



RW/BHP/MP/waterpipeline(169)/2024-25
Government of India
Ministry of Road Transport & Highways
(Chief Engineer - Regional Office, Bhopal)

2nd Floor, Nirman Bhawan, Arera Hills, Bhopal-462011
PH: 0755-2551329, 0755-2571467, Email ID: ro.bpl-morth@gov.in

Date: 21.11.2024

Invitation of Public Comments

Subject: Proposal for permission of laying water pipeline across NH-543 Nainpur-Balaghat (Gudru to Laweri section) 19 nos. road crossings in Lamta Micro Pressurised Irrigation Network (Hose system) in the State of Madhya Pradesh - reg.

CE(NH), MPPWD, Bhopal vide Memo no. NH-543/pipe line/WRD/2024/778 dated 12.11.2024 forwarded therewith a proposal in this office for permission of laying water pipeline across NH-543 Nainpur-Balaghat (Gudru to Laweri section) 19 nos. road crossings in Lamta Micro Pressurised Irrigation Network (Hose system) in the State of Madhya Pradesh.

2. 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.

3. In view of the above the comments of public are invited on captioned proposal and the same should reach to below mentioned address within 30 days beyond which no comments will be considered.

The Highways Administration
O/o RO Highways Administration
Ministry of Road Transport & Highways
IInd Floor, Nirman Bhawan, Bhopal-462011.
Email: ro.bpl-morth@gov.in

4. This issues with the approval of Highways Administration-cum Regional Officer, MoRT&H, Bhopal. (Computer no. – 245471).

Digitally signed by
Shubham Kaushal Ahirwar
Date: 21-11-2024 11:04:01
Assistant Executive Engineer
For RO, MoRT&H, Bhopal

Copy to:

1. The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.
2. The CE(NH), MPPWD, Bhopal-for information.
3. The EE, NH, MPPWD, Jabalpur-for information and requested to furnish the recommendation in view of Ministry's circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 along with verified fees viz. license fee etc. as per circular and their detailed

calculations



NATIONAL HIGHWAY ZONE M. P. PUBLIC WORK DEPARTMENT

कार्यालय मुख्य अभियंता,
OFFICE OF THE CHIEF ENGINEER
राष्ट्रीय राजमार्ग परिक्षेत्र, लोक निर्माण विभाग
"निर्माण भवन" प्लॉट नं. 27-28 अरेरा हिल्स, भोपाल म.प्र.
NIRMAN BHAWAN 2nd FLOOR, BHOPAL M.P.

Email : cepwdnhzonemp@gmail.com ,

Phone/ Fax -0755 -2551570

Memo no. NH-543/Pipe line/WRD/2024

778

Bhopal, Date 12 /11/2024

To,

The Chief Engineer-Regional officer
Govt. of India, Ministry of Road Transport & Highway
Nirman Bhawan, Bhopal

Sub : Proposal for Permission of laying Water Pipeline across to NH-543 Nainpur – Balaghat {Gudru to Laweri Section} 19 nos. Road crossing. Lamta Micro Pressurized Irrigation Network (Hose System)

Ref :- Executive Engineer, PWD NH Division Jabalpur letter no. 3644/T dated 08.11.2024.

Please refer to the memo cited under reference vide which Executive Engineer, PWD NH Division Jabalpur has submitted the Proposal for Permission of laying Water Pipeline across to NH-543 Nainpur – Balaghat {Gudru to Laweri Section} 19 nos. Road crossing. Lamta Micro Pressurized Irrigation Network (Hose System) for necessary permission.

Bank Guarantee of Rs. 64,800/- (BG no. 56800GI3D2407063 dated 17.10.2024 valid upto 17.10.2025 {Union Bank} is also deposited in favour of Executive Engineer, PWD NH Division Jabalpur and license / lease rent of Rs. 56,371/- deposited on NTRP Portal on dated 12.10.2024 (Bharatkosh. Gov. in by Ref. no. 1210240001691).

In view of above, it is requested that the necessary permission may be granted for subjected work.

Encl: As above (Proposal in Original)

Approved by Chief Engineer (NHs)

Endt. no. NH-543/Pipe line/WRD/2024

Copy is forwarded to,

1. The Executive Engineer, PWD NH Division Jabalpur for information.

EXECUTIVE ENGINEER
OFFICE OF THE CHIEF ENGINEER
NATIONAL HIGHWAY ZONE
M.P.P.W.D BHOPAL

Bhopal, Date 12 /11/2024

EXECUTIVE ENGINEER
OFFICE OF THE CHIEF ENGINEER
NATIONAL HIGHWAY ZONE
M.P.P.W.D BHOPAL



OFFICE OF THE EXECUTIVE ENGINEER

P.W.D. NATIONAL HIGHWAY DIVISION JABALPUR (M.P.)

eePWDnhjabalpur@gmail.com Ph.No.0761-2620990

Memo.N. 3644/T

Dated. 08/11/2024

To,

Chief Engineer,
P.W.D.N.H.Zone,
Nirman Bhawan Bhopal.

Sub: NOC for Laying of pipeline across to National Highway-543 at Lamta Pressurized Pipe Irrigation Network (Hose System) Project NH-543 Between Nainpur to Lamta, Water Resource Deptt. Balaghat (M.P.) at Different Locations.

Ref: 1) R.O. MORT&H Bhopal memo no. RW/BHP/MP/Water Pipe line (162)2023-24379 dt. 12.06.23 & MORT&H Circular:-NH-36094/01/2022-S&R(P&B) dated 17.04.2023
2) Water Resource Survey Division Balaghat (M.P.) memo no. 583/Works/Lamta Micro Irrigation/Part-4/23-24/Balaghat dated 28.03.2024 received in Dn. Jabalpur

With reference to above, the reply of observations raised in R.O. MORT&H Bhopal memo under reference is as under:

1. Methodology of execution and details of proposed laying is enclosed herewith duly verified by the undersigned.
2. Undertakings from application is enclosed herewith.
3. Calculation sheet of license fees and BG is enclosed herewith duly verified by the undersigned.
4. Agreement and undertakings from applicant have mentioned the no. of crossings with their chainages.
5. Certified that crossing of pipeline will not affect the ongoing widening to 2L+PS works sanctioned by Ministry in the above stretch.
6. It is confirmed that crossing is as per HDD.
7. License fee calculations are done as per latest circular dated 24.04.2023 amount of Rs.56371/- has been deposited in NTRP portal vide receipt no.1210240001691 dt. 12.10.2024
8. ROW is shown in attached drawings.
9. Copy of performance Bank guarantee NO. 56800GI3D2407063 dt. 17.10.24 for Rs. 64800.00 & Confirmation letter of performance Bank Guarantee has already enclosed.

- Encl:
1. Letter under reference with Drawing
 2. Original Agreement
 3. Copy of deposition of Licence fee/Lease rent
 4. Copy of performance Bank guarantee
 5. Confirmation letter of performance Bank guarantee

Endt.No.-----/T Dated.
Copy forwarded to the :

1. Executive Engineer, Water Resource Survey Division Balaghat (M.P.) with reference to his memo cited above for information.
2. Assistant Engineer NH-543, PWD NH DIVISION JABALPUR Jabalpur for information.

Executive Engineer
P.W.D.N.H. Division Jabalpur

Executive Engineer
P.W.D.N.H. Division Jabalpur

यूनियन बैंक Union Bank of India

भारत सरकार का बैंक A Government of India Undertaking



Branch: Anoop nagar Indore

Mail id:UBIN0556807@UNIONBANKOFINDIA.BANK

To,

Executive Engineer PWD
NH Division
Jabalpur
MP

This deed of Bank Guarantee executed by Union Bank of India, a Body Corporate, constituted under the Banking Companies (Acquisitions and Transfer of Undertakings) Act 1970 having its Central Office at #239, Vidhan Bhavan Marg, Nariman Point, Mumbai-400021, Maharashtra, India acting through its branch at Plot no 6, Fortuna Building Anoop Nagar, Indore Email-:ubin0556807@unionbankofindia.bank Contact No. 91375-56800- (Branch name & address) (herein after referred to as "the Bank" in favour of THE EXECUTIVE ENGINEER, PWD, N.H.DIVISION, JABALPUR (herein after referred to as "the beneficiary") For the amount not exceeding INR 64,800/- (INR Sixty four thousand eight hundred only) at the request of TRIBAL VENTURES PVT LTD (herein after referred to as "the contractor(s))

In Consideration of agreement for laying pipeline across Highways NH PWD in Nainpur to Balaghat road for a total length of 28.4km in different locations & different chainage between the Executive Engineer, PWD N.H. Division, Jabalpur(hereinafter called Principle) & TRIBAL VENTURES PVT LTD (hereinafter called Contractor) with contract no. GK 1905/VLS/Lanta Myco/23-24/Balaghat dated 17/09/2024

1 Our Liability under this Bank Guarantee shall not exceed Rs 64,800.00 (Rupees Sixty Four Thousand Eight Hundred Indian Rupeeonly)

2 This Bank Guarantee shall be valid upto 17/10/2025 (Date of Expiry of the Guarantee)

3 Further a claim period of 0 Days from the expiry date of the Bank Guarantee is available to make a demand under this Bank Guarantee. We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before 17/10/2025 (Date of Expiry of the guarantee PLUS the claim period if any) and we shall be relieved and discharged from all our liabilities and obligations under this Bank Guarantee irrespective of return of original Bank Guarantee.

Confirmation of the Bank Guarantee may be obtained from

: E - Confirmation Cell Centralized Credit Operations Wing Credit Compliance and Monitoring Dept, Union Bank of India Central Office - (Annexe) 5-9-11, Pattabhi Bhawan Salfabad, Hyderabad Tel No. 040-23252536 E-mail:ccc[at]unionbankofindia.bank

In the event of invocation, the details to be sent to the branch address with branch email id

UBIN0556807@unionbankofindia.bank marking a copy to our back office at inland@unionbankofindia.bank

This Bank guarantee contains of 4 pages.

Dated 17th October, 2024

Authorised signatory



कार्यालय कार्यपालन यंत्री

जल संसाधन सर्वेक्षण संभाग बालाघाट (म.प्र.)

(Telephone No. 07632-240738 Email Add. ce.wrsurveydn@gmail.com)

ज्ञा.क. 2136/व.ले.स/लामता माइको/24-25/बालाघाट
प्रति,

दिनांक 18/10/2024

✓ कार्यपालन यंत्री
लोक निर्माण विभाग रा.रा.
संभाग जबलपुर (म.प्र.)

विषय :- राष्ट्रीय राज्य मार्ग कमांक-543 नैनपुर बालाघाट रोड में लामता माइको प्रेशरार्ज्ड (होज सिस्टम) परियोजना हेतु 19 रोड कासिंग करने की अनुमति बाबद।

संदर्भ :- 1. आपका पत्र कमांक-3124/तक/दिनांक 05.09.2024
2. मेसर्स त्रिराज वेंचर्स प्रा.लि. इन्दौर का पत्र कमांक-टीवीपीएल /एक्स/
लामता-164/दिनांक 18.10.2024

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उपरोक्त विषयांतर्गत इस संभाग के अंतर्गत निर्माणाधीन परियोजना लामता माइको प्रेशरार्ज्ड पाईप इरिगेशन (होज सिस्टम) परियोजना में आ रही राष्ट्रीय राज्यमार्ग कमांक-543 नैनपुर बालाघाट मार्ग पर रोड कासिंग करने अनुमति हेतु आपके द्वारा संदर्भित पत्र में दिये गये निर्देशानुसार कार्यपालन यंत्री लोक निर्माण विभाग रा.रा. संभाग जबलपुर के पक्ष में बी.जी. कमांक-56800GI3D2407063 दिनांक 17.10.2024 रु. 64800.00 (रु. चौसठ हजार आठ सौ) तथा भारत कोष चालान संख्या कमांक-1210240001691 दिनांक 12.10.2024 रु. 56371.00 मात्र (रु. छप्पन हजार तीन सौ इक्कहत्तर) मय चैकलिस्ट, आंडरटेकिंग, नॉन जुडिशियल स्टाम्प रु. 100/- पर अनुबंध तैयार कर आवश्यक कार्यवाही हेतु आपकी ओर संलग्न कर सादर सम्प्रेषित है।

सहपत्र- 1. बी.जी. कमांक-56800GI3D2407063
दिनांक 17.10.2024 रु. 64800.00
2. भारत कोष चालान संख्या कमांक-
1210240001691 दि.12.10.2024
3. चैकलिस्ट, आंडरटेकिंग तथा नॉन
जुडिशियल स्टाम्प पर अनुबंध

(उदयसिंह परते)
कार्यपालन यंत्री
जल संसाधन सर्वेक्षण संभाग
बालाघाट (म.प्र.)

पृष्ठा.क. /कार्य/सराठी लाईनिंग/23-24/बालाघाट
प्रतिलिपि:-

दिनांक / /2024

1. अनुविभागीय अधिकारी जल संसाधन सर्वेक्षण उपसंभाग बालाघाट की ओर सूचनार्थ प्रेषित।
2. मेसर्स त्रिराज वेंचर्स प्रा.लि. इन्दौर की ओर उनके संदर्भित पत्र के तारतम्य में सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

सहपत्र- शून्य

(उदयसिंह परते)
कार्यपालन यंत्री
जल संसाधन सर्वेक्षण संभाग
बालाघाट (म.प्र.)

