

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

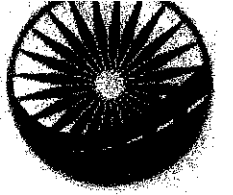
(Ministry of Road Transport and Highways, Govt. of India)

क्षेत्रीय कार्यालय \ REGIONAL OFFICE

ई-2/167, अरेरा कॉलोनी, हबीबगंज रेल्वे स्टेशन के पास, भोपाल (म.प्र.) 462 016
E-2/167, Arera Colony, Near Habibganj Railway Station, Bhopal (M.P.)-462 016

दूरभाष/Phone : 0755-2426638, फैक्स/Fax : 0755-2426698, ई-मेल/E-mail : robhopal@nhai.org

NHAI/RO-MP/BPL/BPL-Biaora/NH-12/PKG-II/Permission/2019/ 37392 Date:24.12.2019



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Invitation of Public Comments

Sub: Balance work for 4-laning of Bhopal-Biaora section of NH-12 from Mubarakpur to Biaora from km. 324.000 to km. 423.400 (Package-II) on EPC mode in the State of Madhya Pradesh-*Permission for laying pipeline along / across NH-12, Bankpura-Kushalpur multi village rural water supply scheme District-Rajgarh (MP)-reg.*

Ref: (i) PD, PIU Bhopal letter No.14895 dated 17.12.2019
(ii) PD, PIU Bhopal letter No.14131 dated 11.09.2019
(iii) PD, PIU Bhopal letter No.13628 dated 01.07.2019
(iv) PD, PIU Bhopal letter No.13263 dated 11.05.2019
(v) PD, PIU Bhopal letter No.11299 dated 30.05.2018

The Project Director, PIU-Bhopal NHAI vide their vide their various letters reference above has submitted the proposal for "Permission for laying pipeline along / across NH-12, Bankpura-Kushalpur multi village rural water supply scheme District-Rajgarh (MP)."

2. The proposed pipeline is crossing the NH-12 being developed by NHAI for 4 lane in the work of Balance work for 4-laning of Bhopal-Biaora section of NH-12 from Mubarakpur to Biaora from km. 324.000 to km. 423.400 (Package-II) on EPC mode in the State of Madhya Pradesh at 4 locations i.e Ch 407+380, Ch. 411+060, Ch. 413+660, Ch 418+320.

3. As per Ministry vide OM No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the Highways Administrator will make available the proposal seeking permission for utility laying for public comments for 30 days on ground of Public Interest

4. In view of the above the comments of public are invited on captioned proposal (copy of application is enclosed) and the same should reach to below mentioned address till 24.01.2020 beyond which no comments shall be considered.

The Highway Administrator
O/o Regional Officer,
National Highways Authority of India
E-2/167, Arera Colony,
Near Habibganj Railway Station,
Bhopal (MP)-462016
E-mail ID: robhopal@nhai.org

4. This issues with the approval of Highways Administrator-cum Regional Officer, NHAI-Bhopal (MP).

(Signature)
(Avneet Siddharth)
Dy. Manager (T)

Copy to:

- (i) The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.
- (ii) The Project Director, PIU-Bhopal for information please.
- (iii) The GM, MPJNM, PIU Rajgarh -for kind information please.

**Laying of Underground Water Main cross the National Highway
Details Regarding Underground Pipe Laying**

S.No.	Particular	
1.	<p>(i) Name of Organization asking for Permission</p> <p>(ii) Full Address</p> <p>(iii) Details and purpose for laying the pipe line</p> <p>(iv) Any other details regarding laying</p> <p>(a) Distance of proposed site from the Centre of the road at extreme edge within the road boundary</p> <p>(b) Weather is it possible to lay the proposed lines or not, reasons.</p>	<p>Madhya Pradesh Jal Nigam Maryadit</p> <p>General Manager, PIU, Madhya Pradesh Jal Nigam Maryadit Bhopal(M.P.)</p> <p>Kushalpura – Bankpura, Multi Village Rural Water Supply Scheme, Bioara Dist. Rajgarh.</p> <p>Across and along NH-12</p> <p>30 m</p> <p>Yes, proposed line is to be laid at the depth of 1.2 m which is below any existing line.</p>
2.	<p>Details regarding road alignment where UG is to be laid across the road</p> <p>(i) Name of the road</p> <p>(ii) Category of road (to be ascertained from K.M. Stone on road side) Road under construction</p> <p>(iii) Width of the road :</p> <p>(a) Formation width measured from earthen bank</p> <p>(b) Black top road carriage width</p> <p>(c) Road boundary</p> <p>(d) Location of pipeline laying across the roadside to be mentioned</p>	<p>Bioara Bhopal Road</p> <p>12m</p> <p>10m</p> <p>30m on either side</p>
3.	Details to be supplied on layout drawing	Attached route drawing
4.	<p>Geographic's of the pipeline bought</p> <p>(a) Dimension of the pipe trench</p> <p>(b) Dimension of pipe</p> <p>(c) Size of Rising main (carrier) Pipe</p> <p>(d) Right of way</p>	As per Attached drawing
5.	<p>(i) This is to certify that No. Govt. road land shall be occupied by Madhya Pradesh Jal Nigam Maryadit, Bhopal EXCEPT FOR THE PURPOSE OF LAYING OF UG PIPELINE</p> <p>(II) This is to certify that work shall be accordance with the govt. rules</p>	Agreed

General Manager
MPJNM, PIU
Bhopal

TEAM LEADER
L.N. INFRA PROJECT
SQC, MPJNM, PIU, Bhopal

Manager (Tech.)
NHAI, PIU-Bhopal



**Laying of Underground Water Main cross the National Highway
Details Regarding Underground Pipe Laying**

	(III) This is to certify that all required cost and fees as per rules and regulation of the govt. will be deposited timely..	
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Date -

General Manger

Madhya Pradesh Jal Nigam Maryadit

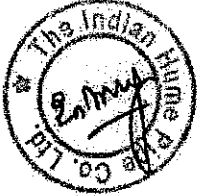
General Manager

MPJNM, PIU

Bhopal

Place -

Enclosure ; Route marked on Map



Team Leader cum Senior Highway Engineer

Authority's Engineer

Lea Associates South Asia Pvt. Ltd.

Bhopal-Biaora Section of NH


परियोजना निदेशक
Project Director


भारत रा. प्रा. परि. क्रिया इकाई भोपाल
NHAI PIU-Bhopal (M.P.)

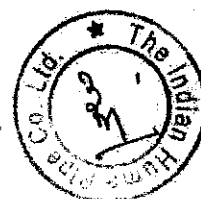
Manager (Tech.)
NHAI, PIU-Bhopal


**Laying of Underground Water Main cross the national Highway
Details Regarding Underground Pipe Laying**

S.No.	Item	Information	Remarks
1	General Information		
1.1	Name and address of the applicant	Madhya Pradesh Jal Nigam Maryadit	
1.2	National Highway Number	NH- 12	
1.3	State	Madhya Pradesh	
1.4	Location	Between Bioara to Narsinggarh	
1.5	Chainage in Km	CH 406.280km to CH. 422.54km	
1.6	Length in meters	9 km	
1.7	Width of available ROW (a) Left side from center line towards Increasing chaingae per km direction (b) Right side from center line towards increasing chainage per Km direction	As Per Drawing attached	
1.8	Proposal to lay the pipe (a) Left Side from center line towards increasing chainage per km direction (b) Right side from center line towards increasing chainage per km direction	As Per Drawing attached	
1.9	Proposal to acquire land	NA	



General Manager
MPJNM, PIU
Bhopal


L.N. INFRA PROJECT
SGC,MPJNM,PIU,Bhopal





Lead Engineer
Authority's Engineer
Lea Associates South Asia Pvt. Ltd.
Bhopal-Bioara Section of NH-12


Manager (Tech.)
NHAI, PIU-Bhopal


परियोजना निदेशक
Project Director
भारत स.पा. परि.क्रिया इकाई-भोपाल
NHAI PIU-Bhopal (M.P.)

