MB GRID DIVISION, ARMOOR  
*by*



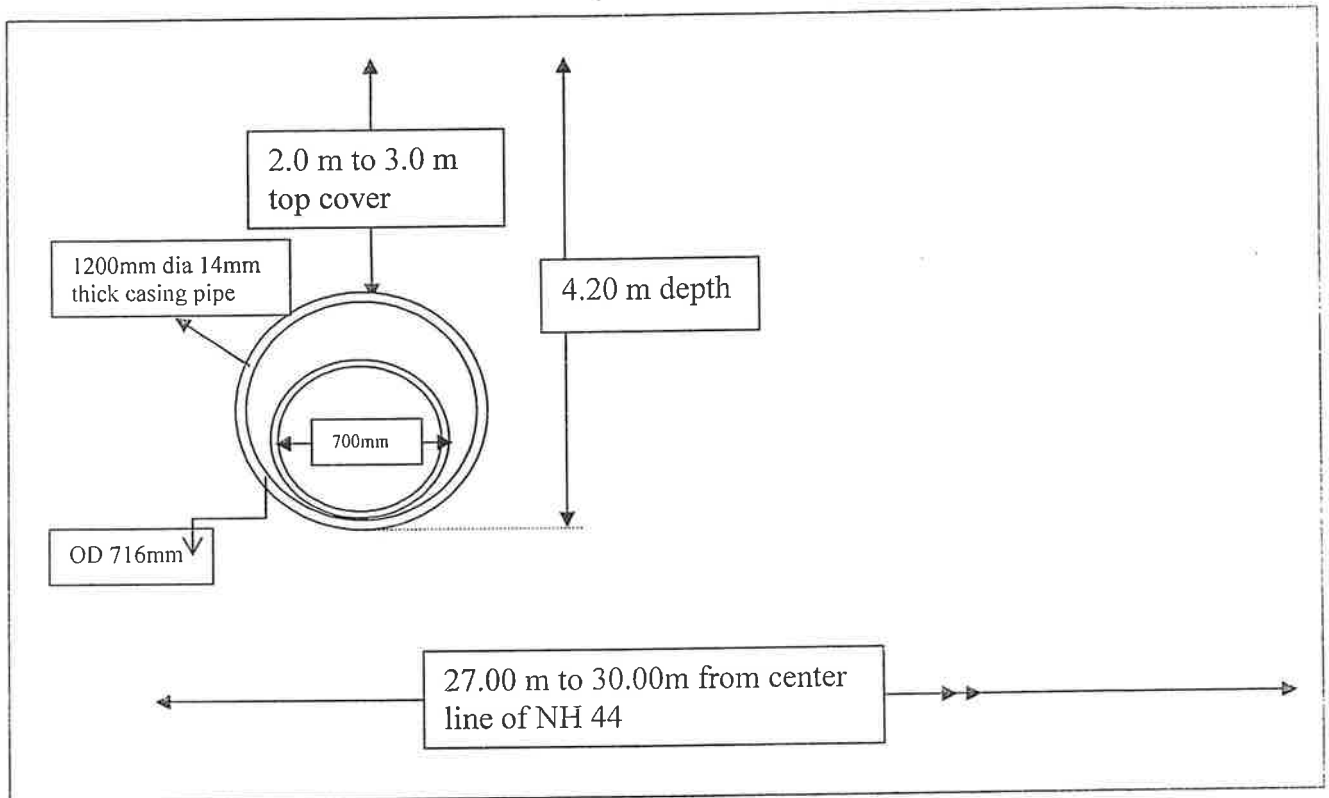
*Ch. Srinivas*  
**PROJECT DIRECTOR**  
National Highways Authority of India  
PIU. KAMAREDDY