Serial No: AA00000110

Name of the Beneficiary – EXECUTIVE ENGINEER, PWD NH DIVISION, JABALPUR

We have issued the Bank Guarantee in your favour as per details mentioned hereunder:-

Bank Guarantee Number : 56800GI3D2407063
Applicant Name : TRIRAJ VENTURES PVT LTD
Bank Guarantee Amount : Rs 64,800/- (Rupees Sixty Four thousands Eight Hundred only)
Bank Guarantee Expiry Date : 17/10/2025
Bank Guarantee Claim Expiry Date : 17/10/2025

This cover page shall form integral part of the enclosed Bank Guarantee.

AUTHORIZED SIGNATORY

Issuing Branch Name: UNION BANK OF INDIA

Address: PLOT NO 6 Fortuna Building Anoop Nagar, Indore, MP 452018

IFSC Code: UBIN0556807

EMAIL ID: ubin0556807@unionbankofindia.bank

AUTHORIZED SIGNATORY

BG No: 56800GI3D2407063
Issue Date: 17/10/2024
Expiry Date: 17/10/2025
Claim Expiry Date: 17/10/2025



*For confirming the genuineness of the BG, you may choose to write to the following address:-

E - Confirmation Cell, Centralized Credit Operations Wing, Credit Compliance and Monitoring Dept., Central Office - (Annex),
5-9-11, Pattabhi Bhawan, Saifabad, Hyderabad, ecc@unionbankofindia.bank Phone No. 040-23252536.

(Toll Free No.) 1800 208 2244 / 1800 425 1515 / 1800 425 3555 | www.unionbankofindia.co.in

BG No: 56800GI3D2407063
BG Issue Date: 17/10/2024
BG Expiry Date: 17/10/2025
BG Claim Expiry Date: 17/10/2025

CAN

ED

BANK GUARANTEE

To.
Executive Engineer
PWD NH Division
Jabalpur
MP

This deed of Bank Guarantee executed by Union Bank of India, a Body Corporate, constituted under the Banking Companies (Acquisitions and Transfer of Undertakings) Act 1970 having its Central Office at #239, Vidhan Bhavan Marg, Nariman Point, Mumbai-400021, Maharashtra, India acting through its branch at Plot no 6, Fortuna Building Anoop Nagar, Indore Email-Id: ubin0556807@unionbankofindia.bank Contact No. 91375-56800-(Branch name & address) (herein after referred to as " the Bank" in favour of THE EXECUTIVE ENGINEER, PWD, N.H.DIVISION, JABALPUR (herein after referred to as " the beneficiary)
For the amount not exceeding INR 64,800/- (INR Sixty four thousand eight hundred only) at the request of TRIRAJ VENTURES PVT LTD (herein after referred to as "the contractor(s)

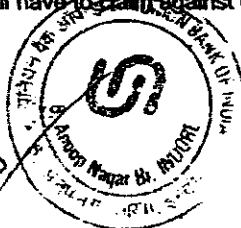
In Consideration of agreement for laying pipeline across Highways NH PWD in Nainpur to Balaghat road for a total length of 28.4km in different locations & different chainage between the Executive Engineer, PWD N.H. Division, Jabalpur(hereinafter called Principle) & TRIRAJ VENTURES PVT LTD (hereinafter called Contractor) with contract no. GK 1905/VLS/Lamta Myco/23-24/Balaghat dated 17/09/2024

We, Union Bank of India, Anoop Nagar (hereinafter referred to as " The Bank")

1. Hereby undertake to pay the principal amount not exceeding Rs. 64,800/- (Rupees Sixty Four thousand Eight hundred only) against any loss or damage caused to or suffered or would be suffered by the Principal, by Reasons of any breach of the terms & conditions contained in the said agreement.

2. We, Union Bank of India, do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a written demand from the principal stating that amount claimed is on account of making good and executed trench for laying of underground cable of proper filling and compaction, as to restore the land in the same conditions as it was before digging the trench, debris/loose earth produced due to execution of trenching. However, our liability under this guarantee shall be restricted Rs. 64,800/- (Rupees Sixty Four thousand Eight hundred only)

3. We undertake to pay the principle any money upto Rs. 64,800/- (Rupees Sixty Four thousand Eight hundred only) so demanded notwithstanding any dispute or dispute raised by the contractor(s) in any suit or proceeding pending before any court of tribunal relating there our liability under this present being absolute and unequivocal. The payment so made by us under this guarantee shall be valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payments.



BG No: 56800GI3D2407063
BG Issue Date: 17/10/2024
BG Expiry Date: 17/10/2025
BG Claim Expiry Date: 17/10/2025

4. We, Union Bank of India further agree that the guarantee herein contained shall remain in full force and effect during the period would be taken for the performance of said agreement and that it shall be continued to be enforceable till all the dues of the principal or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till the principle, certify that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee or until date 17-10-2025 (BG expiry Date) whichever is earlier, We shall be discharged from our liabilities under this guarantee thereafter.

5. The Guarantee will not be discharged due to the change in the constitution of the bank of the contractor.

6. We, Union Bank of India , lastly undertakes not to revoke this guarantee during its currency except with previous consent of the principle in writing.

7. This Bank Guarantee is valid until date 17-10-2025 (BG Expiry Date)
Notwithstanding anything contained herein:

- 1 Our Liability under this Bank Guarantee shall not exceed Rs 64,800.00 (Rupees Sixty Four Thousand Eight Hundred Indian Rupee only)
- 2 This Bank Guarantee shall be valid upto 17/10/2025 (Date of Expiry of the Guarantee)
- 3 Further a claim period of 0 Days from the expiry date of the Bank Guarantee is available to make a demand under this Bank Guarantee. We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before 17/10/2025 (Date of Expiry of the guarantee PLUS the claim period if any) and we shall be relieved and discharged from all our liabilities and obligations under this Bank Guarantee irrespective of return of original Bank Guarantee.
- 4 At the end of expiry of the validity period (including claim period), unless an action to enforce the claim under this guarantee is initiated before the Court or Tribunal on or before 12 months after the expiry of the validity period (including claim period), all your rights under this Bank guarantee shall stand extinguished

Confirmation of the Bank Guarantee may be obtained from:

E - Confirmation Cell
Centralized Credit Operations Wing
Credit Compliance and Monitoring Dept,
Union Bank of India
Central Office - (Annexe)
5-9-11, Pattabhi Bhawan
Saifabad, Hyderabad
Tel No. 040-23252536
E-mail: ecc(at)unionbankofindia.bank

In the event of invocation, the details to be sent to the branch address with branch email id UBIN0556807@unionbankofindia.bank marking a copy to our back office at inlandbg@unionbankofindia.bank

Dated 17th October, 2024

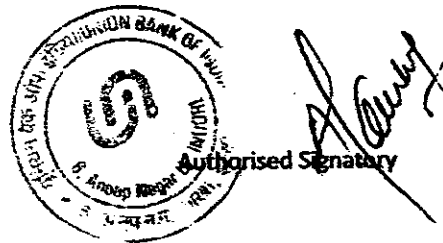
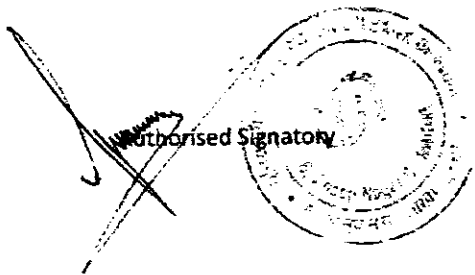


BG No: 56800GI3D2407063

BG Issue Date: 17/10/2024

BG Expiry Date: 17/10/2025

BG Claim Expiry Date: 17/10/2025





bharatkosh.gov.in

Government of India Receipt Portal

RECEIPT

Transaction Ref.No. 1210240001691

Dated: Oct 12 2024 10:19AM

Received from M/S. TRIRAJ VENTURES PVT LTD with Transaction
Ref.No. 1210240001691

Dated Oct 12 2024 10:19AM the sum of INR 56371 (Fifty-Six Thousand Three
Hundred Seventy-One Only) through Internet based Online payment in the
account of

Processing fee for permission to access to National Highways, , LICENCE FEE FOR
ROW CLEARANCE.

Disclaimer:- This is a system generated electronic receipt, hence no physical signature
is required for the purpose of authentication

Printed On: 12-10-2024 10:22:09

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)



कार्यालय : कार्यपालन यंत्री, लोक निर्माण विभाग
राष्ट्रीय राजमार्ग संभाग, जबलपुर

ज्ञा.कं. 3124 / तक.

दिनांक 05/09/2024

प्रति

कार्यपालन यंत्री

जल संसाधन सर्वेक्षण संभाग बालाघाट (म.प्र.)

E-mail:-ee.wrsurveydn@gmail.com , Tel. No.:07632-240738)

विषय:- लामटा माइको प्रेशराइज्ड पाइप इरिगेशन नेटवर्क (होज सिस्टम) कार्य हेतु रा.रा. कं. 542 रोड कासिंग की अनुमति प्रदान किये जाने के सम्बंध में।

संदर्भ:- आपका पत्र क्रमांक 583/कार्य/लामटा माइको इरिगेशन/पार्ट-4/23-21/बालाघाट दिनांक 28.03.2024 रा.रा. संभाग जबलपुर में दिनांक 06.08.2024 को प्राप्त

(Phone No. 7987594781)

MORT&H Circular:-NH-36094/01/2022-S&R(P&B) dated 17.04.2023

संदर्भित पत्र के तारतम्य में लेख है कि आपकी संस्था द्वारा उपरोक्त मार्ग में भूमिगत पाइप लाइन बिछाने की अनुमति चाही है। एम.ओ.आर.टी. एंड एच. के पत्र क्रमांक NH-36094/01/2022-S&R(P&B) dated 17.04.2023 की कंडिका 5.2 के अनुसार रा.रा. की भूमि का उपयोग करने हेतु लाइसेंस फीस/लीज रेंट तथा कंडिका 6 के अनुसार निर्धारित दर से परफारमेंस बैंक गारंटी अग्रिम जमा करने का कष्ट करें।

क्रमांक	विवरण	राशि
1	लाइसेंस फीस/लीज रेंट (उक्त कि.मी. हेतु) 5 वर्षों के लिए (Through On-Line by NTRP)	56371.00
2	परफारमेंस बैंक गारंटी (In favour of Executive Engineer, PWD N.H. Division, Jabalpur)	64500.00

सहपत्र:- 2

पू.कं. 3125 / तक.

प्रतिलिपि:- जिलाध्यक्ष, बालाघाट जिला बालाघाट की ओर सूचनार्थ सम्प्रेषित।

दिनांक 05/09/2024

कार्यपालन यंत्री
लोक निर्माण विभाग रा.रा.
संभाग जबलपुर

कार्यपालन यंत्री
लोक निर्माण विभाग रा.रा.
संभाग जबलपुर

Received
B. K. Singh

Calculation of License Fees

MORT&H Circular:-NH-36094/01/2022-S&R(P&B) dated 17.04.2023

Diameter (mm) and Area, Outer Diameter / Width of the Connected Utility line X Length

Width of the connected utility line X As per list given below (17 Nos. (18) underground method)

Subject: MOC for laying of pipeline across to National Highway 543 at Lanta Pressurized Pipe Irrigation Network (Hose System) Project NH-543 Between Nainpur to Lanta, Water Resource Deptt. Balaghat (M.P.) at Different Locations as per list given.