Laying of Underground Water Main cross the national Highway
Details Regarding Underground Pipe Laying

1.21	If crossing of the road involved. If yes, it shall only be through trench less Technology	Yes, Horizontal directional Drilling method	
2	Document / Drawing enclosed with the personal	Yes	
2.1	Cross section showing the size of trench open trenching method (Is it normal size of 1.50m deep x 1.25 m x wide) Should not be greater than 1.2 m in width in multiple ducts	Yes, Standard size as per norms.	
2.2	Cross Section showing the size of pit and location of pipe	As per drawing.	
2.3	Strip plan/ route plan showing the pipe chainage , width of ROW , Distance of proposed pipe from the edge of important milestone, intersections, cross drainage works .	Yes, attached	
2.4	Methodology for laying of pipe	yes	
2.4.1.	Open trenching method. Methodology of refilling of trench	Yes	
2.4.2	Horizontal Directional Drilling Method	NA	
2.4.3	Laying pipe through CD works and method of laying (whether to be hung outside parapet)	NA	
3	Draft License agreement signed by two witness	yes	
4	Draft	As per demand note	
4.1	Confirmation of BG has been obtained as NHAI guidelines.	BG Shall be submitted as per NHAI as per Demand Note	
5	Affidavit/ Undertaking from the applicant is enclosed?		
5.1	Not to damage to other utility, If damaged then to pay the losses either to NHAI or to	Yes	
5.2	Renewal of Bank Guarantee		
5.3	Confirming all standard condition of NHAI guideline	Yes	
5.4	Shifting of Pipe line as and when required by NHAI	Yes	
5.5	Shifting due to 6 laying / widening of NHAI	Yes	
5.6	Indemnity against all damages and Yes claims clause (xxiv)	Yes	


 Manager (Tech.)
 NHAI, PIU-Bhopal

**Laying of Underground Water Main cross the national Highway
Details Regarding Underground Pipe Laying**

5.7	Traffic movement during laying of Pipe to be managed by the applicant	Yes	
5.8	If any claim is raised by the concessionaries then the same has to be paid by the applicant	Yes	
5.9	Certificate for 6-lanning from the applicant In following format "We do undertake that I will relocate service road/ approach road/utilities my own cost at notwithstanding the permission granted within such laying or any other development"	Yes	
6	Power of Attorney in favor of authorized signatory	Attached	
7	Copy of DOT license	NA	
8	Certificate from the Project Director		
8.1	Certificate for confirming of all standard condition issued vide Ministry Circular I No. R W /NH-33044/17/2000-S&R dated 29.9.2000 and NHAI's guidelines issued vide I No. NHA1/OEC/2WV 01 11 dated 17.11.2000 and Ministry's Circular No. RW/NH3 3 044/2 7/2 000-S&R dated 21.3.2006. 18		To be enclosed
8.2	Certificate for 4-1 anning from PD in the Enclosed following format a) Where feasibility is certify that there will be no hindrance to proposed six-laying based on the feasibility'. report considering proposed structures at the said location.		To be enclosed
	b) In case feasibility report is not available "I do certify that sufficient RO " is available at site for accommodating proposed six-laying",		To be enclosed
9	The agrrement fee of Rs. I shall be charged		To be enclosed
10.	"The permitted Highway on which has hen granted as a right of way to		To be enclosed

Team Leader cum Senior Highway Engineer

Authority's Engineer

Lea Associates South Asia Pvt. Ltd.

Bhopal-Biaora Section of NH-33

General Manager

MPJNM, PIU

Bhopal

TEAM LEADER

L.N. INFRA PROJECT

SQC, MPJNM, PIU, Bhopal




Manager (Tech.)
NHAI, PIU-Bhopal

**Laying of Underground Water Main cross the national Highway
Details Regarding Underground Pipe Laying**

	the concessionaire under the concession agreement for up gradation of I section from km to km to Km..... for NH No on Build, Operate and Transfer Basis/ and therefore, the licensee shall honor the same.		
11	Who will supervise the work of laying of pipe line	Madhya Pradesh Jal Nigam Maryadit, Bhopal.	
12	who will ensure that the defects in road portion after laying of Pipeline are road corrected and if not corrected then action will be taken	Madhya Pradesh Jal Nigam Maryadit, Bhopal.	
13	Who will pay the claims For damages done/ distrupction in working of concessionaire if asked by the concessionaire ?	Madhya Pradesh Jal Nigam Maryadit, Bhopal.	
14	Certificate from PD that he will enter the proposed permission in the register of records of permissions in the prescribed road, Raisen Performa (copy enclosed issued vide Ministry Circular No. R W /NH/33044/17/2000/S&R dated 23.7.2003)	Followed to NHAI	
15	If any previous approval is accorded for laying of pipeline then Photocopy of register of records of permissions accorded as maintained by PO (as per Ministry Circular No. VNW33044/17 /2000/S&R dated 23.7.2003) as referred in para 13 above is enclosed or not.	Followed to NHAI	

CL3 /


 परियोजना निदेशक
 Project Director
 भारत सरकार परिक्रिया इकाई भोपाल
 NHAI PIU-Bhopal (M.P.)

MADHYA PRADESH JAL NIGAM MARYADIT

(A Govt. of Madhya Pradesh Undertaking)

OFFICE OF THE GENERAL MANAGER

Project Implementation Unit, Rajgarh

web : mpjalnigam.co.in, E-mail: mpjalnigamrgh@gmail.com

CIN. U41000MP2012SGC028798

No. 97 /PIU/MPJNM/2018

Rajgarh, Dated 26/07/2018

To,

Project Director,
PIU - NHAI,
Bhopal (M.P.)

Sub.:- Bankpura-Kushalpura Multi Village Rural Water Supply Scheme District Rajgarh (MP):- Permission to lay pipe line along/across NH-12 between Biaora and Narsinhgarh.

- Ref :-1. This office letter no. 384/PIU/102/MPJNM/2018 dated 05.04.2018
2. Your letter no. NHAI/RO-MP/Bhopal-Biaora/NH-12/PKG-II/US/2018/31609 dated 19.06.2018
3. Your letter no. NHAI/Bhopal-Biaora/NH-12/PKG-II/MPJNM/2018/11472 dated 30.06.2018

Dear sir,

with reference to the above referred letter, following are the point wise submission

for your queries:-

1. The strip plan/route showing water pipe line chain age, ROW, distance of proposal pipeline from edge of ROW is enclosed herewith.
2. Performance bank guarantee in favour of NHAI is under process and will be submitted at earliest.
3. Draft of agreement between NHAI and Madhya Pradesh Jal Nigam Maryadit, Bhopal is enclosed herewith.

Above are the compliance. Kindly approve our proposal for laying the pipeline along/across the NH-12 as per details given is proposal

Encl.:- As above.

कार्यालय पत्रि. आ.रा.रा. प.ई.-भोपाल
प्र.क्र./दि. 14/731/22/7/18
सम्बन्धित प्रबंधक (र)-11/11/11
सप प्रबंधक (र)-11/11/11

लेखपाल/JAO
सहस्य. 11/11/11

(Pankaj Kumar)
General Manager (PIU, Rajgarh)

Sub.: Permission for laying of water pipeline along and across from km 405+380 to km 422+670 on NH-12 and 4 nos. crossing at Ch. No. 406.28, 412.20, 415.520 & 420.220) by pushing method (Trench less method) at Bankpura-Kushalpura Multi Village Rural Water Supply Scheme – Reg.

DETAIL REGARDING UNDERGROUND LAYING OF WATER PIPELINE:

1. (i) Name of the Company asking for Permission : **Madhya Pradesh Jal Nigam Maryadit (MPJNM)**
(ii) Full address (Registered) Corporate Address : **Rajgarh (MP) -465661**
(iii) Details & Purpose for laying the Cable : **Laying of water pipeline at km.405+380 to km 422+670 on NH -12 AND 4 numbers of crossing at (Ch. No. 406.28, 412.20, 415.520 & 420.220).**
(iv) Any other details regarding laying
 - (a) Distance of proposed site from The centre of the road at the : **-**
 - (b) Whether it is possible to lay the proposed lines or not, reasons : **Along and across**
2. Detail regarding road alignment where UG is to be laid along the road
 - (i) Name of Road : **NH-12 (Bhopal-biaora Section)**
Category of road (to be ascertained) : **4-lane road**
 - (ii) Width of the road : **-**
 - (a) Formation width measured : **60m**
 - (b) Black top road carriage-way width : **-**
 - (c) Road boundary : **-**
 - Location of water pipe line laying along
3. Details to be supplied on lay out drawings. : **3 sets proposed route drawing are enclosed.**
4. **GEOGRAPHICS OF THE WATER PIPE LINE ROUTE**
 - (a) Dimension of the pipe line trench : **-**
 - (b) Dimension of Pipe/ MS Protection pipe. : **200 mm Dia to 350 mm Dia**
 - (c) Size of water pipe line : **NA**
 - (d) Right of way : **60 m**
5. (i) This is certify that on Govt. Road land shall be occupied by **Madhya Pradesh Jal Nigam Maryadit** except for the purpose of laying of road crossing.
(ii) This is to certify that the work shall be in accordable with the Govt. Rules and regulation in force time to time and binding to **Madhya Pradesh Jal Nigam Maryadit**.
(iii) This if certify that all required Cost and Fees as per rules and regulation of the Govt. will be deposited timely.

Date: /

Place: **Rajgarh**

Encl : Route Marked on Map


KARISHMA SAHU
JHP - BKP.

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS

FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS

Agreement to lay for water pipeline along and across from km 405.38 to km 422.670 on NH-12 (Bhopal-Biaora Section) by pushing method (Trench less method) at Bankpura-Kushalpura Multi under Village Rural Water Scheme of NH land.

This Agreement made this _____ day 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, and **Madhya Pradesh Jal Nigam Maryadit**, a company registered under the Companies Act, 1956 and having its Registered Office at "D" Wing, 2nd Floor, Vindhyachal Bhavan, Bhopal (MP)-462004 (hereinafter called the "Licensee") which expression shall unless excluded by repugnant to the context, include his successors/administrator assignees on the second part.

Methodology For Laying Along and Across NH

For Laying of pipeline along and across from km 405+380 to km 422+670 on NH-12 and 4 nos. crossing at Ch. No. 406.28, 412.20, 415.520 & 420.220) by pushing method (Trench less method) at Bankpura-Kushalpura Multi under Village Rural Water Scheme – Reg.