**GOVERNMENT OF TELANGANA**  
**MISSION BHAGIRATHA DEPARTMENT**

Providing Augmentation to CPWSS Kamareddy under SRSP Balkonda Segment

**PIPE LINE LOCATION AND DETAILS**

**Loop Road Crossing at NHAI Ch. 341/400 Km @ VUP Dichpally using**  
**Trenchless Technology**



*checked*  
AG/MB-Grid  
Nizamabad SD

*leg*  
Executive Engineer  
MB GRID DIVISION, ARMOOR

*A. Nagesh*



*Signature*

**PROJECT DIRECTOR**  
**National Highways Authority of India**  
**PIU, KAMAREDDY**

# STRIP PLAN SHOWING THE ALIGNMENT OF PIPELINE ALONG THE HIGHWAY AND LOOP CROSSINGS AT CH.340/900 AND CH.341/400 OF NH 44

Armoor  Towards Hyderabad

Near Dichpally Island



Govindpet

Mallannagutta

NH 44 Highway

CH.341/400

CH. 340/900

————— Proposed Pipeline to be laid  
 ..... Proposed Loop Road Crossing at Ch 340/900 and Ch 341/400

Note : Drawing not to scale



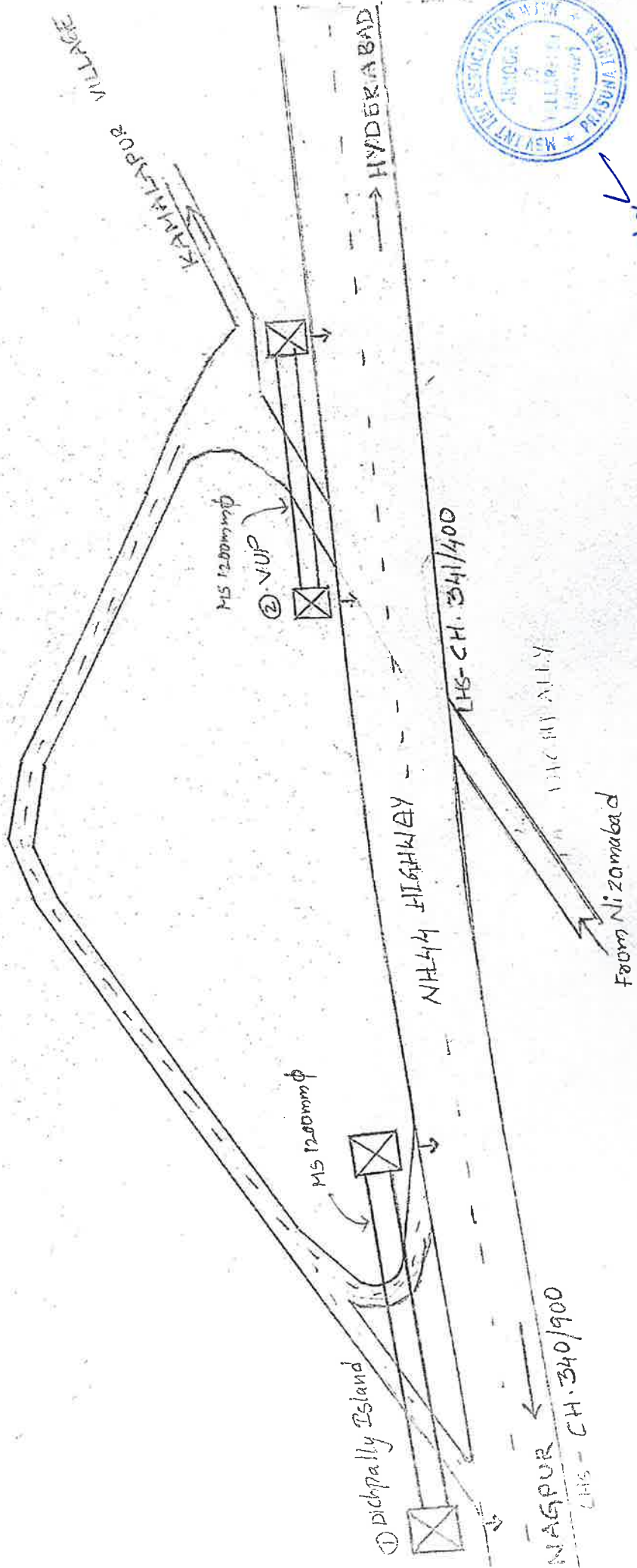
**PROJECT DIRECTOR**  
 National Highways Authority of India  
**PIU. KAMAREDDY**