Ref: Water Resource Survey Division Balaghat (M.P.) memo no. 583/Works/Lanta Micro Irrigation/line-4733-24/Balaghat dated 28.03.2024 received in Dn. Jabalpur on 06.06.2024 (email: wvsurveying@gmail.com, Tel No: 07632-240738)

Calculation of Utilized Land Area (Village wise)

Calculation of Utilized Land Area (Village-wise)															Calculation of Utilized NH Land Area X Prevailing Circle Rate of Land per unit area	
Sl. No.	Name of Village	Crossing From	Crossing To	Latitude	Longitude	Challage	Inner diameter	Width/Outer Dia. (m)	Trench Width (Metres)	Approx. Prop. Length/ROW (Metres)	Utilized Net Land Area (Hect.)	Agriculture Land Plot Area (Rate per Hect.)	Area (Sq.m)	Prevailing circle rate of land per unit area (Rs./ Sq.m)	Utilized NH Land Area X Prevailing Circle Rate of Land per unit area x 1.5%	
A																
15/01/17	Crossings (Road Challage)															
15/01/17	Gulwari	HDPE 280 mm		22° 16' 02" N	80° 07' 16" E	Km 20.5	0.280	0.400	0.700	18	7.200	41080	10000	43.49	8.22	
15/01/17	Channapeta	HDPE 225 mm		22° 14' 20" N	80° 07' 26" E	Km 23.9	0.225	0.350	0.650	18	6.300	37000	10000	37.20	6.53	
15/01/17	Channapeta	HDPE 225 mm		22° 14' 00" N	80° 07' 48" E	Km 24.9 Near Pankaj Di & Kirana store	0.225	0.350	0.650	18	6.300	37000	10000	37.20	6.53	
15/01/17	Channapeta	HDPE 300 mm		22° 13' 44" N	80° 08' 07" E	Km 25.5	0.300	1.100	1.400	18	19.800	357800	10000	35.28	13.44	
15/01/17	Mau	HDPE 160 mm		22° 13' 16" N	80° 08' 00" E	Km 26.5	0.160	0.300	0.600	18	5.400	49850	10000	44.89	7.27	
15/01/17	Hirbatola	HDPE 160 mm		22° 12' 44" N	80° 08' 02" E	Km 27.5 Near Atul Sonwane store	0.160	0.300	0.600	18	5.400	50100	10000	50.16	8.13	
15/01/17	Hirbatola	HDPE 225 mm		22° 12' 44" N	80° 08' 00" E	Km 28.1	0.225	0.350	0.650	18	6.300	50100	10000	50.16	8.80	
15/01/17	Mahakapeta	HDPE 180 mm		22° 11' 55" N	80° 07' 48" E	Km 29.2 Near Highway Dhaba	0.180	0.300	0.600	18	5.400	415483	10000	41.55	6.73	
15/01/17	Mohagaoli	HDPE 110 mm		22° 07' 22" N	80° 07' 44" E	Km 38.1	0.110	0.250	0.550	18	4.500	377210	10000	37.72	5.60	
15/01/17	Airi	HDPE 125 mm		22° 07' 27" N	80° 07' 27" E	Km 39.5	0.125	0.250	0.550	18	4.500	246400	10000	24.64	3.66	
15/01/17	Airi	HDPE 110 mm		22° 07' 47" N	80° 07' 17" E	Km 35.0	0.8	1.100	1.400	18	19.800	25700	10000	24.64	9.31	
15/01/17	Airi	HDPE 110 mm		22° 06' 34" N	80° 07' 15" E	Km 39.9	0.11	0.250	0.550	18	4.500	246400	10000	24.64	3.66	
15/01/17	Channapeta	HDPE 125 mm		22° 05' 47" N	80° 07' 12" E	Km 41.4	0.125	0.250	0.550	18	4.500	377210	10000	37.72	5.60	
15/01/17	Channapeta	HDPE 125 mm		22° 04' 51" N	80° 06' 56" E	Km 41.3	0.175	0.250	0.550	18	4.500	309600	10000	30.96	4.60	
15/01/17	Channapeta	HDPE 180 mm		22° 04' 29" N	80° 07' 19" E	Km 44.2	0.18	0.300	0.600	18	5.400	264800	10000	26.48	4.29	
15/01/17	Channapeta	HDPE 400 mm		22° 03' 56" N	80° 07' 35" E	Km 45.5	0.4	0.600	0.900	18	10.800	167000	10000	26.20	6.37	
15/01/17	Channapeta	HDPE 110 mm		22° 03' 46" N	80° 07' 44" E	Km 46	0.11	0.250	0.550	18	4.500	267000	10000	26.20	3.89	
15/01/17	Channapeta	HDPE 225 mm		22° 03' 35" N	80° 06' 07" E	Km 48.5	0.225	0.350	0.650	18	6.300	762000	10000	26.20	4.60	
15/01/17	Channapeta	HDPE 175 mm		22° 02' 14" N	80° 06' 05" E	Km 48.9	0.125	0.250	0.550	18	4.500	403975	10000	40.40	6.00	
NOC for Laying of pipeline across to National Highway-543 at Lantia Pressurized Pipe Irrigation Network (Hose System) Project NH-543 Between Nalpur to Lantia, Water Resource Deptt. Balaghat (M.P.) at Different locations as per list above.																
15/01/17	Channapeta									342.000	135.900	238.500			123.120	
															8.000	

Calculation of Performance Bank Guarantee for one year
Ref:- MORT&H No. NH-36094/01/2022-S&R(P&B) dated 17.04.2023 (Utility Services)

	Utility services such as pipes etc. (rate in per m)				50	
	<= 300 mm dia /width				100	
	>300 mm dia/width but <=1000 mm				250	
	>1000 mm				500	
	Utility services such as towers etc (rate in Rs. per sqm)				100	
Subject:-	NOC for Laying of pipeline across to National Highway-543 at Lamta Pressurized Pipe Irrigation Network (Hose System) Project NH-543 Between Nainpur to Lamta, Water Resource Deptt. Balaghat (M.P.) at Different Locations as per list given:-					
Ref.:-	Water Resource Survey Division Balaghat (M.P.) memo no. 583/Works/Lamta Micro Irrigation/Part-4/23 24/Balaghat dated 28.03.2024 received in Dn. Jabalpur on 06.08.2024 (email:wrsurveydn@gmail.com, Tel					

Distance & Performance Calculation

S.No.	Village	Width/Outer Dia (m)	Trench Width	Approx. Prop. Length/Width/ Area (Metres/per sqm)	Rate	Amount
1518/173	Gudroo	0.400	0.700	18.00	250	4500.00
1534/175	Chanewada	0.350	0.650	18.00	250	4500.00
1534/175	Chanewada	0.350	0.650	18.00	250	4500.00
1530/174	Pachpedhi	1.100	1.400	18.00	500	9000.00
1538/175	Mau	0.300	0.600	18.00	100	1800.00
1545/176	Hirbatola	0.300	0.600	18.00	100	1800.00
1545/176	Hirbatola	0.350	0.650	18.00	250	4500.00
1542/175	Mahakepata	0.350	0.650	18.00	250	4500.00
1563/178	Motegaon	0.350	0.650	18.00	100	1800.00
1570/178	Atri	0.250	0.550	18.00	100	1800.00
1570/178	Atri	1.100	1.400	18.00	500	9000.00
1570/178	Atri	0.250	0.550	18.00	100	1800.00
1563/178	Motegaon	0.250	0.550	18.00	100	1800.00
1577/179	Dongarhodi	0.250	0.550	18.00	100	1800.00
1575/179	Pandewada	0.300	0.600	18.00	100	1800.00
1582/180	Mohgaon	0.600	0.900	18.00	250	4500.00
1582/180	Mohgaon	0.250	0.550	18.00	100	1800.00
1581/180	Newargaon	0.350	0.650	18.00	250	4500.00
1583/180	Laweri	0.250	0.550	18.00	100	1800.00
	NOC for Laying of pipeline across to National Highway-543 at Lamta Pressurized Pipe Irrigation Network (Hose System) Project NH-543 Between Nainpur to Lamta, Water Resource Deptt. Balaghat (M.P.) at Different Locations as per list given:-					64800.00
	Performance Bank Guarantee for Above Length In favour of Executive Engineer, PWD NH Division Jabalpur				Rs.	64800.00

(Signature)
Sub Engineer
5/9/24

(Signature)
Assistant Engineer
NH-543, Mandla, P.W.D. N.H. Division
Jabalpur

(Signature)
Executive Engineer
P.W.D. N.H. Division
Jabalpur

क्रमांक	गाईडलाइन स्थान	मूखंड (वर्गमीटर)			आवासीय मवन (वर्गमीटर)				व्यवसायिक मवन (वर्गमीटर)			बहुमंजिल मवन (वर्गमीटर)		कृषि मृषि (हेक्टेयर)		कृषि मूखंड (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी	आर.बी.सी	टिन शेड	कच्चा कनेल	दुकान	कार्यालय	गोडाउन	आवासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00003

1515	1. देवसरी	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	7,20,820	4,24,580	460	460
1516	3. तीनगढी	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,15,200	3,62,400	400	400
1517	9. सकरी	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	6,52,280	3,83,640	460	460

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00004

1518	2. गुडरु	480	480	480	6,480	4,480	3,280	2,880	9,600	8,800	8,800	0	0	7,38,240	4,34,880	480	480
1519	4. टेगा	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,20,800	3,65,600	400	400

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00005

1520	12. मुकडा	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,08,800	2,99,200	400	400
1521	18. ठाकुरटोला	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,35,200	3,14,800	400	400
1522	20. घर्षारिया	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,25,600	3,68,000	400	400

निर्माण वर्ष : 2021-2025

क्रमांक	गाईडलाइन स्थान	मुखंड (वर्गमीटर)			आवासीय मवन (वर्गमीटर)				व्यवसायिक मवन (वर्गमीटर)			बहुमंजिला मवन (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि मुखंड (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी.	आर.बी.सी.	टिन शेड	कच्चा कबेल	दुकान	कार्यालय	गोड्डन	प्रावासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00006

1523	11. बकवाडा	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,08,800	2,99,200	400	400
1524	16. मोहगांव माल	548	548	548	6,548	4,548	3,348	2,948	9,748	8,948	8,948	0	0	8,56,600	5,03,430	548	548
1525	17. बरखो	597	597	597	6,597	4,597	3,397	2,997	9,797	8,997	8,997	0	0	7,99,053	4,69,996	597	597
1526	19. मोहगांव रैयत	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,24,800	3,67,200	400	400

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00007

1527	13. बट्ठा	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,13,200	3,60,400	400	400
1528	14. बरखेडा	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	5,80,520	3,41,320	460	460
1529	15. बरगांव	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,97,200	2,92,800	400	400

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00008

1530	21. पचपेढी	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,00,000	3,52,800	400	400
1531	22. खैरगांव	700	700	700	6,700	4,700	3,500	3,100	9,600	8,800	8,800	0	0	9,81,400	5,76,800	700	700
1532	23. कुमहर	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,05,600	3,56,000	400	400

S.No.	Item	As per Original Sanction				As per Additional Work of Sh. Jol-Sagar Road				Total Original sanction+Additional to be sanctioned	
		Qty Schedule	Unit	Rate	Amount to be paid	Additional Qty	Unit	Rate	Amount to be paid	Total Qty	Total Amount
3	3.3 Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting suitable earth to the embankment location and disposing off unsuitable earth with all lifts and load upto 1000m as per relevant.	150.250	cum	55	8264.00	147.000	cum	55	8085.00	297.25	18349.00
4	3.10 Scarfing Existing Granular Surface to a 50 mm by Manual Means Scarfing the existing granular road surface to a depth of 50 mm and disposal of scarfed material within all lifts and leads upto 1000 metres. (refer clause two of General)	0.000				0.000	cum	23	0.00	0.00	0.00
5	3.15 Surface Drains in Soil Construction of unlined surface drains of average cross sectional area 0.40 sqm in soil to specified lines, grades, levels and dimensions to the requirement of clause 301 and 309. Suitable Excavated material to be used in embankment within a lead of 50 metres as per relevant clauses of	9000	rm	67	603000.00	0	rm	67	0.00	9000.00	603000.00
6	6.15 Providing and laying reinforced cement concrete pipe NP-4 for service ducts below concrete pavement.										
7	b) 600 mm Dia	70	rm	1850	129500.00	0	rm	1850	0.00	70.00	129500.00
8	12.3 Providing Plain cement concrete M-15 nominal mix in foundation as per relevant clauses of sections 1500, 1770	74.896	cum	4348	326158.00	0	cum	4348	0.00	74.896	326158.00
9	4.11 Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including preheating the Material with water at OMC in mechanical mix plant carriage of mixed Material by lorry to	112.75	cum	1483	166338.00	128.94	cum	1483	189397.00	242.69	362333.00
10	5.1 Prime coat Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical means as per clause	485	sqm	37	18315.00	577.50	sqm	37	21368.00	1072.50	39683.00

क्रमांक	गाईडलाइन स्थान	मूख्य (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यवसायिक भवन (वर्गमीटर)			बहुमंजिल भवन (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि मूख्य (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी	आर.बी.सी	टिन शेड	कच्चा कबल	दुकान	कार्यालय	गोडाउन	आवासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00009

1533	21. नगरवाडा	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	7,08,400	4,16,300	460	460
1534	25. चैनवाडा ✓	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,33,600	3,72,000 ✓	400	400

तहसील : लमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00010

1535	26. चाणोटोला मुख्य रोड से लगकर 20 मीटर तक	1,400	2,500	1,400	7,400	5,400	4,200	3,800	11,700	10,900	10,900	0	0	10,73,600	10,73,600	1,400	2,500
1536	27. चाणोटोला मुख्य रोड से 20 मीटर परचात एवम् 500 मीटर तक	1,000	1,700	1,000	7,000	5,000	3,800	3,400	10,900	10,100	10,100	0	0	10,73,600	10,73,600	1,000	1,700
1537	28. चाणोटोला मुख्य रोड से 500 मीटर परचात	1,000	1,700	1,000	7,000	5,000	3,800	3,400	10,900	10,100	10,100	0	0	8,98,400	5,28,800	1,000	1,700
1538	29. मउ ✓	490	490	490	6,490	4,490	3,290	2,890	9,600	8,800	8,800	0	0	7,66,820	4,48,850 ✓	490	490

तहसील : लमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00011

1539	30. अरनामेटा	600	600	600	6,600	4,600	3,400	3,000	9,600	8,800	8,800	0	0	8,02,800	4,72,200	600	600
1540	29. तिखाखारी	480	480	480	6,480	4,480	3,280	2,880	9,600	8,800	8,800	0	0	7,43,040	4,36,800	480	480
1541	32. डिमरुटोला	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,98,000	2,92,800	400	400
1542	33. महकापाटा ✓	567	567	567	6,567	4,567	3,367	2,967	9,767	8,967	8,967	0	0	7,06,662	4,15,483 ✓	567	567