Excavation for Pipe Line Trenches

- The pipe line alignment is cleared of all bushes, shrubs, roots, grass, weeds and if required trees, coming in the alignment of pipe line in the trench width portion.
 - After the work site is cleared as above, pipe line alignment with required trench width is marked on the ground with apex points, curves etc, as shown on the drawings where the work is to be started.
 - Working survey of the pipeline alignment is carried out before start of the excavation work. The gradient and alignment is such that minimum horizontal and vertical bends is required.
 - All excavations is carried out by mechanical equipment / machinery , the work involved and time schedule permit manual excavation.
 - All buried pipelines is minimum 1 meter +/- 0.2 mtr below ground level to maintain proper cover & gradient. The trench width is constant throughout the trench depth, & provided with a clearance of about 0.30 m on either side of the pipe line.
-

Methodology for Lowering, Laying of Pipes

- Each pipe is thoroughly checked for any damages before laying.
- While installing the pipes in trenches, the bed of the trench is levelled and free from sharp edged stones. While laying in rocky areas suitable bed of sand or gravel is provided.
- Then pipe is to be laid and joined by overlapping joint which is provide for fluid tightness for the intended service conditions.
- Pipe embedment backfill is stone-free excavated material placed.

Methodology for NH Crossing

At first A pilot hole is horizontally drilled and continues under and across the road along a predetermined design path. Once the pilot hole has been completed, the borehole must be enlarged to a suitable diameter for the product pipeline.

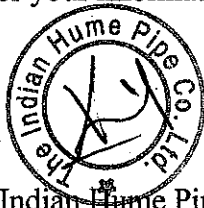
This is accomplished in the second stage of the **Horizontal Directional Drilling Process** by "prereaming" the horizontal boring to successively larger diameters.

Generally, the reamer is attached to the drill string on the opposite end of the borehole from the drill and pulled back into the pilot hole.


Water is pumped into the directionally drilled borehole to maintain the integrity of the hole and to flush out cuttings.

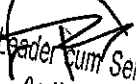
Once the directionally drilled hole is enlarged, the conduit can be pulled through it. The pipeline is prefabricated at the end of the bore opposite the drill rig. A reamer is attached to the drill string, and then connected to the product by a pulling head and swivel.

This is for your information only and might be change as per site condition.



For The Indian Hume Pipe Co. Ltd



TEAM LEADER
L.N. INFRA PROJECT
SQC,MPJNM,PIU,Bhopal


Team Leader cum Senior Highway Engineer
Authority's Engineer
Lea Associates South Asia Pvt. Ltd.
Bhopal-Biaora Section of NH-1

Annexure-II

(Enclosure to MORT&H letter No.RW/NH-33044/17/2000-S&R dated 29-09-2000)
Format for maintaining Records of Right of Way permission granted for laying E.H.T Cable
(to be maintained separately for every NH and State, every PWD Division or equivalent)

1. Name of State: Madhya Pradesh
2. Name of Agency (NHAI): National Highway Authority of India
3. National Highway No: NH-12

S. No	Location (chainage km)	Left or right side of NH (towards increasing chainage/direction)	Section and reach	Kind of service	Name of licensee contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MORT& standard norms	Remark
1	From km 405+380 to km 422+540 on NH-12	RHS:- CH. 405+380 TO CH KM 412+400 & LHS:- CH. 412+400 TO CH. 412+800 KM 	Bhopal-Biaora Section of NH-12	Along and across	MPJNM, Rajgarh					

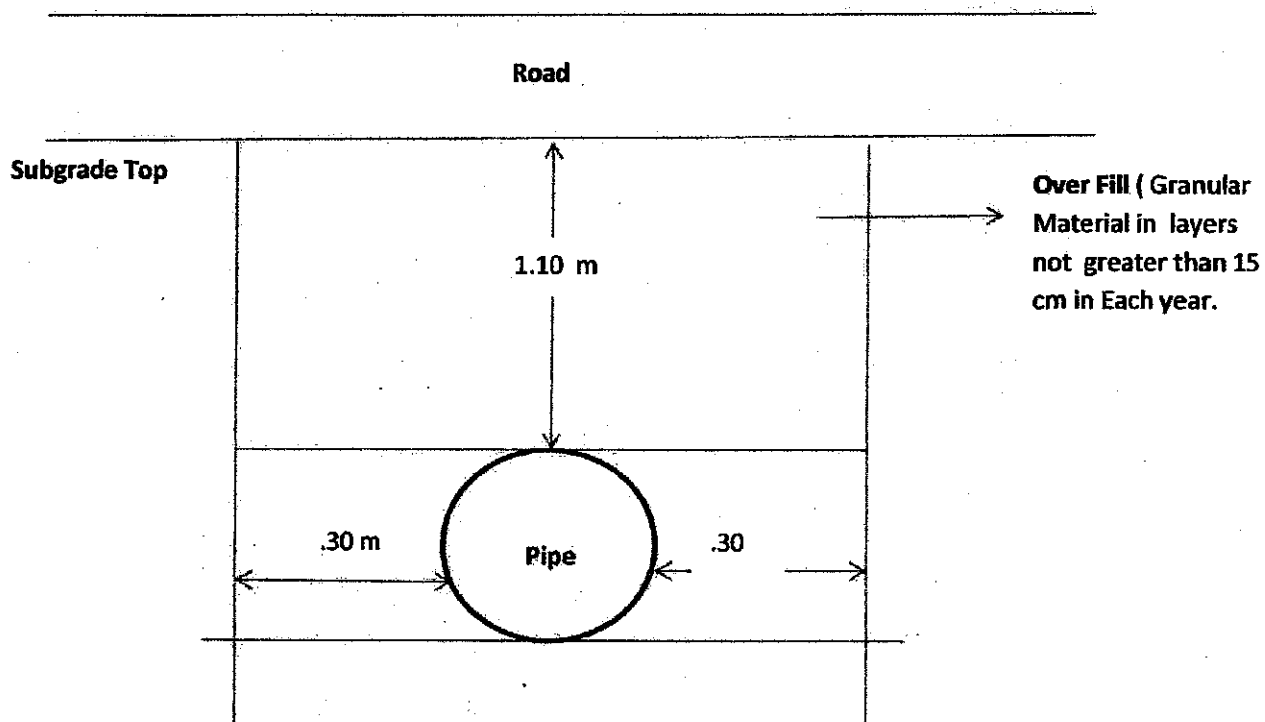


Project Name – Multi Village Rural Water Supply Scheme , Bioara Rajagrh.

Client – Madhya Pradesh Jal Nigam, Maryadit Bhopal

Contractor – The Indian Hume Pipe Co. Ltd.

Cross section details of pipe laying along the national highway 12



Cross Section details for crossing of pipe laying



Team Leader cum Senior Highway Engineer
Authority's Engineer
I ea Associates South Asia Pvt. Ltd.
National Highway Project

TEAM LEADER
L.N. INFRA PROJECT
S/C MPJNM, PIU Bhopal

Dy. Manager
M. P. Jal Nigam
PIU-Bhopal

MANAGER (PIU)
Madhya Pradesh Jal Nigam Maryadit
Bhopal (M.P.)

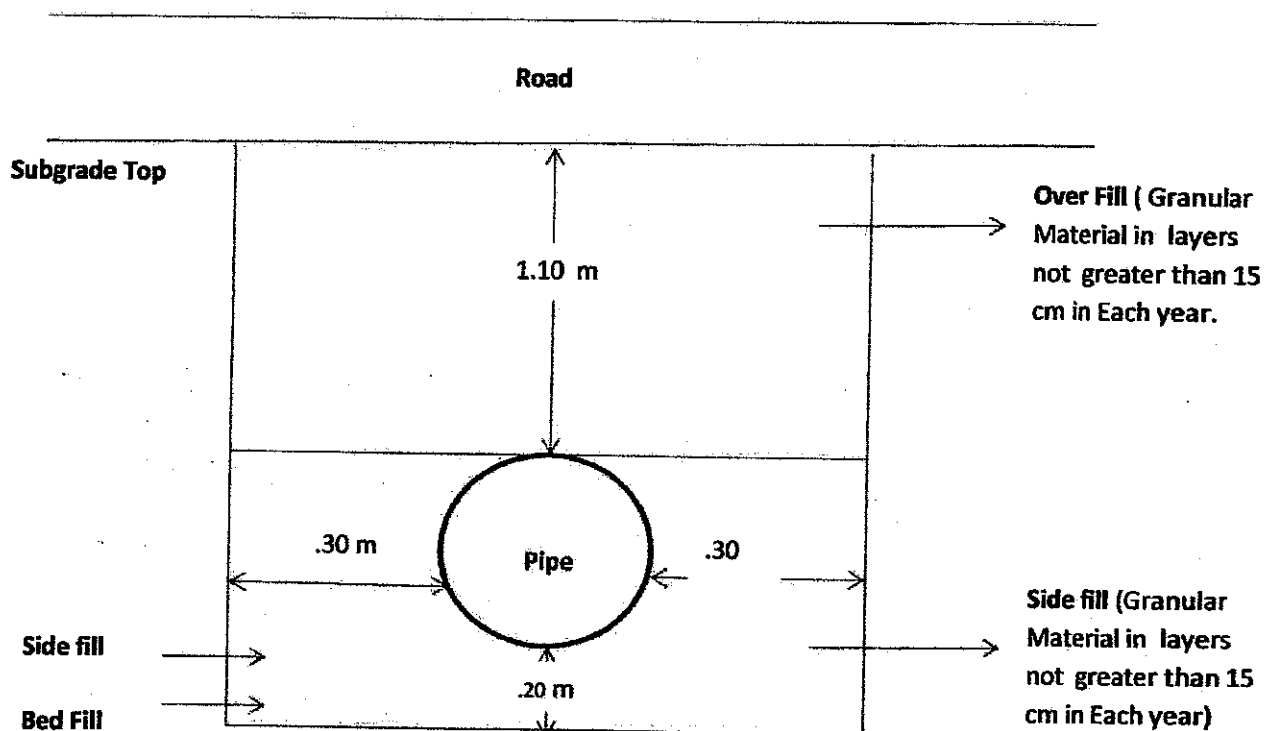
General Manager
MPJNM, PIU
Bhopal

Project Name – Multi Village Rural Water Supply Scheme , Bioara Rajagrh.