**Executive Engineer**  
**GRID DIVISION, ARMOOR**

*Handwritten:*  
 AE / MB-Grid  
 Kamareddy SD

*Handwritten signature:*  
 A. Jayaram

# KEY PLAN OF SHOWING HDD AT DICHIPALLY INHAT LODP ROAD NEAR NAGPUR RAILWAY GATE



Executive Engineer  
MB GRID DIVISION, ARMOOR

A. Dapshu

AE MB-Grid  
Nizamabad SD



Name of the Work : Providing Augmentation to CPWSS Kamareddy under SRSP-Balkonda Segment

Stretch : Govindpet to Mallannagutta along NHAI 44 (LHS)

S.no	Chamber Size/Stem	No.s	Remarks
1	3.00*2.00*2.50	22	
2	1.20*1.20*2.10	11	
3	1.70*1.20*2.10	6	
4	150mm Air valve stem	31	
5	200mm Air valve stem	59	

Amr  
AE MB-Grid  
Nizamaabad SD

22/11/2019  
DE. M. G. S.  
SA. M. S.

Executive Engineer  
JIB GRID DIVISION, ARMOOR



A. S. Reddy



100MM

Ergebnisse

100MM THICK  
PRE CAST COVER SLABS 4Nos

8MMDIA @230c/c  
IN THE FORM OF MESH

12MM

G.L

8MMDIA @230c/c  
VERTICAL AND  
CIRCUMFERENTIAL

100MM THICK

1700mm

100MM THICK

8MMDIA @230c/c  
IN THE FORM OF MESH

LAUNCHING

1700mm

RAFT 100MM THICK

100MM

P C C 75MM THICK

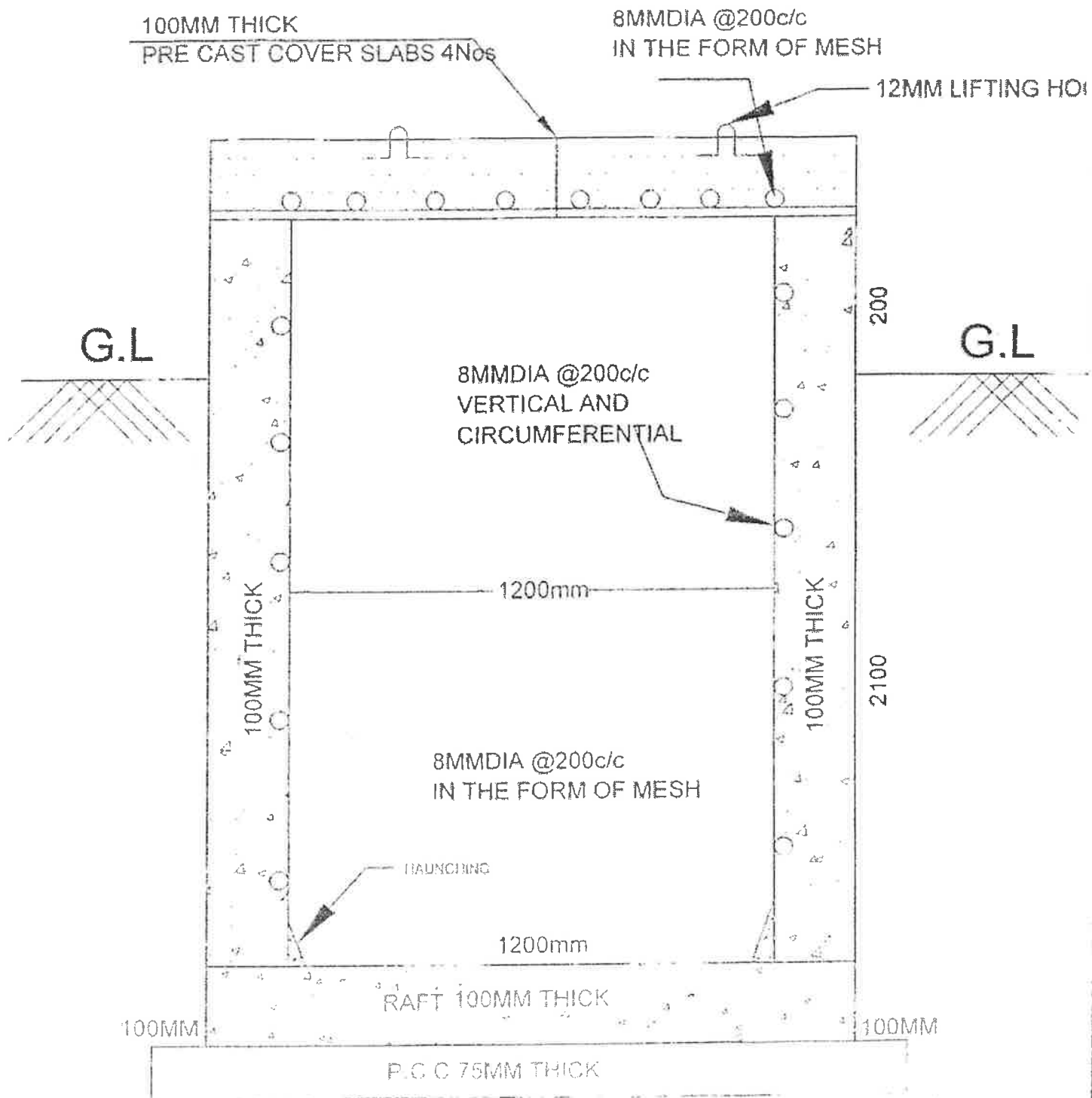
100MM

*Dr. M. Sridhar*  
Asst. Engineer  
Commandry S/D

*M. S. Sridhar*  
Executive Engineer  
M.B. Gnd. Sub-Div. Kanareddy

Executive Engineer  
M.B. Gnd. Sub-Div. Kanareddy

Chamber size - 1.20 x 1.20 x 2.10 m

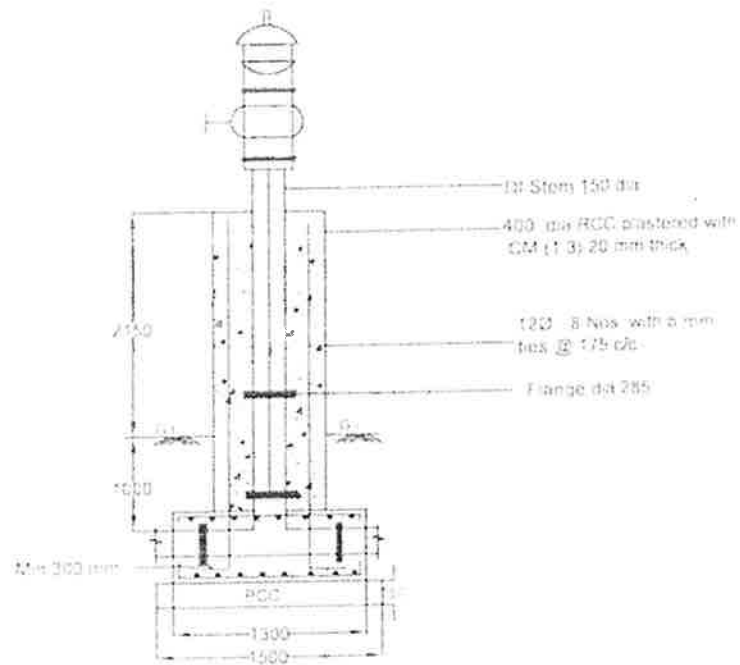