S.No.	Item	As per Original Sanction				As per Additional Work of Shandul-Sagartola road				Total Original sanction+Additional to be sanction	
		Qty Schedule	Unit	Rate	Amount to be paid	Additional Qty	Unit	Rate	Amount to be paid	Total Qty	Total Amount
9	5.2 Tack Coat Providing and applying tack coat with cationic bitumen emulsion using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per relevant										
	(ii)@0.30 kg per sqm (dry & hungry bituminous surfaces /granular surfaces)	2585	sqm	16	41360.00	577.50	sqm	16	9240.00	3162.50	50600.00
	(i)@ 0.25 kg per sqm (normal bituminous surfaces)	14795	sqm	14	207130.00	0	sqm	14	0.00	14795.00	207130.00
10	5.6 Bituminous Concrete Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 % by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a Electronic Sensor paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired										
	b) Using Drum Mix Plant of appropriate capacity.										
	(v)for Grading-I: (30-45 mm thickness) Bitumen Content minimum 5.4% with 60/70bitumen(VG-30)	443.85	cum	9402	4208586.30	0	cum	9482	0.00	443.85	4208586.00
	(vi)for Grading-II (30-45 mm thickness) Bitumen Content minimum 5.4% with 60/70bitumen(VG-40)					17.33	cum	9992	173111.00	17.33	173111.00
11	5.5 Dense Graded Bituminous Macadam Providing and laying dense bituminous macadam using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a Electronic Sensor paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per clause 505 of specification complete in all respects.										
	a) Using Batch Mix Plant of appropriate capacity (v) for GradingII(19 mm nominal	129.25	cum	8657	1118917.00	0	cum	8657	0.00	129.25	1118917.00
	b) Using Drum Mix Plant of appropriate capacity.										
	(v) for GradingII(19 mm nominal size) Bitumen Content minimum 4.5% with bitumen 30/40 (VG 40)					28.88	cum	7957	229758.00	28.88	229758.00

क्रमांक	गाईडलाइन स्थान	मूखंड (वर्गमीटर)			आवासीय मवन (वर्गमीटर)				व्यवसायिक मवन (वर्गमीटर)			बहुमंजिला मवन (वर्गमीटर)		कृषि भूमि (हेक्टे :र)		कृषि मूखंड (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी	आर.बी.सी	टिन श्रेड	कच्चा कवेलु	दुकान	कार्यालय	गोडाउन	आवासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लखमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00012

1543	14. चारवाही	568	568	568	6,568	4,568	3,368	2,968	9,768	8,968	8,968	0	0	7,54,266	4,43,352	568	568
1544	15. बीजापुर	587	587	587	6,587	4,587	3,387	2,987	9,787	8,987	8,987	0	0	7,79,214	4,58,016	587	587
1545	16. हिरवाटोल	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	8,53,600	5,01,600	400	400

तहसील : लखमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00013

1546	17. पुनाडी	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,43,600	3,20,000	400	400
1547	18. पिडकेपार	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	8,53,600	5,01,600	400	400

तहसील : लखमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00014

1548	39. प्रतापपुर	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	5,56,140	3,26,600	460	460
1549	40. मुरझड	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,83,600	2,84,000	400	400

तहसील : लखमता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00015

1550	41. बुढियागाँव	520	520	520	6,520	4,520	3,320	2,920	9,600	8,800	8,800	0	0	7,99,200	3,49,800	520	520
1551	42. हुटी	480	480	480	6,480	4,480	3,280	2,880	9,600	8,800	8,800	0	0	5,54,880	3,26,880	480	480

S.No.	Item	As per Original Sanction				As per Additional Work of Shahdol-Sagarola road				Total Original sanction + Additional to be sanction	
		Qty Schedule	Unit	Rate	Amount to be paid	Additional Qty	Unit	Rate	Amount to be paid	Total Qty	Total Amount
18	4.13 Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 KN static weight to meet B1 Hard Shoulders (CBR>12)										
19	3.13 Embankment Construction with Material Obtained from Borrow Pits Construction of embankment with approved material having CBR>7 obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of 100% compaction. Approaches of Bridge & culverts damaged due to rains.	5775	cum	223	1287825.00	147.64	cum	223	32923.00	5922.64	1320748.00
20	15.1 Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and Technical specification: (A) Boulder laid dry without wire netting.	6451.25	cum	155	999944.00	3700.45	cum	155	573569.00	10151.70	1573513.00
21	15.7 Providing and laying Flooring complete as per drawing and Technical specifications laid over cement concrete bedding.	714.375	cum	2211	1579483.00	0	cum	2211	0.00	714.38	1579483.00
22	(C) Cement Concrete Grade M15 15.10 Flexible Apron: Construction of flexible apron 1 m thick comprising of loose stone boulders weighing not less than 40 kg beyond curtain wall.	270	cum	4850	1309500.00	0	cum	4850	0.00	270.00	1309500.00
23	15.4 Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications	380	cum	2279	866020.00	0	cum	2279	0.00	380.00	866020.00
24	15.5 Providing and laying suitable designed filter material underneath pitching in slopes complete as per drawing	180	cum	2211	397980.00	0	cum	2211	0.00	180.00	397980.00
25	16.4 Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion	180	cum	750	135000.00	0	cum	750	0.00	180.00	135000.00
		10	each	117	1170.00	0	each	117	0.00	10.00	1170.00

क्रमांक	गाईडलाइन स्थान	मूखंड (वर्गमीटर)			आवासीय मवन (वर्गमीटर)				व्यवसायिक मवन (वर्गमीटर)			बहुपरिजला मवन (वर्गमीटर)		कृषि भू : (हेक्टेयर)		कृषि मूखंड (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी	आर.बी.सी	टिन शेड	कच्चा कवेल	दुकान	कार्यालय	गोडाउन	आवासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00019

1563	54. गोतेगाव	615	615	615	6,615	4,615	3,415	3,015	9,785	8,985	8,985	0	0	6,40,660	3,77,210	615	615
1564	55. उमरिया (माल)	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	4,94,960	2,91,180	460	460
1565	56. उमरिया (रै.)	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,30,400	2,53,200	400	400
1566	57. कनारी	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	4,85,760	2,86,120	460	460
1567	58. पट्टरापानी बिरान	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,18,400	2,46,400	400	400

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00020

1568	59. कोचेयाडा	600	600	600	6,600	4,600	3,400	3,000	9,800	9,000	9,000	0	0	6,27,600	3,69,600	600	600
1569	60. नरसिंगा	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	4,90,360	2,88,880	460	460

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00021

1570	61. अतरी	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,18,400	2,46,400	400	400
1571	62. अमोली	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,18,400	2,46,400	400	400

S.No.	Item	/per Original Sanction				As per Additional Work of Shadoli-Sagarola road				Total Original sanction+Additional to be sanction	
		Qty Schedule	Unit	Rate	Amount to be paid	Additional Qty	Unit	Rate	Amount to be paid	Total Qty	Total Amount
26	16.5 Sealing of cracks/porous concrete by injection process through nipples/GROUTING complete as per Technical specification.										
27	16.6 Patching of damaged concrete surface with polymeric concrete and promoter, available in present formulations, to be applied as per	139	Kg	150	22101.00	0	Kg	150	0.00	139.00	22101.00
28	16.7 Sealing of crack / porous concrete with Epoxy GROUT by injection through nipples complete as per clause 2803.1	265	Kg	1791	474615.00	0	Kg	1791	0.00	265.00	474615.00
29	16.8 Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per	90	Kg	1583	142470.00	0	Kg	1583	0.00	90.00	142470.00
30	4.1 Granular Sub-base with Well Graded Material (CBR>30 or more) (Table: 400-1) Construction of granular sub-base by providing well graded material like natural sand crushed gravel or crushed stone having CBR >30, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with reclaimer or plant mix method at OMC, and compacting with vibratory rollers of 80	80	sqm	952	76160.00	0	sqm	952	0.00	80.00	76160.00
Total (A)											
Deduct as per tender rate 15.99%					16360049.00	203.89	cum	934	246474.00	263.89	246474.00
Grand Total Rs.					-2615972.00				1488525.00		17846574.00
Add GST 18% of					13744077.00				-238015.00		-2853987.00
					2473934				1260510.00		14994587.00
					16218011.00				225082		2899026.00
									1475602.00		17693613.00
Grand Total											

Sub Engineer

Assistant Engineer
NH-543, Mandla
P.W.D. NH Divn. Jabalpur

Executive Engineer
P.W.D. NH Division
Jabalpur

क्रमांक	गाईडलॉइन स्थान	मूखंड (वर्गमीटर)			आवासीय मकान (वर्गमीटर)				व्यवसायिक मकान (वर्गमीटर)			बहुमंजिला मकान (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि मूखंड (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी	आर.बी.सी	टिन शेड	कच्चा कबलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00022

1572	63. मोरिया	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,54,800	2,67,200	400	400
1573	64. कुहारी	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	5,23,020	3,07,280	460	460
1574	65. पांडेवाडा (माल.)	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	5,17,960	3,04,520	460	460
1575	पांडेवाडा (रं.) ✓	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,50,400	2,64,800 ✓	400	400

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00023

1576	66. मालेवाडा	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,50,400	3,24,000	400	400
1577	67. खोंगरबोडी ✓	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,26,800	3,09,600 ✓	400	400
1578	68. झिरियाटोला	460	460	460	6,460	4,460	3,260	2,860	9,600	8,800	8,800	0	0	5,12,900	3,01,300	460	460
1579	69. चाचेरी	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,96,800	2,92,000	400	400
1580	70. मुडीटोला	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,46,000	2,62,000	400	400

S.No	Item	No.	L	B	D	Estt Qty	Rate	Unit	Amount
20	15.1 Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and Technical specification. (A) Boulder laid dry without wire								
	Balaghat-Nainpur stretch								
		4	20	3	0.75	180.00			
		4	20	6	0.75	360.00			
		4	30	3	0.75	270.00			
		4	30	6	0.75	540.00			
		4	13	2.5	0.75	97.50			
		4	10	2.5	0.75	75.00			
		4	9	2.5	0.75	67.50			
		4	19.5	2.5	0.75	146.25			
		4	40	2.5	0.75	300.00			
		4	9	2.5	0.75	67.50			
						2103.75	2211	cum	4651391.00
21	15.4 Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and								
	Balaghat-Nainpur stretch	20	25	10	0.3	1500.00			
	Mandla-Nainpur-Bamhani stretch	20	50	10	0.3	3000.00			
						4500.00	2211	cum	9949500.00
22	15.5 Providing and laying suitable designed Filter material underneath pitching in slopes complete as per drawing and Technical specification								
	Balaghat-Nainpur stretch	20	25	10	0.15	750.00			
	Mandla-Nainpur-Bamhani stretch	20	35	10	0.15	1050.00			
						1800.00	750	cum	1350000.00
23	15.7 Providing and laying Flooring complete as per drawing and Technical specifications laid over cement concrete bedding. (C) Cement Concrete Grade M15 ((5+7+3)x6.00x0.3=27 cum)								
	Balaghat-Nainpur-Mandla-stretch	30		27 cum per bridge approx.		810.00	4850	cum	3928500.00
24	15.10 Flexible Apron :Construction of flexible apron 1 m thick comprising of loose stone boulders weighing not less than 40 kg beyond curtain wall.								
	Balaghat-Nainpur-Mandla-stretch	30		38 cum per bridge approx.		1140.00	2279	cum	2598060.00
25	16.4 Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy								
	Balaghat-Nainpur-Mandla-stretch	30		27 Nos/Bridge approx(L.S.)		810.00	117	each	94770.00
26	16.5 Sealing of cracks/porous concrete by injection process through nipples/Grouting complete as per Technical specification. (B) Cement mortar (1:1) Grouting								
	Balaghat-Nainpur-Mandla-stretch	30		13.9 Kg/Bridge approx(L.S.)		417.00	159	kg	66303.00

क्रमांक	गाईडलाइन स्थान	मूखंड (वर्गमीटर)			आवासीय मवन (वर्गमीटर)				व्यवसायिक मवन (वर्गमीटर)			बहुमंजिल मवन (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि मूखंड (वर्गमीटर)	
		आवासीय	व्यवसायिक	औद्योगिक	आर.सी.सी	आर.बी.सी	टिन शेड	कच्चा कवेल	दुकान	कार्यालय	गोडाउन	आवासीय	व्यवसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यवसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00024

1581	71. नेवरगाव ✓	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,46,000	2,62,000 ✓	400	400
1582	72. मोहागावखुर्द ✓	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	4,46,000	2,62,000 ✓	400	400
1583	73. लखेरी ✓	540	540	540	6,540	4,540	3,340	2,940	9,600	8,800	8,800	0	0	6,86,540	4,03,975 ✓	540	540

तहसील : लामता, उप क्षेत्र : नान प्लानिंग क्षेत्र , पटवारी हल्का : 00025

1584	74. सोरवी (वीरान घाघ)	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,11,200	3,00,800	400	400
1585	75. धातुगल्ली	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,30,800	3,12,000	400	400
1586	76. राईरवा	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	6,42,000	3,77,600	400	400
1587	77. खागी	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,30,800	3,12,000	400	400
1588	78. दुरेन्दा माल	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,30,800	3,12,000	400	400
1589	79. दुरेन्दा रैयत	400	400	400	6,400	4,400	3,200	2,800	9,600	8,800	8,800	0	0	5,30,800	3,12,000	400	400



कार्यालय कार्यपालन यंत्री लोक निर्माण विभाग
राष्ट्रीय राजमार्ग संभाग जबलपुर



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ज्ञाप कं. 2854/तक / 2023-24
प्रति,

दिनांक 07/08/2024

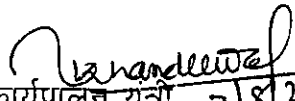
सहायक यंत्री,
543 मण्डला लो नि वि रा.रा.संभाग,
जबलपुर (म.प्र.)