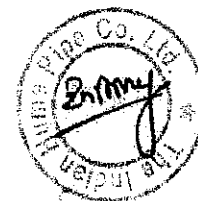
Client – Madhya Pradesh Jal Nigam, Maryadit Bhopal

Contractor – The Indian Hume Pipe Co. Ltd.

Cross section details of pipe crossing across NH 12



Cross Section details for crossing of pipe laying



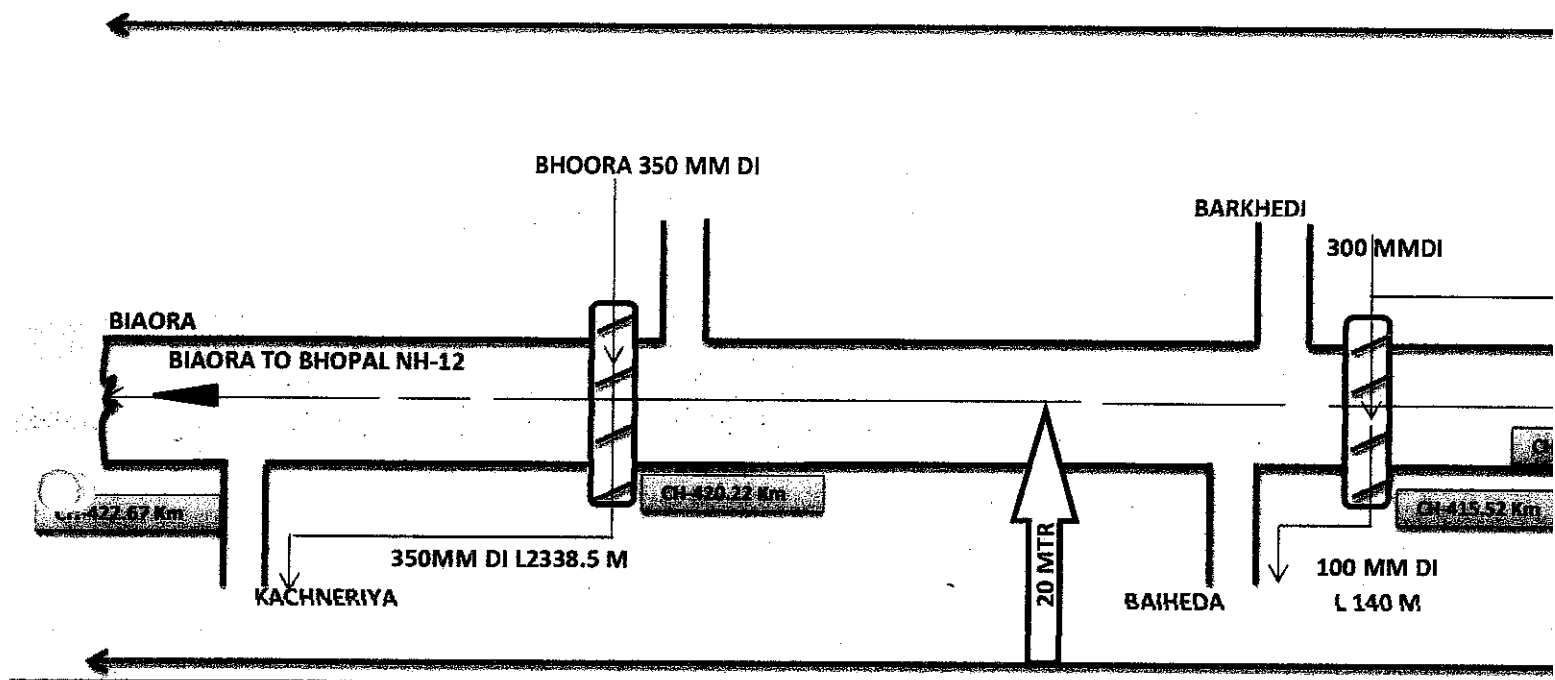
Team Leader cum Senior Highway Engineer
Authority's Engineer
Lea Associates South Asia Pvt. Ltd.
Bhopal-Biaora Section of NH 12

Dy. Manager
M. P. Jal Nigam
PIU-Bhopal

MANAGER (PIU)
Madhya Pradesh Jal Nigam Maryadit
Bhopal (M.P.)

General Manager
MPJNM, PIU
Bhopal

MULTI VILLAGE RURAL WATER SUPPLY SCHEME BIAORA DIST. RAJGARH NATIONAL



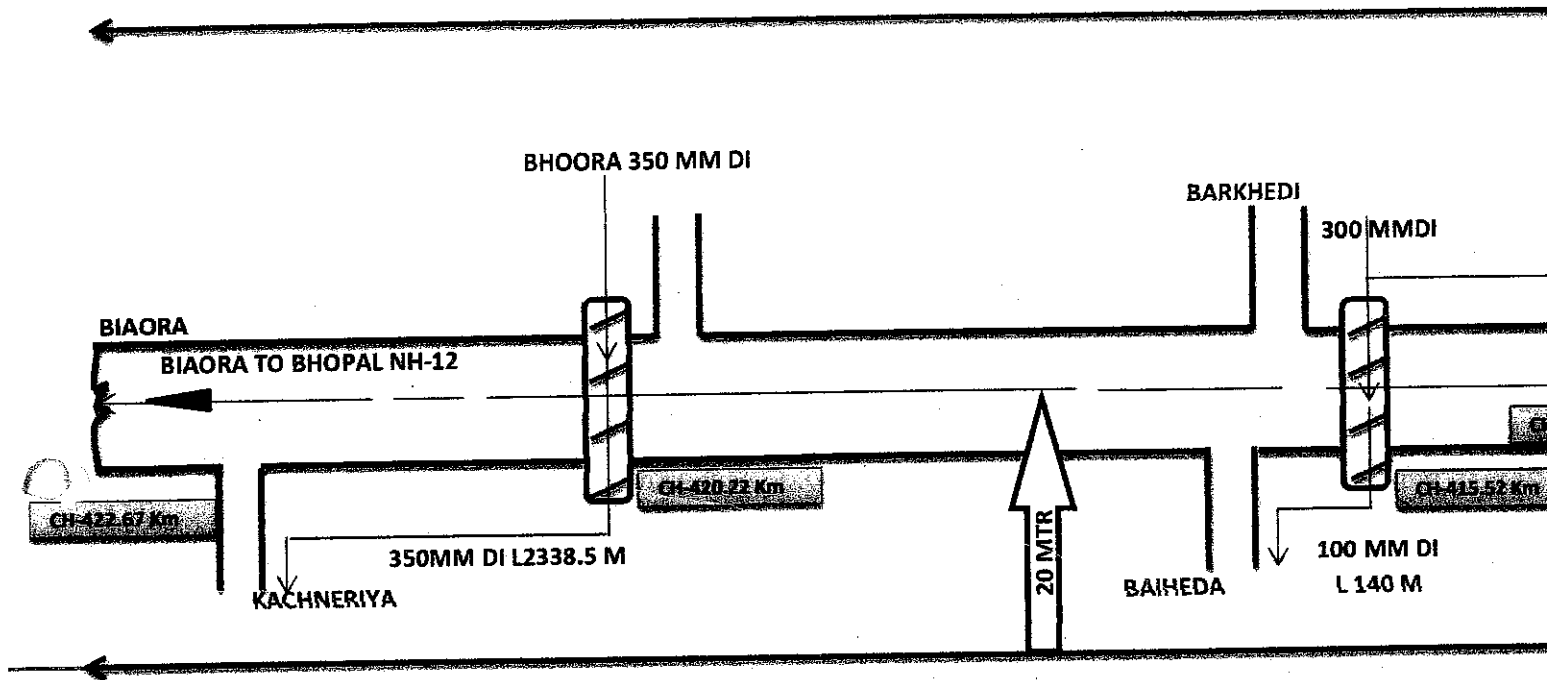
SUMMARY:-

1. CLEAR WATER GRAVITY MAIN ZONE-3 FROM AMLIYAHAT TO PAGARA DIA 100MM DI CROSSING AT CHAINAGE 405.38KM AND ALONG THE NH-12
2. CLEAR WATER GRAVITY MAIN Z-3 FROM PAGARA TO DHURLA DIA 150MM DI CROSSING AT CHAINAGE 406.28 KM TO CH- 409.78 KM.
3. CLEAR WATER GRAVITY MAIN Z-3 FROM DHURLA TO BARKHEDI DIA 100MM DI CROSSING FROM CH- 409.78 KM TO CH- 412.92 KM.
4. CLEAR WATER GRAVITY MAIN Z-3 FROM BARKHEDI TO BAIHEDA DIA 100MM ALONG THE NH-12 FROM CH- 412.40 KM TO CH- 412.80 KM.
5. CLEAR WATER GRAVITY MAIN Z-2 FROM BHOORA TO KACHNERIYA DIA 350MM DI CROSSING AT CHANAGE 420.22 KM AND ALONG THE NH-12 FROM