400mm  
AE / MS - 3000  
100mm

200mm  
100mm

EXHIBIT 10/100  
MS 100mm 100mm

400MM DIA. RCC SUPPORT FOR 150MM DIA. AIR VALVE ON DI PIPES FROM 500-700 MM DIA

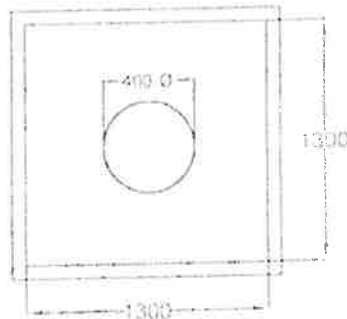


CROSS SECTION

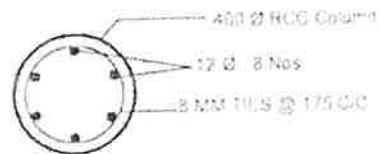
12 Ø @ 150 C/C  
bothways



REINFORCEMENT DETAILS OF MAT  
TOP AND BOTTOM



PLAN



REINFORCEMENT DETAILS OF VERTICALS

*Amu*  
RE MB-Grid  
Nizamedd SP

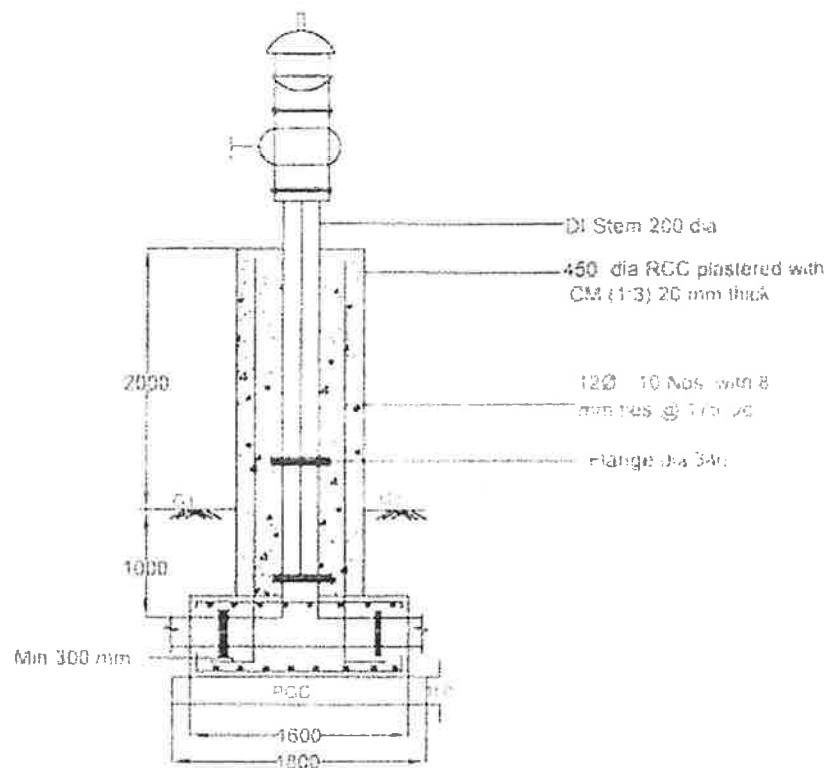
*Relp*  
DE.MB Grid  
SP

Executive Engineer

MB GRID DIVISION, ARMO

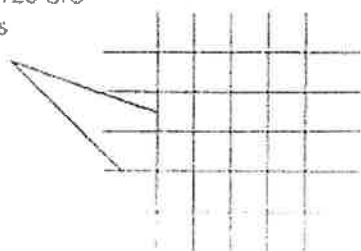
400MM DIA. RCC SUPPORT FOR 150MM DIA.  
AIR VALVE ON DI PIPES FROM 500-700 MM DIA