विषय: लामता माइको प्रेशराईज्ड पाईप इरिगेशन नेटवर्क (होज सिस्टम) कार्य हेतु NH543
रोड कासिंग की अनुमति प्रदान किये जाने के संबंध में ।

संदर्भ : कार्यालय कार्यपालन यंत्री जल संसाधन सर्वेक्षण संभाग बालाघाट का पत्र कं.583/
कार्य/ लामता माइको इरिगेशन /पार्ट-4/23-24/बालाघाट दिनांक 28.03.2024

उपरोक्त विषयांतर्गत लेख है कि निर्माणाधीन लामता माइको प्रेशराईज्ड पाईप
इरिगेशन नेटवर्क (होज सिस्टम) का कार्य प्रगतिरत है जिसका कार्य टर्न की पद्धति पर किया
जाना है उक्त सड़क एन एच 543 रोड कटिंग कर कासिंग पाईप स्थापित किया जाना है ।
कासिंग का स्थान एवं पाईप की जानकारी संलग्न है । उपरोक्त संलग्न स्टेटमेंट के अनुसार रोड
कटिंग कर कासिंग पाईप स्थापित किये जाने हेतु कार्य स्थल का निरीक्षण कर अपनी टीप के साथ
प्रकरण प्रस्तुत करें जिससे संबंधित विभाग को अनुसार रोड कटिंग कर कासिंग पाईप स्थापित
करने की अनुमति प्रदान की जा सके ।

सहपत्र मूलतः प्रकरण


कार्यपालन यंत्री 7/8/2024
लो. नि. वि.रा.रा.संभाग जबलपुर

Enclosure to Ministry of Road Transport & Highways letter No. 33044/29/2015 S&R(R) dated 22.11.2016.

Format for maintainig Records of Right-of-way permission granted for laying OFC

(To be maintained separately for every NH and state)

1. Name of state : Madhya Pradesh
2. Name of agency (MORTH) : NHAI
3. NH Number : NH543

S.NO.	Location (Chainage in KM)			Left or right side of NH (towards increasing chainage/KM direction)	Section and reach	Kind of service		Name of licence and contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection on site	Any deviation from most standard norms	R e m a r k s
	No			LHS&RHS	Gudro to Lewari	Irrigation Water Supply		Water Resources Survey Division, Balaghat (M.P.) - 481001					

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer
National Highway 543 Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)

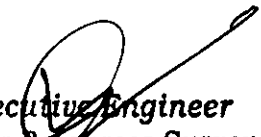
Executive Engineer
P.W.D. N.H. Division
JABALPUR

CHECK-LIST

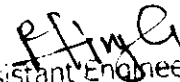
Guidelines for project Directors for processing the proposal of Water pipeline by private parties in the land along National Highways vested with NHAI.


Relevant Circulars

- 1) Ministry Circulars No. RW/NH-33044/17/2000-S&R dated 29.09.2000
- 2) NHAI circular no. NHAI/OEC/2k/Vol II dated 7.11.2000 which includes the comprehencies guidelines and draft license agreement for laying of OFC cable by private party in the land along National Highways vested with NHAI.
- 3) Ministry's circular no. RW/NH-333044/27/2000-S&R date 21.03.2006. it is regarding the modification of previous Ministry's circular enhancing the amount of performance Bank Guarantee @ Rs.50/- per route meter in place of earlier rate of Rs.25/- per route meter.
- 4) Ministry's circular no. RW/NH-33044/27/2005-S&R (Pt) date 06/07.08.2013. it is regarding the modification of previous Ministry circular enhancing the amount of performance Bank Gurantee @Rs.100/- per route meter in place of earlier rate of Rs.50/- per route meter.
- 5) Ministry of Road Transport & Highways letter No. 33044/29/2015/S&R dated 22.11.2016. It is regarding the modification of previous Ministry's circular enhancing the amount of performance Bank Guarantee @Rs.100/- & additional charges as per utilized NH Land area.


Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)


Sub Engineer


Assistant Engineer
National Highway 543 Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)


Executive Engineer
P. W. D. N. H. Division
JABALPUR

Check list for getting approval for laying of water pipe line on NH land

S.No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and address of the applicant	Water Resources Survey Division Balaghat (M.P.) - 481001	
1.2	National Highway Number	NH-543	
1.3	State	Madhya Pradesh	
1.4	Location	Gudru to Laweri	
1.5	(Chainage in KM)	NH-543 Gudru to Laweri Total section length ROW applied for 28.4km	
1.6	Length in meters		
1.7	Width of available ROW	24m	
	(a) Left side from center line towards increasing chainage km direction	12m	
	(b) Right side from center line towards increasing chainage/KM direction	12m	

1.8	Proposal to lay Pipeline		
	(a) Right side from center line towards increasing chainage/KM direction	NH-543 Gudru to Laweri Total section length ROW applied for 28.4km	

[Signature]
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

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Suby

[Signature]
Assistant Engineer
National Highway 543 Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)

[Signature]
Executive Engineer
P. W. D. N. H. Division
JABALPUR

	(b)Right side from center line towards increasing chainage/KM direction	NA	
1.9	Proposal to acquire land	NO	
	(a)Left side from center line towards increasing chainage/KM direction	NH-543 GUdru to Laweri Total section length ROW applied for 28.4km	
	(b)Right side from the center line towards increasing chainage/KM direction		
1.10	Whether proposal is in the same side where land is not to be acquired	Yes	
	If not then where to lay the pipeline		
1.11	Details of already liad services if any along the proposed route	NA	
1.12	Number of lanes (2/4/6/8 Lanes)existing	2 Lanes	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8lanes)	NA	
1.14	Service road existing or not	Not	
	If yes then which side		
	(a)Left side from center line	NA	
	(b)Right side from center line	NA	
1.15	Proposed road services		
	(a)Left side from center line	NA	
	(b)Right side from center line	NA	
1.16	Whether proposal to lay pipeline is after the service road or between the service road and maintain carriageway	EXTREME Edge of ROW	
1.17	The permission for laying pipeline shall be considered for approval/rejection		
	(i)Where the ROW is more than the pipeline shall be liad at the edge of right of way within the utility corridor of 2m width duly keeping in view the future widening.	Yes	
	(ii)Where land is yet to be acquired for 4 lanning and the position of new	NA	

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Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer
National Highway 543 Mandla
P.W.D. Mandla, Jabalpur (M.P.)

Executive Engineer
P. W. D. N H, Division,
JABALPUR

	carriageway has been decided then the cable shall be liad at the edge of right of way within the utility corridor of 2m width, on that side of existing carriageway where extra land is not Proposed to be acquired for 4-lanning		
	(iii)Where the widening plan for 4-lanning is not yet decided and available ROW is around 30m or less a judicious decision would need to be taken for permitting the laying of pipeline. This could be within 1.5m to 2m of utility corridor at the edge of existing ROW duly keeping in view the possible widening plans.	NA	
	(iv)Where ROW is restricted and adequate only to accommodate the carriageway, centralverge, shoulders and drains(e.g. highway in cutting through hilly/rolling terrain) the cable shall be liad clear of the drain.	NA	
	(v)Where land strip for utility corridor cannot be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable ducts the permission may br refused	NA	
1.18	No. of applicants of the same stretch	1	
1.19	Whether the case of multiple licences	Single	
1.20	If so furnish a joint implementation programmer to lay their respective ducts within stipulated time frame.	NA	
1.21	If crossings of the road involved. If yes it shall be trenchless technology	Yes	
2.	Documents/Drawing enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (it is normal size of 1.65m deep x 0.7m wide) Should not be greater than 1.5m in width in multiple ducts.	Yes Standard size	
2.2	Cross section showing the size of pit and location of pipeline for HDD method	Drawing Attached	
2.3	Strip plan/Route plan showing the pipeline, chainage, width of ROW,	Yes Attached	

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer

National Highway 543 Mandla
P.W.D. Mandla Division (M.P.)

Executive Engineer
P. W. D. N. H. Division
JABALPUR

	distance of proposed cable from the edge of ROW important mile stone, intercection cross drainage works etc.		
2.4	Methodology for laying of Water Pipeline	OT & HDD	
2.4.1	Opening trenching method if yess methodology of refilling of trench	Yes refilling by excavated material	
2.4.2	Horizontal Directional Drilling method	Only for crossing	
2.4.3	Laying pipeline through CD works and method of laying (Whether to be hung outside parapet)	Yes	
3.	Draft licence Agreement signed by two witness	Yes	
4.	Performance Bank Guarantee	Yes	
4.2	Conformation of BG has been obtained by as per NHAi guidlines	BG shall be submitted as per MoRTH guideline	
5.	Affidavit/ Undertaking from the Applicant for:-		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAi or to the concerned agency.	Yes, covered in agreement	
5.2	Renewal of Bank Guarantee	Yes, covered in agreement	
5.3	Confirming all standard condition of NHAi's guideline	Yes, covered in agreement	
5.4	Shifting of Pipeline as and when required by NHAi	Yes, covered in agreement	
5.5	Shifting due to 4 lanning / widening of NH	Yes, covered in agreement	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes, covered in agreement	
5.7	Traffic movement during laying of OFC to be managed by the applicant	Yes, covered in agreement	
5.8	If any claim is raised by the Concessionaries then the same has to be paid by the applicant	Yes, covered in agreement	
5.9	Prior approval of the NHAi shall be obtained before undertaking any work if installation, shifting or repairs or alteration to the showing Water pipeline	Yes, covered in agreement	

Executive Engineer
Water Resources Survey
Division Balaighat (M.P.)

Assistant Engineer

National Highway 543 Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)

Executive Engineer
P. W. D. N. H. Division
JABALPUR

	located in the National Highway right-of-ways.		
5.10	Expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by the laying maintenance or shifting of the Water pipeline will be borne by the agency owing the line.	Yes, covered in agreement	
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owing the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes, covered in agreement	
5.12	Certificate from the application in the following format		
	i. Laying of water pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.		
	ii. for 6-lanning from the applicant in following format "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 NHAI" for future six-lanning or any other development."	Yes, covered in undertaking	
6.	Power of Attorney in favor of authorized signatory		
7.	Copy of DOT license		
8.	Certificate from the Project Director		
8.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH- 33044/17/2000-S&R dated 29.9.2000 and NHAI guidelines issued vide No. NHAI/OEC/2K/VOL II dated 7.11.2000 and Ministry's Circular No. RW/NH- 33044/27/2005-S&R R (Pt)date		

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer

National Highway 543 Mandla
P.W.D. & N. Div. Jabalpur (M.P.)