[Signature]
TEAM LEADER
L.N. INFRA PROJECT
SQC, MP, NM, PIU, Bhopal

[Signature]
Dy. Mai
M. P. Jal
PIU - RA

MULTI VILLAGE RURAL WATER SUPPLY SCHEME BIAORA DIST. RAJGARH NATIONAL P

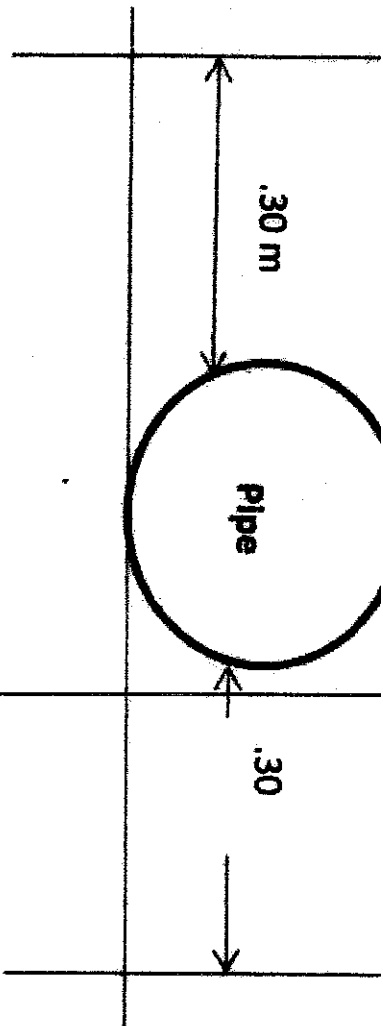


SUMMARY:-

1. CLEAR WATER GRAVITY MAIN ZONE-3 FROM AMLIYAHAT TO PAGARA DIA 100MM DI CROSSING AT CHAINAGE 405.38KM AND ALONG THE NH-12
2. CLEAR WATER GRAVITY MAIN Z-3 FROM PAGARA TO DHURLA DIA 150MM DI CROSSING AT CHAINAGE 406.28 KM TO CH- 409.78 KM.
3. CLEAR WATER GRAVITY MAIN Z-3 FROM DHURLA TO BARKHEDI DIA 100MM DI CROSSING FROM CH- 409.78 KM TO CH- 412.92 KM.
4. CLEAR WATER GRAVITY MAIN Z-3 FROM BARKHEDI TO BAIHEDA DIA 100MM ALONG THE NH-12 FROM CH- 412.40 KM TO CH- 412.80 KM.
5. CLEAR WATER GRAVITY MAIN Z-2 FROM BHOORA TO KACHNERIYA DIA 350MM DI CROSSING AT CHANAGE 420.22 KM AND ALONG THE NH-12 F

[Signature]
TEAM LEADER
L.N. INFRA PROJECT
BQC, MP, NM, PIU, Bhopal

[Signature]
Dy. M.
M. P. J.
PIU - R



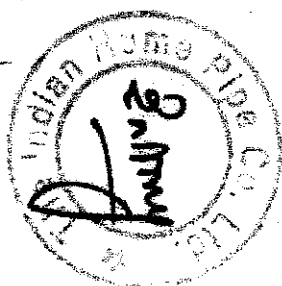
Cross Section details for crossing of pipe laying

[Signature]
 Team Leader
 Senior Highway Engineer
 Authority's Engineer
 Lea Associates South Asia Pvt. Ltd.
 Bhopal-Biaora Section of NH-12

[Signature]
 Dy. Manager
 M. P. Jal Nigam
 PIU-Bhopal

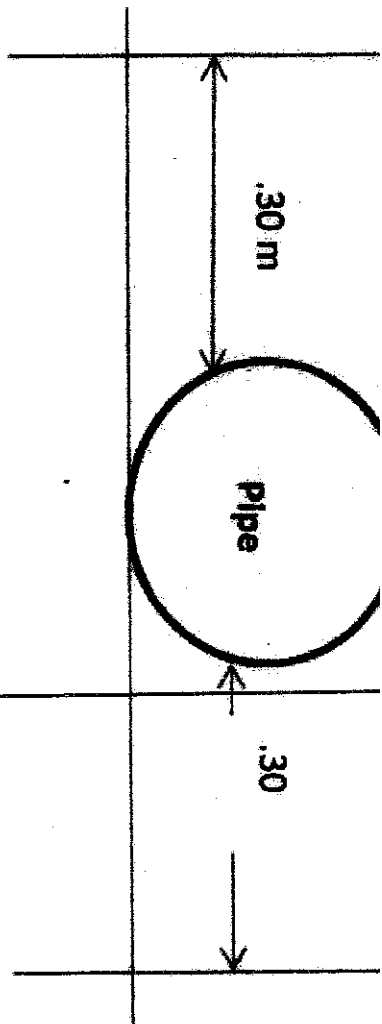
[Signature]
 MANAGER (PIU)
 Madhya Pradesh Jal Nigam
 Bhopal (M.P.)

TECHNICAL PROJECT
 L.M. JAL NIGAM, PIU, Bhopal

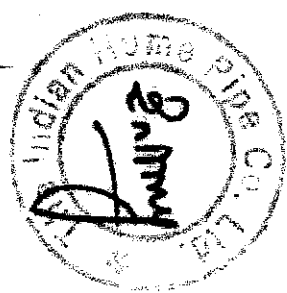


[Signature]
 Manager (Tech.)
 NHAI, PIU-Bhopal

[Signature]
 General Manager
 MPJNM, PIU
 Bhopal



Cross Section details for crossing of pipe laying



TECHNICAL LEADER
 L.N. INFRA PROJECT
 SOCIETY, PIU Bhopal

[Signature]
 Senior Highway Engineer
 Authority's Engineer
 Lea Associates South Asia Pvt. Ltd.
 Bhopal-Bilora Section of NH-12

[Signature]
 Manager (Tech.)
 NHAI, PIU-Bhopal

[Signature]
 Dy. Manager
 M. P. Jal Nigam
 PIU-Bhopal

[Signature]
 MANAGER (PIU)
 Madhya Pradesh Jal Nigam
 Bhopal (M.P.)

[Signature]
 General Manager
 MPJNM, PIU
 Bhopal

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1. CLEAR WATER GRAVITY MAIN ZONE 2 FROM BHOURA TO PACHHARTYA DIAMETERS 300MM DI 2-7 CROSSING AT CHAINAGE 420.220 KM AND ALONG THE NH-12 FROM CH- 420.220 KM TO CH- 422.640 KM AND 30M FROM THE CENTER OF THE ROAD.
2. CLEAR WATER GRAVITY MAIN ZONE 3 FROM BHOURA TO DHURLA CROSSING DIAMETERS 300MM ALONG NH 12 FROM CHAINAGE 415.920 TO CHAINAGE 419.820
3. CLEAR WATER GRAVITY MAIN ZONE 3 CROSSING FROM BAKHERI PIPE DIA 100 MM DI KT AT CHAINAGE 415.820
4. CLEAR WATER GRAVITY MAIN ZONE 3 CROSSING FOR DHURLA PIPE DIA 160 MM DI KT AT CHAINAGE 415.820
5. CLEAR WATER GRAVITY MAIN ZONE 3 CROSSING FOR PASARA PIPE DIA 100 MM DI KT AT CHAINAGE 412.020
6. CLEAR WATER GRAVITY MAIN ZONE 3 CROSSING FOR PASARA PIPE DIA 100 MM DI KT AT CHAINAGE 460.040