# 450MM DIA. RCC SUPPORT FOR 200MM DIA. AIR VALVE ON DI PIPES FROM 800-1000 MM DIA

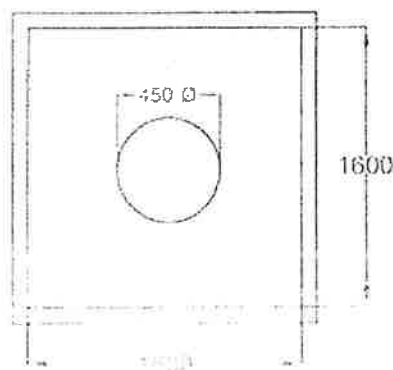


CROSS SECTION

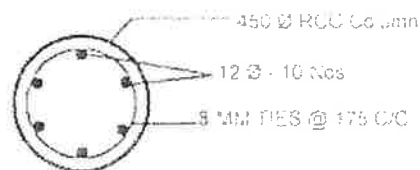
12 Ø @ 125 C/C bothways



REINFORCEMENT DETAIL FOR TOP AND BOTTOM



PLAN



REINFORCEMENT DETAILS

*Prepared by*  
*Checked by*  
*Approved by*

*Executive Engineer*  
*Water Supply Department*  
*Muzaffargarh District*

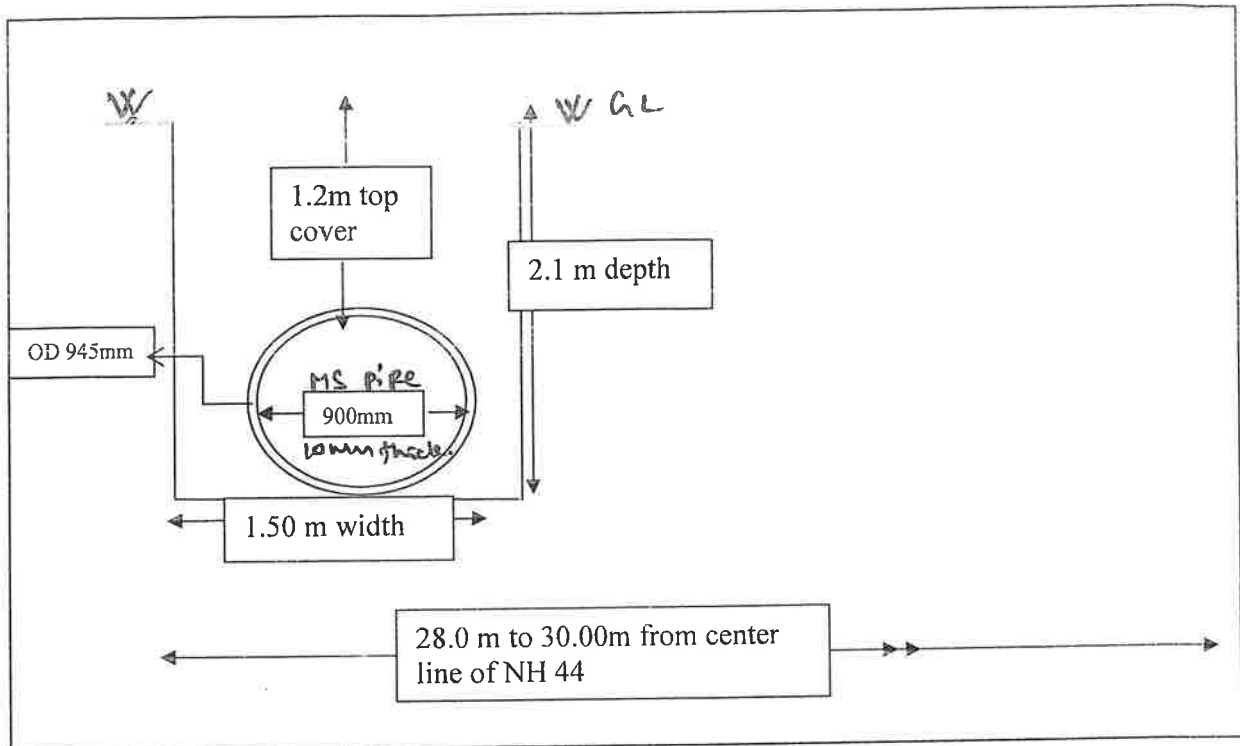
*Executive Engineer*  
*Water Supply Department*  
*Muzaffargarh District*