Executive Engineer
P. W. D. N. H. Division
JABALPUR

	06/07.08.2013 & Ministry of road transport & highway letter no. 33044/29/2015/S&R R dated 22.11.2016.		
8.2	Certificate for 4-lanning from PD in the following format.	NA	
	<p>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 structures at the said location.</p> <p>b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning".</p>	Gudru to Laweri	
9.	The agreement fee of Rs. 1 shall be charged	Yes	
10.	If NH section proposed to be taken up by NHAI on BOT basis- a clause in para 17 to be inserted in the agreement. The permitted Highway on which License has been granted the right to lay cable/duct has also been granted as a right of way to be concessionaire under the concession agreement for up=gradation ofsection from Km to km.....of NMH No:-.....On Build operate and Transfer basis and therefore the licence shall honour the same.		
11.	Who will supervise the work of laying of pipeline.	WRD	
12.	Who will pay the claims for damages done/disruption in working of ConGessionaire if asked by the Concessionaire.	WRD	
13.	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the Concessionaire.	WRD	
14.	A Certificate from PD that he will enter the proposed permission in the register of records of the permissions in the	Yes	

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer

National Highway 543 Mandla
P. W. D. N. H. Division

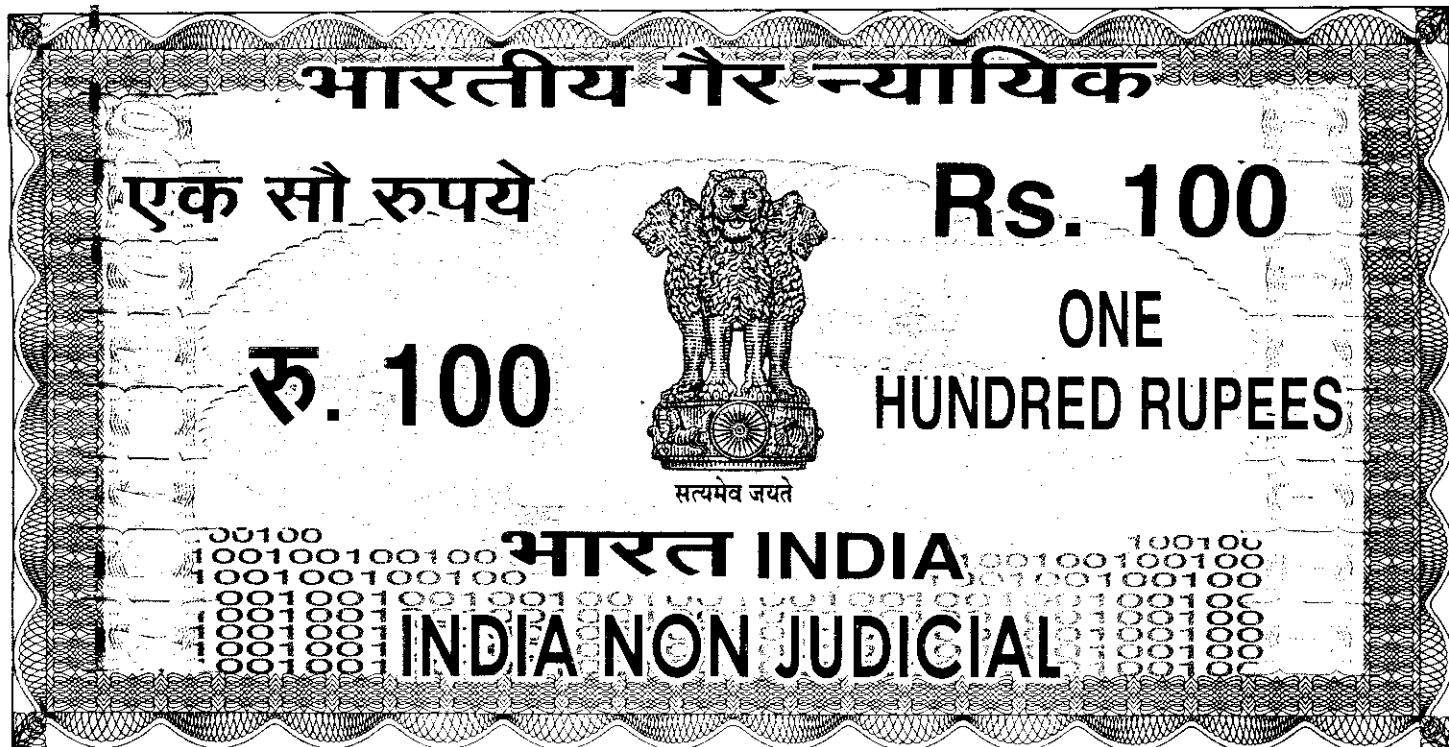
Executive Engineer
P. W. D. N. H. Division
JABALPUR

	prescribed proforma (COPY ENCLOSED) ISSUED VIDE MINISTRY Circular No. RW/NH/33044/17/2000/S&R dated 23.07.2003. Ministry Circular No. RW/NH/33044/27/2005-S&R R (Pt) date 0/07.08.2013 & Ministry of road transport & Highway letter No. 33044/29/2015/S&R R dated 22.11.2016		
15.	If any previous approval accorded for laying of cable then photocopy of register of records of permissions accorded as maintained by PD Ministry of road Transport & Highways letter No. 33044/29/2015/S&R R dated 22.11.2016 as referred in para 13 above is enclosed	NA	

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

P. H. W.
Assistant Engineer
National Highway 513 Mandla
P.W.D. U.S. Dist. Jabalpur (M.P.)

Executive Engineer
P. W. D. N. H. Division
& JABALPUR



मध्य प्रदेश MADHYA PRADESH

CN 493347

UNDERTAKING – 1 (Clause No. 5.1)

Water Resources Division Balaghat (M.P.) is here by undertaking that we shall take care of all existing utilities during laying of pipeline. If any damage or loss will noticed to existing utilities during laying of pipeline Water Resources Department will pay all expense's to restore the same to its original condition to concern agency or NHAI.

CERTIFICATION

I Yogesh Jain, Notary Balaghat being empowered by Notaries Act, 1952 and the rule made this under in the year 1956, here I certify that the document have being read over and made understood the contents of this documents their after they signed / affixed thumb impression on this document along with the witnesses

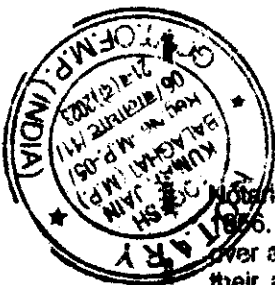
Hence I attested this document under my seal and signature in my office at Balaghat Dated.....

balaghat (M.P.,

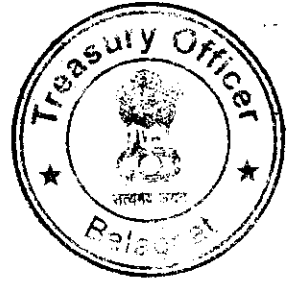
16/12/2024

Notary
Yogesh Jain

(Signature)
Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)



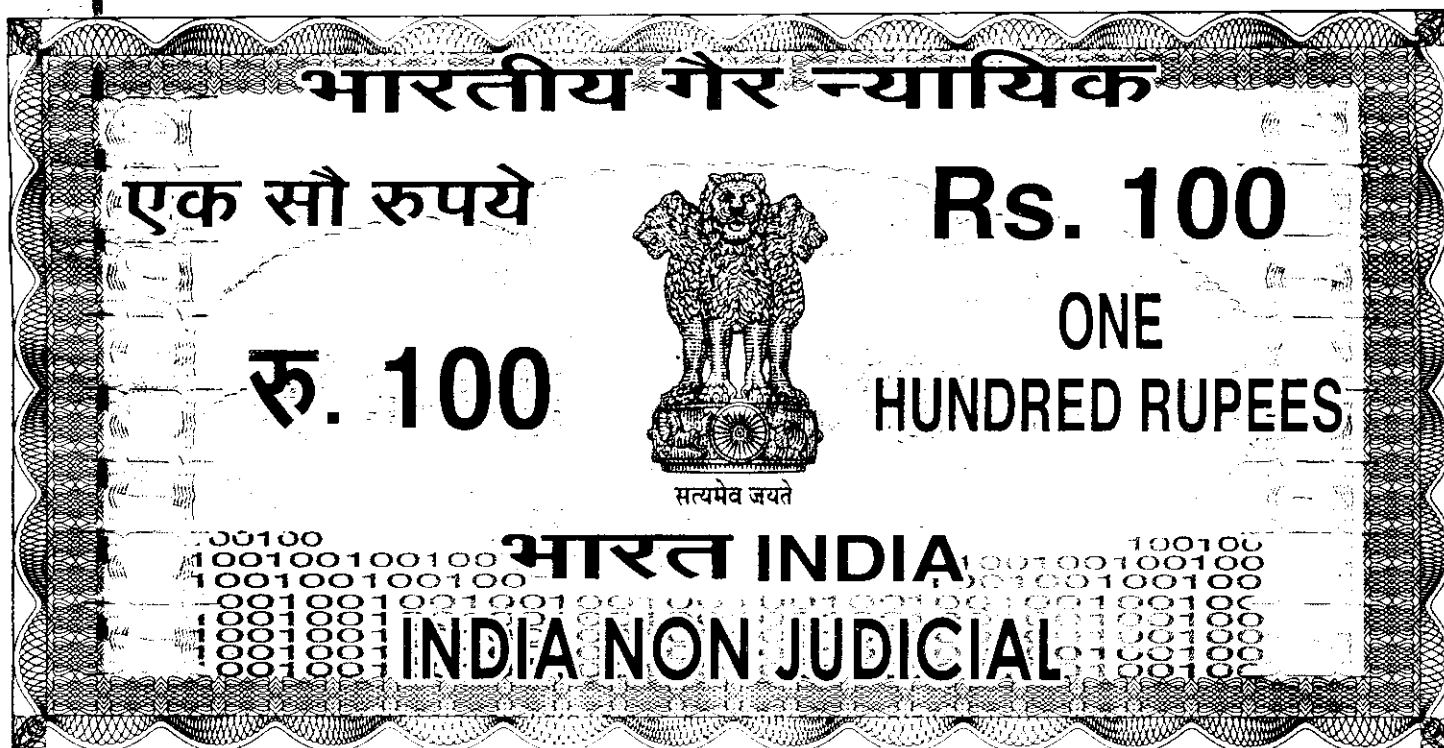
क्रमांक 549 दिनांक 14/10/2024 स्टाम्प डि...
वा.केता...
पता...
मा...
संव्यवहार के प्रकार...
भूगोजन...



फरान सीनी
स्टाम्प बैडर, बालाघाट

100X1 = 1001

[Handwritten signature]



मध्य प्रदेश MADHYA PRADESH

CN 493346

UNDERTAKING – 2 (Clause No. 5.2)

Water Resources Division Balaghat (M.P.) is here by undertaking that we are ready to deposit Bank Guarantee of RS _____ as and when intimated by NHAI against laying pipeline across to National Highway – 543 at NH chainage _____ Km to _____ Km. We also undertake that if the construction activity will not completed within the validity of Bank Guarantee to the satisfaction of NHAI. Bank Guarantee shall be renewed till completion of construction activity of the satisfaction of NHAI.



CERTIFICATION

I Yogesh Jain, Notary Balaghat being empowered by Notaries Act, 1952 and the rule made this under in the year 1956, here certify that the document have being read over and made understood the contents of this documents their after they signed & affixed thumb impression on this document along with the witnesses.

Hence I attest this document under my seal and signature in my office at Balaghat Dated.....

balaghat (M.P.)

16/1/2024

Notary
Yogesh Jain

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

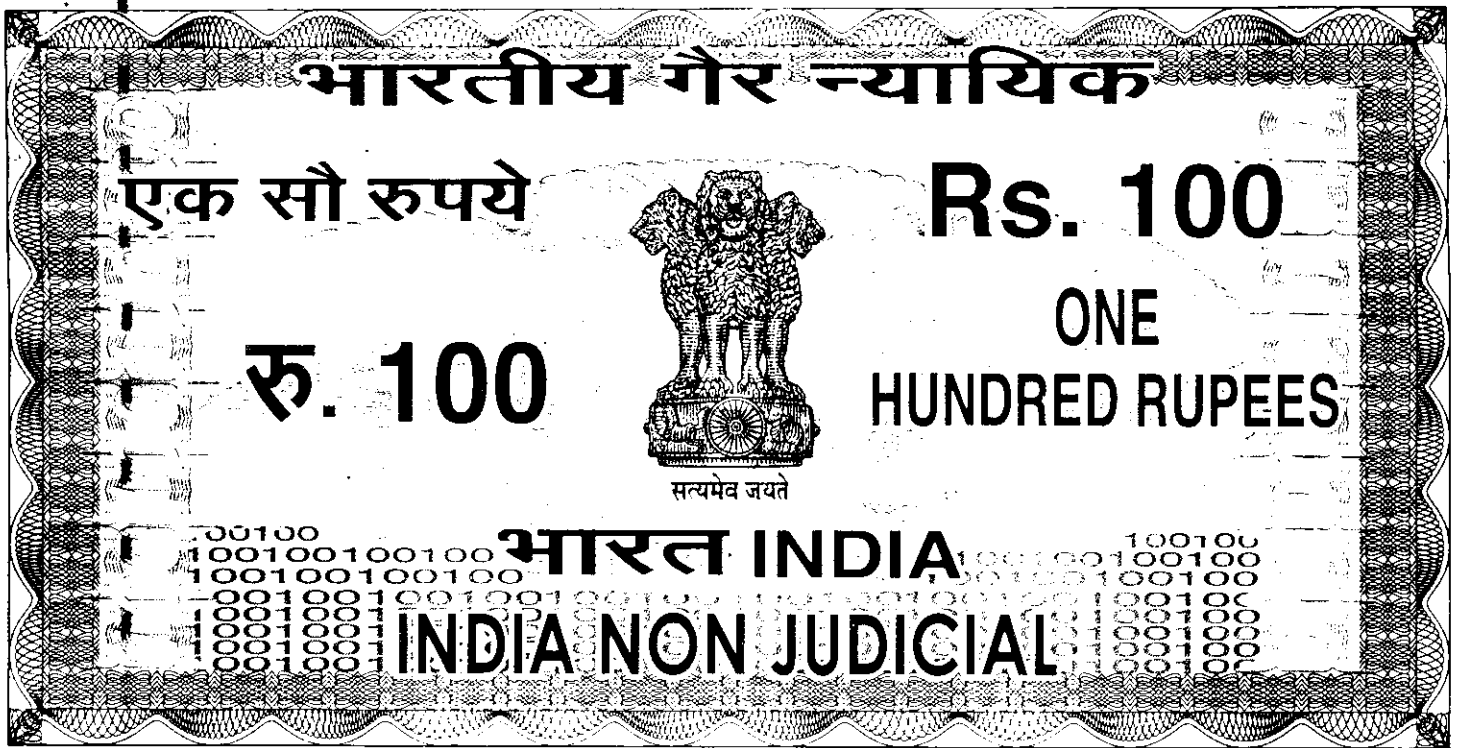
कमाक...५५०...दिनांक...14/10/24...स्टाम्प डि...
वा.केता...
पता...
मा...
संव्यवहार के पलकार...
भुगजन... मल्य...