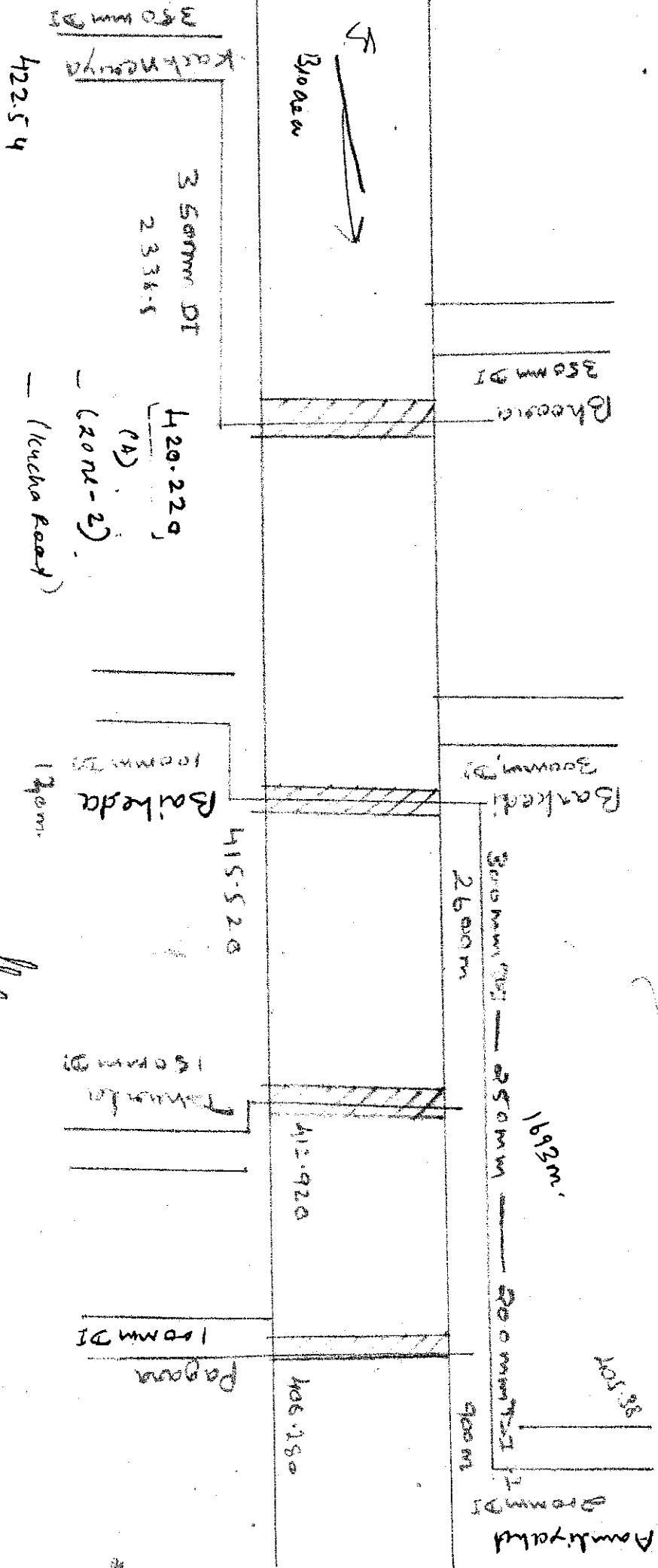
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MANAGER (FID)
Medhya Prasthiti Jai Nigam Maryada
Bhopal (M.P.)


TEAM LEAD
L.N. INFRA PROJECT
SSQC,MPJNM,PIU,Bhopal

**General Manager-
MPJNM, PIU
Bhopal**


Team Leader cum Senior Highway Engineer
Authority's Engineer
Lea Associates South Asia Pvt. Ltd.
Bhopal-Biaora Section of NH-12




 L.N. MEHRA
 Senior Highway Engineer
 Authority's Engineer
 Lea Associates South Asia Pvt. Ltd.
 Bhopal-Biaora Section of NH-12


 L.N. MEHRA
 PROJECT
 SOC, MPJNM, PIU, Bhopal



3.002

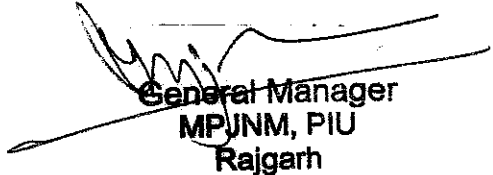
इस तालिका में ग्रामवार राष्ट्रीय राजमार्ग के किमी
अनुसार जानकारी भरें ।

Sl. No.	Name of Village	Length		Length in KM
		From	to	
1	Amliyahut to pagara	405.38	406.28	0.900
2	Pagara to Dhurla	406.28	409.78	2.470
3	Dhurla to Barkhedi	409.78	412.40	2.620
4	Barkhedi to Baiheda	412.40	412.80	0.400
5	Bhoora to kachneriya	420.22	422.67	2.450
6				
7				
8				
9				
10				
11				
	Total			8.84

1. The Demand Draft of **Rs.**, /- (in form of DD No. dated) for One time license fee in favour of RPAO, Ministry of Road Transport and Highway (MORT&H) payable at Raipur.

2. The Performance Bank Guarantee of **Rs.** lakh in favour of the Chairman, National Highway Authority, New Delhi.

All these amounts calculation referred at MoRT&H Circular no. RW/NH-33044/29/2015/S&R dated 22.11.2016. (Please see in MoRT&H website).


General Manager
MPJNM, PIU
Rajgarh



BANKPURA-KUSHALPURA MPJNM PROJECT JOINT INSPECTION REPORT

Date: 23.09.2019

Sub: Execution of Bankpura- Kushalpura Multi village Water Supply Scheme of 120 villages of Block Biaora, District Rajgarh. Regarding pipe laying across on NH 12 and joint report on verification of site with the chainage.

With reference to above subject and cited references, it is stated that we are doing the execution of Multi Village Rural Water Supply Scheme to provide safe drinking water to 125 village of Biaora block Dist. Rajgarh based on Bankpura Dam under Madhya Pradesh Jal Nigam (Maryadit)

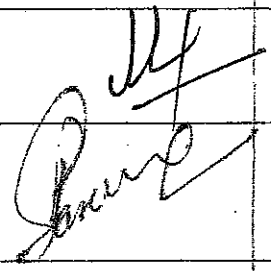
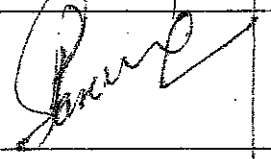
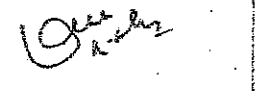
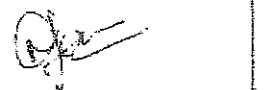
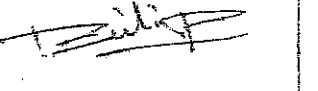
For above said work the laying of pipe line across the NH-12 Ch. (1) 407.380 km (2) Ch.411.060km (3) Ch. 413.660km (4) Ch. 418.320km to as per hydraulic designs and alignment. As per methodology crossing of pipe line will be done with the trenchless method.

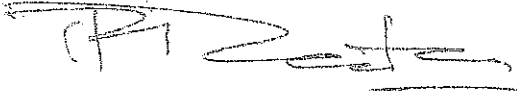
Hence the above mentioned chainge has been verified by the team of officials from NHA1 SQC RE, Executing agency of Road and Madhya Pradesh Jal Nigam Mayardit With MPJNM SQC RE. It has been fully verified and it falls in NH 12 area with proper chainge. The following list of officials who were present during joint site visit for verification of chainage.

PR...
TE (LASA)

BANKPURA-KUSHALPURA MPJNM PROJECT JOINT INSPECTION REPORT

dated - 23-09-19

Name of Officer	Designation	Signature Of the officer	Remarks
Vijay kumar	Resident Engineer (NHAI LASA TL Office Bhopal)		
Praveen Saxena	Manager (M.P. JAL Nigam Maryadit Rajgarh)		
R.S Shukla	Dy. Project Manager (CDS Construction Company)		
Nikhil Jain	Resident Engineer (MPJNM LN Malviya Rajgarh)		
Dilip Kumar Parashar	Site Engineer (The Indian hume pipe Co. LTD)		


TE (LASA)

LEGEND :

EXISTING PLAN :

- : EXIST. DBM
- : EXIST. CARRIAGEWAY
- : BUILDING
- : TEMPLE
- : BOUNDARY WALL
- : FENCING
- : HAND PUMP
- : TREE
- : ELECTRIC LINE
- : HT LINE

PROPOSED PLAN

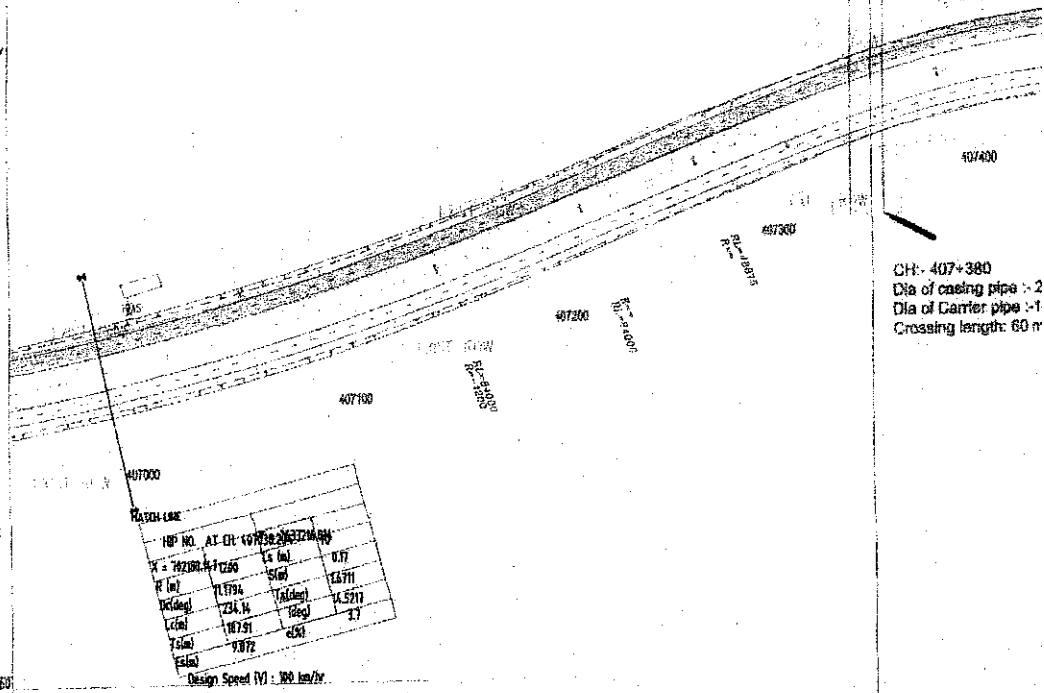
- PROW
- TOE LINE
- PAVED EDGE
- C/W EDGE
- LANE MARKING
- MEDIAN
- LANE MARKING
- C/W EDGE
- PAVED EDGE
- TOE LINE
- PROW
- BRIDGE
- CULVERT