**GOVERNMENT OF TELANGANA**  
**MISSION BHAGIRATHA DEPARTMENT**

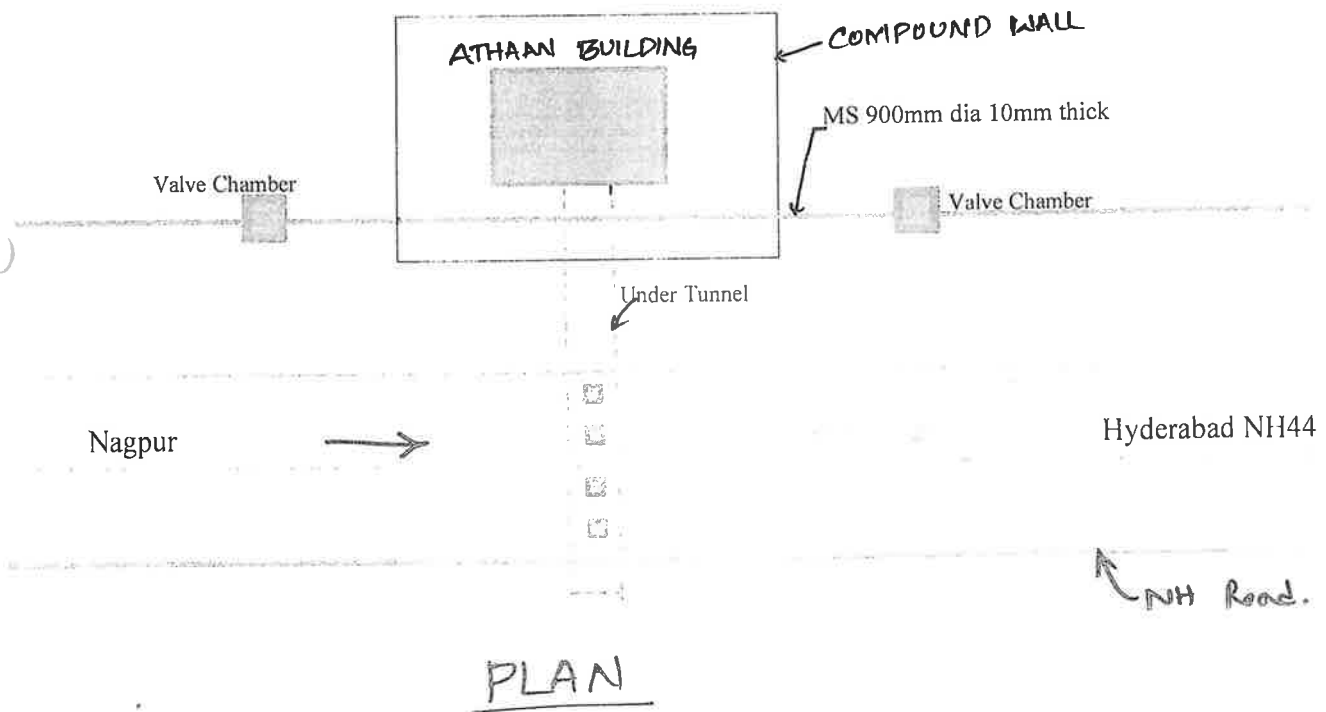
Name of

Work : Providing Augmentation to CPWSS Kamareddy under SRSP Balkonda Segment

A) Pipeline Laying near Toll Plaza @ Indalwai ( LHS Km 349/900 to LHS 350/000 )



Cross Section



PLAN

By  
PCC/MB/Indalwai  
Kamareddy SD

By Executive Engineer,  
NH 349/900 to NH 350/000

Executive Engineer  
NH 349/900 to NH 350/000