100X1-100/

[Signature]
प.सि.स.स.नी
स्टाम्प वेडर.बालाघाट

[Signature]

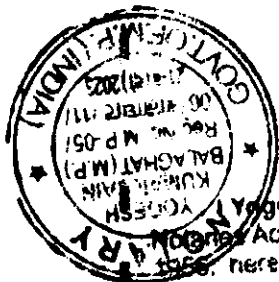


मध्य प्रदेश MADHYA PRADESH

CN 493342

UNDERTAKING – 4 (Clause No. 5.4 & 5.5)

Water Resources Division Balaghat (M.P.) is here by undertaking that in future if NHAI required or any expansion (widening 6 laning) in National Highway – 543 at chainage _____ Km to _____ Km will carried out and if needs to remove the pipeline from NH ROW the same shall be removed or shift by Water Resources Division Balaghat (M.P.) at its own coast.



CERTIFICATION

Yogesh Jain, Notary Balaghat being empowered by Notary Act, 1952 and the rule made there under in the year 1956, here certify that the documents have being read over and made understood the contents of this documents their after they signed in presence of my impression on this document along with the witnesses.

Hence I am signing this document under my seal and signature in my office at Balaghat dated.....

Balaghat (M.P.)

Notary
Yogesh Jain

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)


Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)



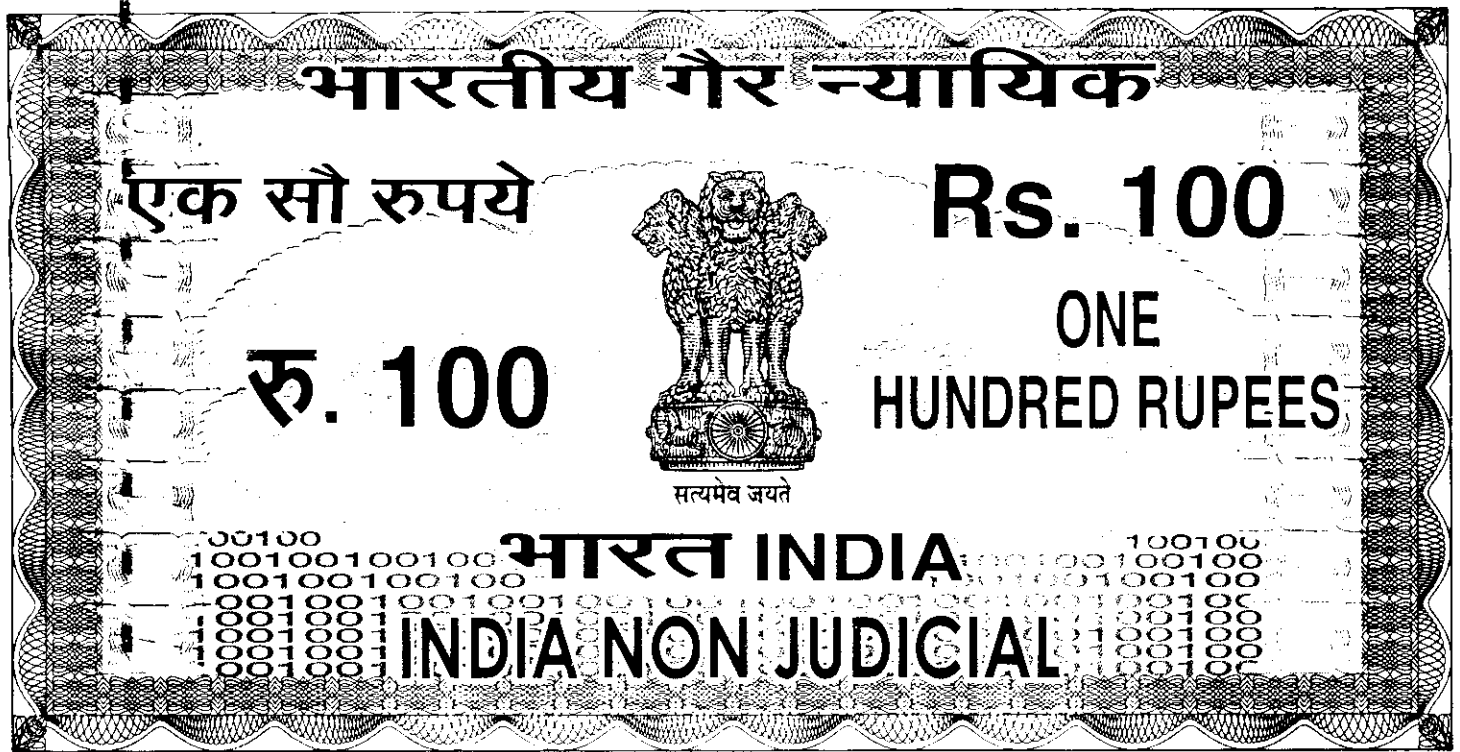
कमाक... ८८५ दिनांक 14.10.2024
वा केता ~~विश्वप्रमुख~~ इंजिनियर कार रोस सेवे
प ~~बालनगरी~~ कालोनी सिवनी राड बालाघाट
म ~~मनीष~~ पंवार
सर्ववहार के पंक्तिकर

ग्रगजन...

100 X 1 = 100/-


फरीन सानी
स्टाम्प वेडर बालाघाट



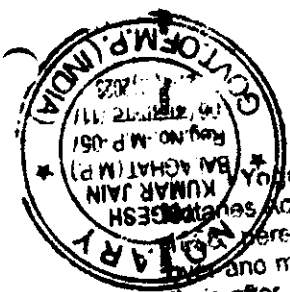


मध्य प्रदेश MADHYA PRADESH

CN 493343

UNDERTAKING – 5 (Clause No. 5.6)

Water Resources Division Balaghat (M.P.) is here by undertaking that we shall take proper insurance coverage (indemnity) for prospects damages and claims during pipeline laying across to National Highway – 543 at NH chainage _____ Km to _____ Km.



CERTIFICATION

Yogesh Jain, Notary Balaghat being empowered by the Notaries Act, 1952 and the rule made thereunder in the year 1953, do hereby certify that the documents have been read and made understanding the contents of this documents and after they sign and affixed their impression on this document along with their seals.

Hence I attested the document under my seal and signature in my office at Balaghat Dated.....

Balaghat (M.P.)

Notary
Yogesh Jain

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)

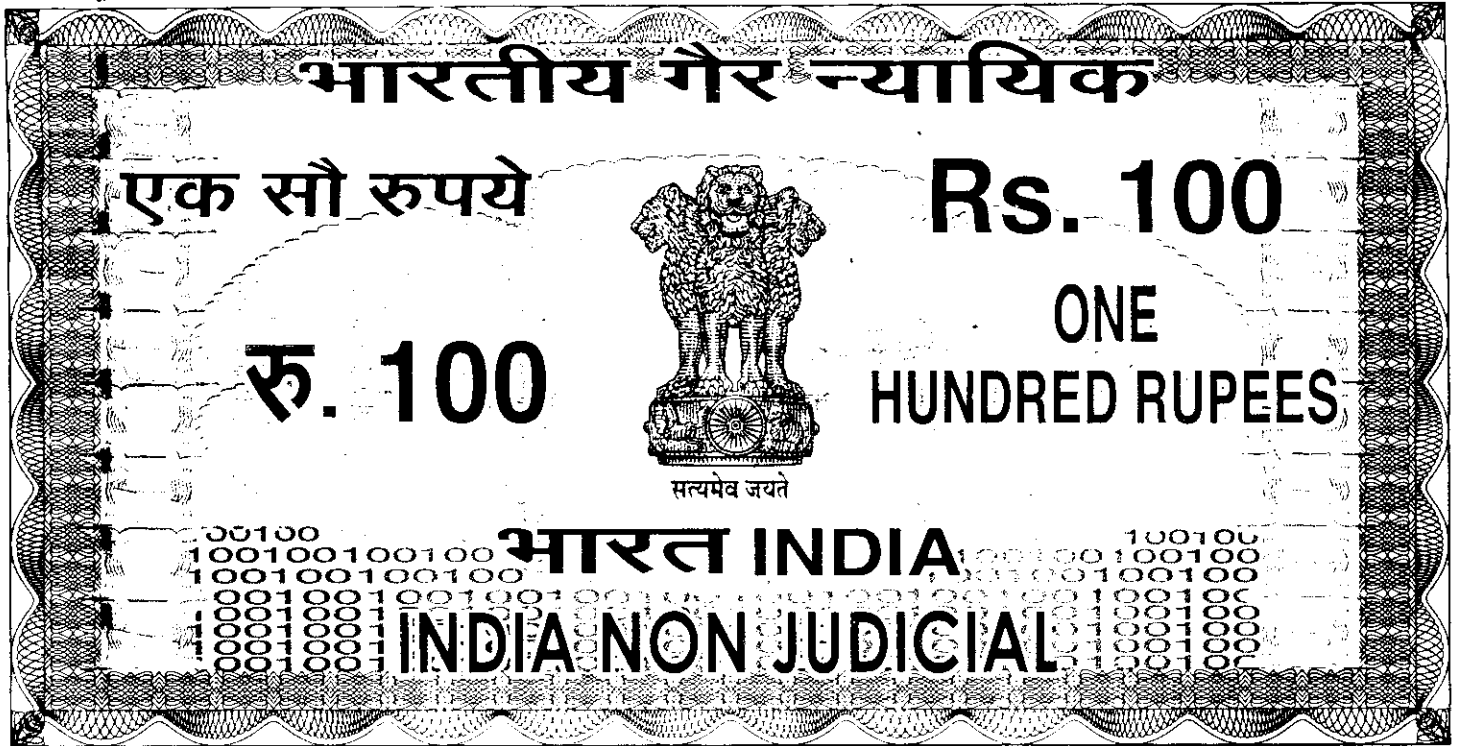
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

कमाक... 553 दिनांक 14-16-2004 स्टांप डि. 160/-
वा केता... मुद्रित इन्विजिस्टर गार रिसोर्स सर्वे
प... बालनगिरी कालोनी सिविलीयेड बालाघाट
म... मनीष पंवार
संव्यवहार के पक्षकार ...
ग्रुपोजन...



(10X1) = 100

फरस सीनी
स्टांप वेंडर, बालाघाट



मध्य प्रदेश MADHYA PRADESH

CN 493345

UNDERTAKING - 6 (Clause No. 5.7)

Water Resources Division Balaghat (M.P.) is hereby undertaking that pipeline shall be laid across National Highway - 543 at chainage _____ Km to _____ Km through digging (open cut) method and diversion road shall be made for traffic movement during pipeline laying at NH crossing.



CERTIFICATION

I, Yogesh Jain, Balaghat being empowered by Notaries Act, 1952 and the rule make this under in the year _____, here, before me, the documents have being read over and made understood the content of this documents their after they sign and affix their expression on this document and I have signed and affixed my seal.

Hence I certify that the documents are under my seal and signature in my office at Balaghat Dated.....

Balaghat (M.P.)

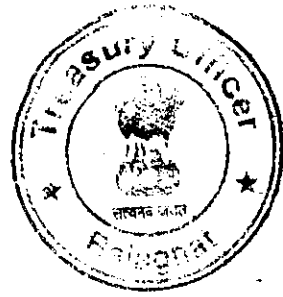
[Signature]

Notary
Yogesh Jain

[Signature]

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)

[Signature]
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)