PROPOSED PROFILE :

- PROPOSED ROAD LEVEL AT LEFT MEDIAN EDGE
- PROPOSED ROAD LEVEL AT RIGHT MEDIAN EDGE
- ORIGINAL GROUND LEVEL
- EXISTING ROAD LEFT INNER EDGE
- EXISTING ROAD RIGHT INNER EDGE
- LHS GROUND LEVEL @20M FROM PCL
- RHS GROUND LEVEL @20M FROM PCL
- SUPERELEVATION SCHEMATIC

LHS	PROPOSED ROAD LEVEL AT LEFT MEDIAN EDGE
	EXISTING INNER EDGE LEVEL (MSL)
RHS	LHS GROUND LEVEL @20M FROM PCL
	VERTICAL SCHEMATIC LEFT MEDIAN EDGE
RHS	ORIGINAL GROUND LEVEL
	PROPOSED ROAD LEVEL AT RIGHT MEDIAN EDGE
RHS	EXISTING INNER EDGE LEVEL (MSL)
	RHS GROUND LEVEL @20M FROM PCL
RHS	VERTICAL SCHEMATIC RIGHT MEDIAN EDGE
	HORIZONTAL SCHEMATIC
PAVEMENT	SUPERELEVATION SCHEMATIC
	CROSS SECTION DETAILS
CHAINAGE (M)	WIDENING/NEW CONSTRUCTION
	STRENGTHENING/RECONSTRUCTION

← BHOPAL



CH- 407+380
Dia of casing pipe = 2
Dia of Carrier pipe = 1
Crossing length: 60 m

REV.	DATE	DESCRIPTION	ENGR.	D/M	CLIENT	EPC CONTRACTOR	AUTHORITY ENGINEER	PROOF CONSULTANT	SAFETY CONSULTANT
RI	18-12-2018	INCORPORATED AS PER AE COMMENTS	DIVYAM SURESH		NATIONAL HIGHWAYS AUTHORITY OF INDIA	Centrodorstroy (India) Pvt. Ltd.	LEA ASSOCIATES SOUTH ASIA PVT. LTD.	SABZ INFRA SOLUTION PVT. LTD.	Khann Design

LEGEND :

EXISTING PLAN :

- EXIST. DBM
- EXIST. CARRIAGEWAY
- BUILDING
- TEMPLE
- BOUNDARY WALL
- FENCING
- HAND PUMP
- TREE
- ELECTRIC LINE
- HT LINE

PROPOSED PLAN

- PROW
- TOE LINE
- SR EDGE
- PAVEL EDGE
- C/W EDGE
- LANE MARKING
- MEDIAN
- LANE MARKING
- C/W EDGE
- PAVEL EDGE
- TOE LINE
- PROW
- PRO. ROW

BRIDGE

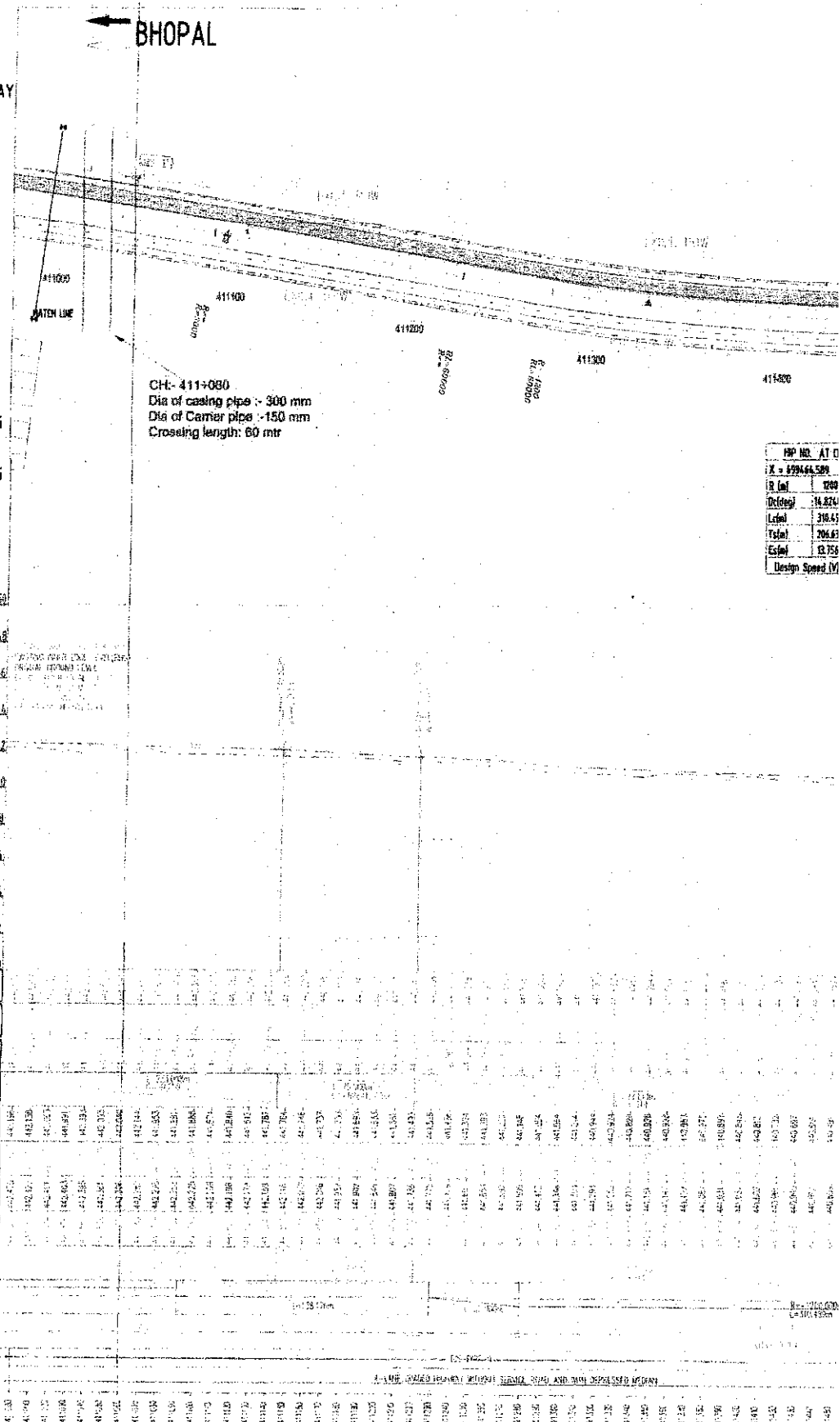
CULVERT

PROPOSED PROFILE :

- PROPOSED ROAD LEVEL AT LEFT MEDIAN EDGE
- PROPOSED ROAD LEVEL AT RIGHT MEDIAN EDGE
- ORIGINAL GROUND LEVEL
- EXISTING ROAD LEFT INNER EDGE
- EXISTING ROAD RIGHT INNER EDGE
- LHS GROUND LEVEL @20M FROM PCL
- RHS GROUND LEVEL @20M FROM PCL
- SUPERELEVATION SCHEMATIC

DATUM : 430

PROPOSED ROAD LEVEL AT LEFT MEDIAN EDGE	
EXISTING INNER EDGE LEVEL(LHS)	
LHS	
LHS GROUND LEVEL @20M FROM PCL	
VERTICAL SCHEMATIC LEFT MEDIAN EDGE	
ORIGINAL GROUND LEVEL	
PROPOSED ROAD LEVEL AT RIGHT MEDIAN EDGE	
EXISTING INNER EDGE LEVEL(RHS)	
RHS	
RHS GROUND LEVEL @20M FROM PCL	
VERTICAL SCHEMATIC RIGHT MEDIAN EDGE	
HORIZONTAL SCHEMATIC	
SUPERELEVATION SCHEMATIC	
PAVEMENT	CROSS SECTION DETAILS
CHINAAGE (%)	WARNING/NEW CONSTRUCTION
	STRENGTHENING/RECONSTRUCTION



PROJ. NO.	AT 0
Scale	1:1000
Drawn by	14.824
Checked by	318.47
Designed by	206.63
Estimated by	13.758
Design Speed (km/h)	

R1	10-12-2018	INCORPORATED AS PER AE COMMENTS	DIVYAN SURESH
REV.	DATE	DESCRIPTION	Engr. D/H

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA

MINISTRY OF ROAD TRANSPORT & HIGHWAYS, GOVERNMENT OF INDIA

EPC CONTRACTOR :

Centroadstroy (India) Pvt. Ltd.

AUTHORITY ENGINEER :

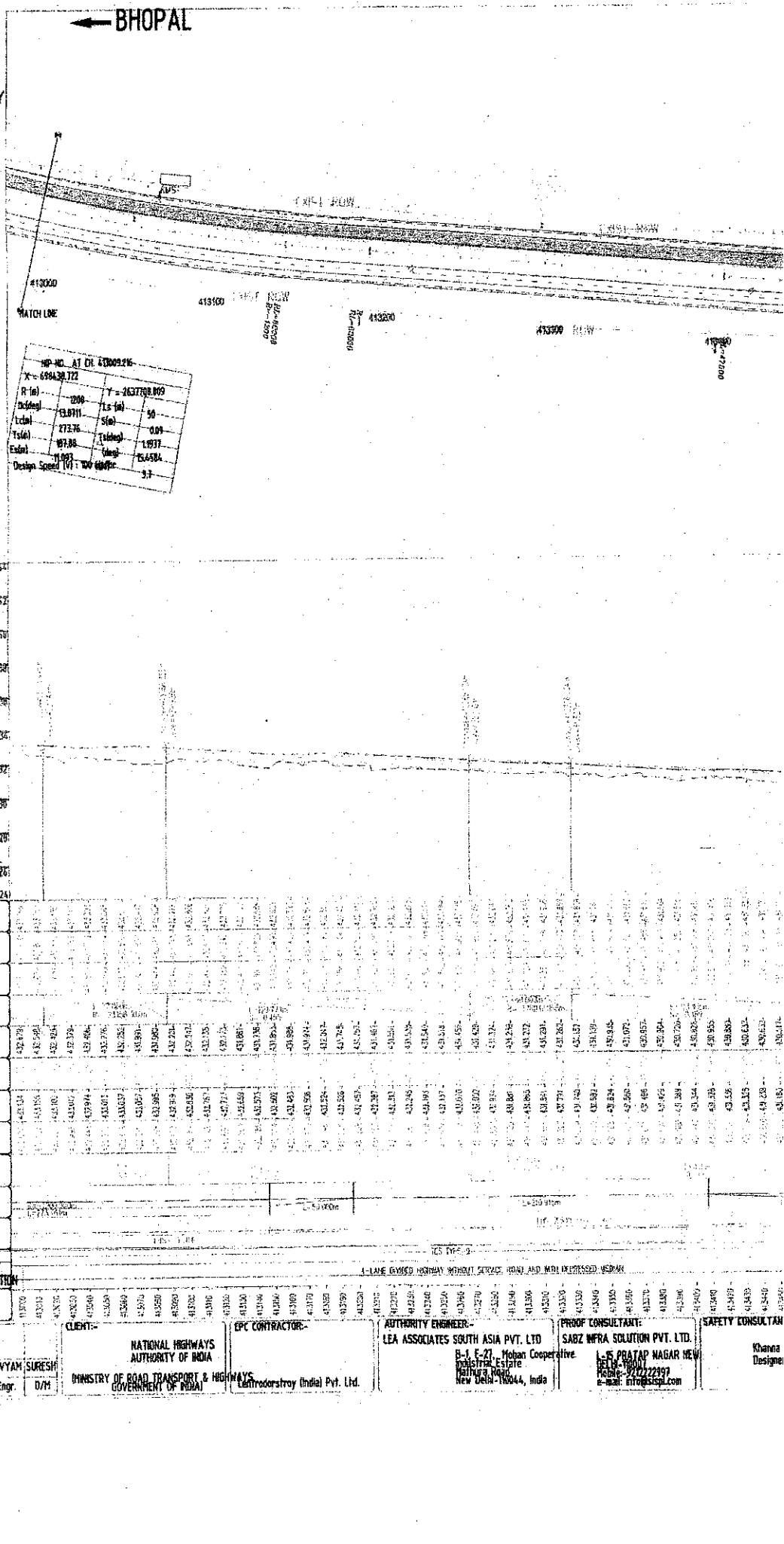
LEA ASSOCIATES SOUTH ASIA PVT. LTD.
B-1, C-12, Hagan Cooperative Industrial Estate
Hathnagar Road
New Delhi-110044, India

PROOF CONSULTANT :

SABZ INFRA SOLUTION PVT. LTD.
L-15 PRATAP NAGAR NEW DELHI-110045
Mobile-9712222997
e-mail- info@sabzpl.com

SAFETY CONSULTANT :

Khanna G Designers



LEGEND :

EXISTING PLAN :

- EXIST. DBM
- EXIST. CARRIAGEWAY
- BUILDING
- TEMPLE
- BOUNDARY WALL
- FENCING
- HAND PUMP
- TREE
- ELECTRIC LINE
- HT LINE

PROPOSED PLAN

- PROW
- TOE LINE
- PAVED EDGE
- C/W EDGE
- LANE MARKING
- MEDIAN
- LANE MARKING
- C/W EDGE
- PAVED EDGE
- TOE LINE
- PRO, ROW

BRIDGE

CULVERT

PROPOSED PROFILE :

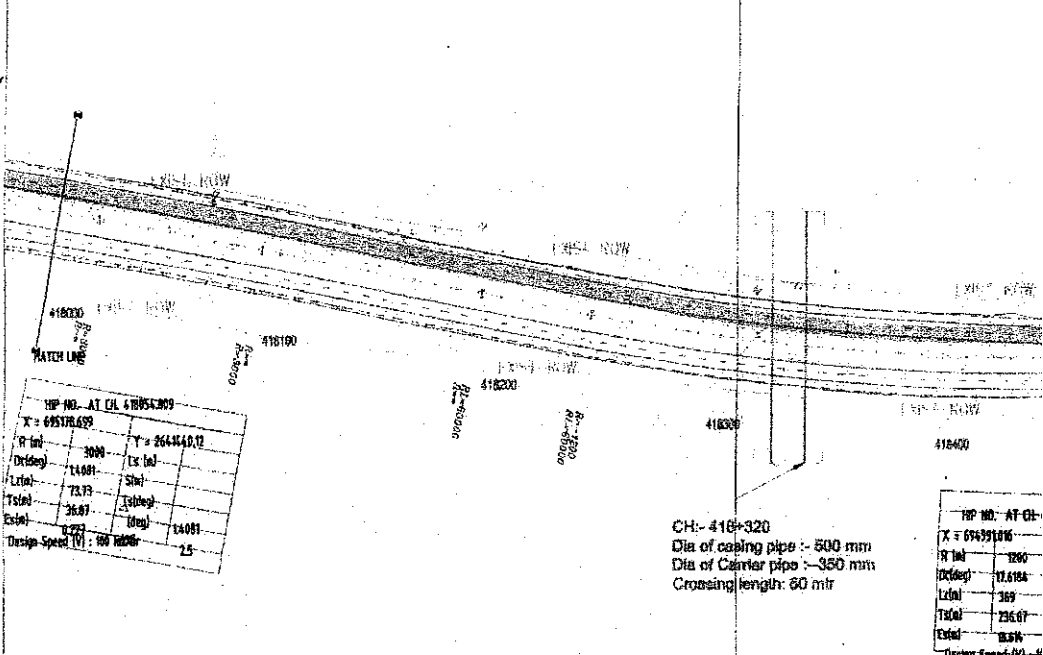
- PROPOSED ROAD LEVEL AT LEFT MEDIAN EDGE
- PROPOSED ROAD LEVEL AT RIGHT MEDIAN EDGE
- ORIGINAL GROUND LEVEL
- EXISTING ROAD LEFT INNER EDGE
- EXISTING ROAD RIGHT INNER EDGE
- LHS GROUND LEVEL @20M FROM PCL
- RHS GROUND LEVEL @20M FROM PCL

SUPERELEVATION SCHEMATIC

DATUM : 125

		DATE: 1/26	
	PROPOSED ROAD LEVEL AT LEFT MEDIAN EDGE		
	EXISTING INNER EDGE LEVEL (LHS)		
LHS	LHS GROUND LEVEL @20M FROM PCL		
	VERTICAL SCHEMATIC LEFT MEDIAN EDGE		
ORIGINAL GROUND LEVEL			
	PROPOSED ROAD LEVEL AT RIGHT MEDIAN EDGE		
	EXISTING INNER EDGE LEVEL (RHS)		
RHS	RHS GROUND LEVEL @20M FROM PCL		
	VERTICAL SCHEMATIC RIGHT MEDIAN EDGE		
HORIZONTAL SCHEMATIC			
SUPERELEVATION SCHEMATIC			
CROSS SECTION DETAILS			
PAVEMENT	WIDENING/NEW CONSTRUCTION STRENGTHENING/RECONSTRUCTION		
CHAINAGE (M)			

BHOPAL



CH:- 418-320
Dia of casing pipe :- 500 mm
Dia of Center pipe :- 350 mm
Crossing length: 60 mtr

HP NO. AT CH	418-320
X = 695784.29	Y = 264444.12
R (m)	3000
Dr (deg)	11.001
L (m)	73.73
T (m)	26.87
E (m)	0.001
Design Speed (V)	80 KPH
	2.5

REV.	DATE	DESCRIPTION	ENGR.	D/H	CLIENT	NATIONAL HIGHWAYS AUTHORITY OF INDIA MINISTRY OF ROAD TRANSPORT & HIGHWAYS GOVERNMENT OF INDIA	EPC CONTRACTOR	LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1 E-27, Mohan Cooperative Industrial Estate Gurgaon Road New Delhi-110044, India	AUTHORITY ENGINEER	LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1 E-27, Mohan Cooperative Industrial Estate Gurgaon Road New Delhi-110044, India	PROF CONSULTANT	SABZ INFRA SOLUTION PVT. LTD. L-15 PRATAP NAGAR NEW DELHI-110027 Phone: 9122227991 e-mail: info@sabz.com	SAFETY CONSULTANT	Khanna Goy Designers
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