क्रमांक..... 58/..... दिनांक 5/11/2024 चक्रांक 1001 -

वा. नं. 174 ज. नं. 1001 दिनांक 5/11/2024 वा. नं. 1001 -

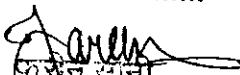
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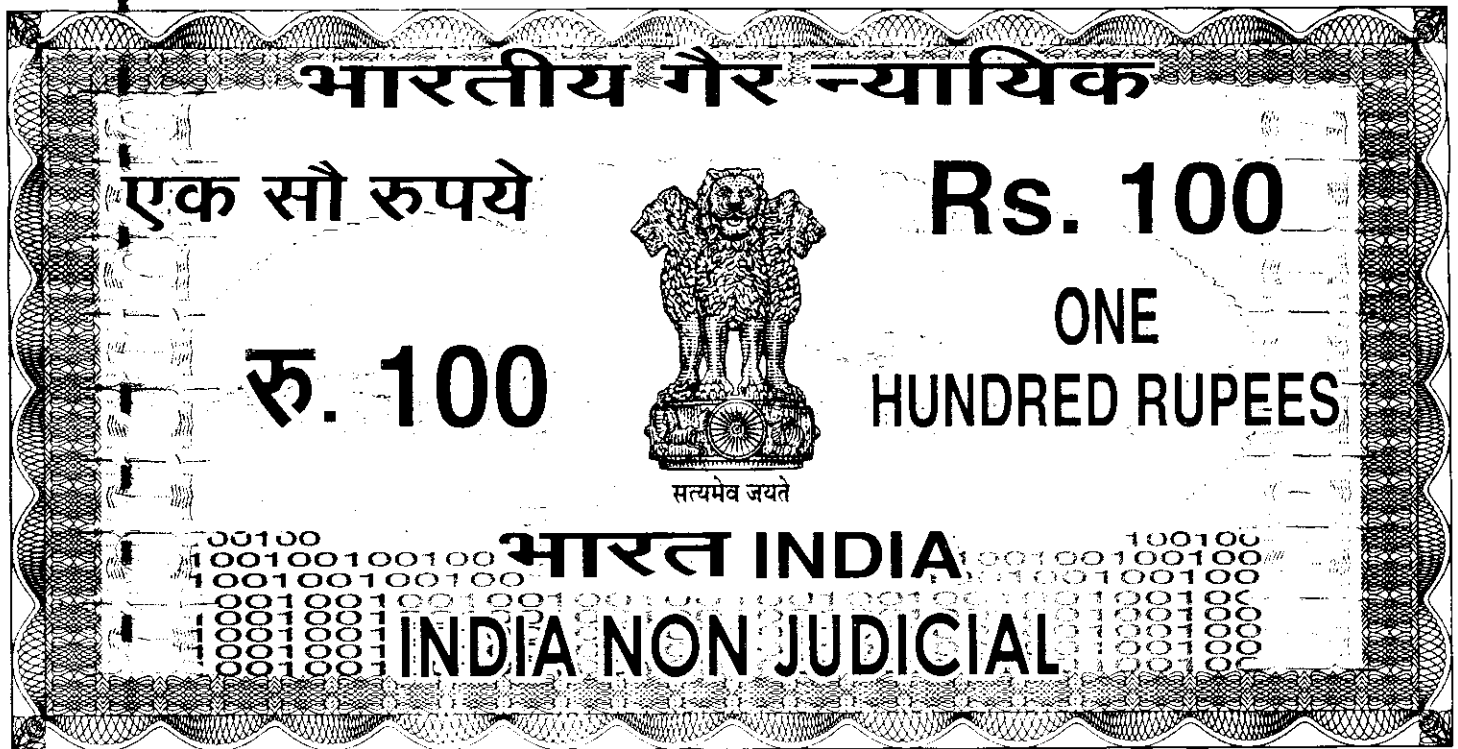
संभव्यहार के पक्ष में

भुगतान..... म. नं. 1001 दिनांक 5/11/2024

100 x 1 = 100


फ. नं. 1001
स्टाम्प वेडर, बालाघाट



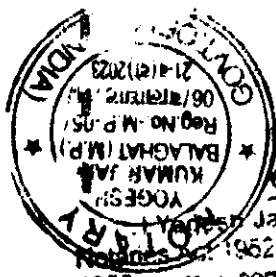


मध्य प्रदेश MADHYA PRADESH

CN 493340

UNDERTAKING – 7 (Clause No. 5.8)

Water Resources Division Balaghat (M.P.) is hereby undertaking that if any claim raised by concessionaire for laying pipeline across to the National Highway – 543 at NH chainage _____ Km to _____ Km then the same will be paid Water Resources Division Balaghat (M.P.).



CERTIFICATION

Yogesh Jain, Notary Balaghat being empowered by Notaries Act, 1952 and the rule made thereunder in the year 1956, here certify that the documents have been read over and made understood the contents of this documents after they signed and affixed their impression on this document along with the witnesses.

Hence I attest this document under my seal and signature in my office at Balaghat Dated.....

Balaghat (M.P.)

e.....

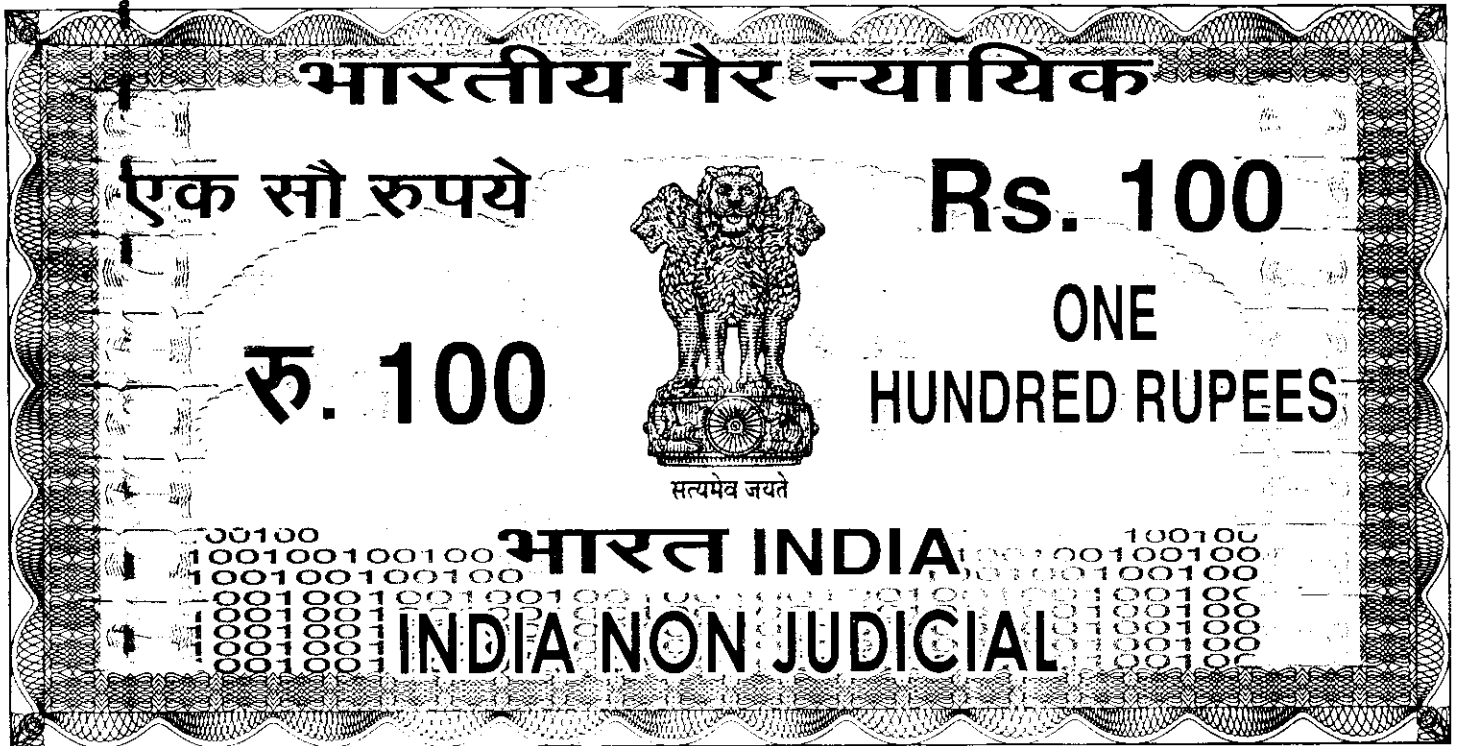
[Handwritten signature]

Notary
Yogesh Jain

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)

[Handwritten signature]
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

फरीन खान
स्ताम्प वैडर, बालाघाट



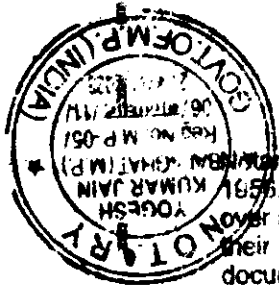
मध्य प्रदेश MADHYA PRADESH

CN 493341

UNDERTAKING – 8 (Clause No. 5.9)

Water Resources Division Balaghat (M.P.) is hereby undertaking prior approval shall be taken with NHAI before undertaking any work of installation, shifting of repairs of any alterations of Water pipeline/any other utility located in the NH ROW.

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)



CERTIFICATION

I Yogesh Jain, Notary Balaghat being empowered by the Notaries Act, 1952 and the rule made thereunder in the year 1955, here I certify that the contents of this document have been read over and made understood the contents of this document by the parties after they signed and affixed their impression on this document along with the witnesses.

Hence I prepared this document under my seal and signature in my office at Balaghat Dated.....

Balaghat (M.P.)

Yogesh Ji

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

वा.केता...
प...
म...

संव्यवहार के प्रकार :

भगोजन. २३/५५५४


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फर्रुखनगर
स्टाम्प वेंडर, बालाघाट



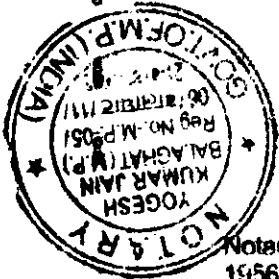
मध्य प्रदेश MADHYA PRADESH

CN 493350

UNDERTAKING – 9 (Clause No. 5.10)

Water Resources Division Balaghat (M.P.) is hereby undertaking expenditure if any incurred by NHAI for repairing any damage caused to the National Highway by the laying maintenance or shifting of water pipeline will be borne by the Water Resources Division Balaghat (M.P.).

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)



CERTIFICATION

I Yogesh Jain, Notary Balaghat being empowered by Notaries Act 1952 and the rule made this under in the year 1956, here I certify that the document have being read over and made understood the contents of this documents their after they signed I affixed the stamp impression on this document along with the witnesses.

Hence I attested this document under my seal and signature in my office at Balaghat. Dated.....

Balaghat (M.P.)

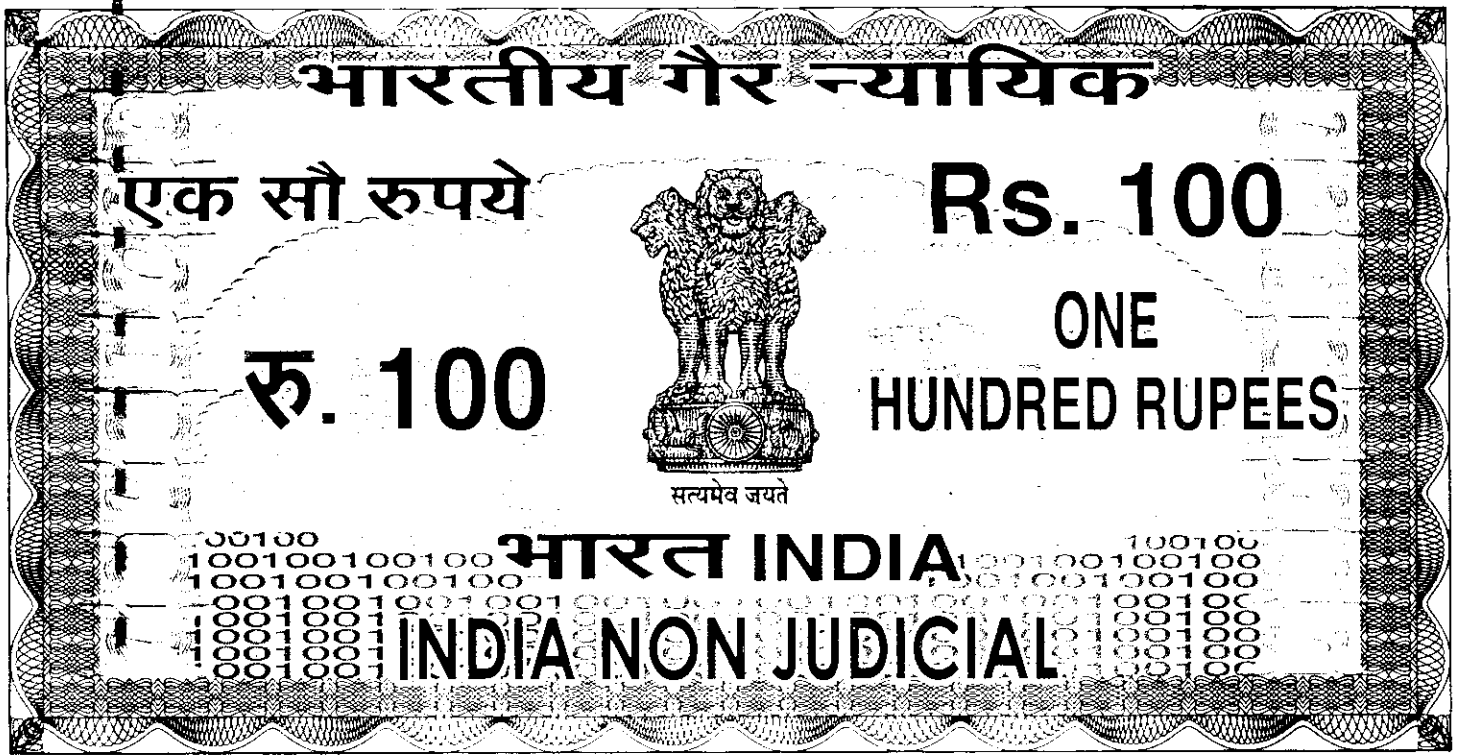
28/2/2020

Notary
Yogesh Jain

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

$$100\% = 100\%$$

परिनि साजी
स्टाम्प वेंडर, बालाघाट



मध्य प्रदेश MADHYA PRADESH

UNDERTAKING - 10 (Clause No. 5.11)

CN 493349

Water Resources Division Balaghat (M.P.) is hereby undertaking that if the NHAI considers necessary in future to move the utility line for the work of improvement or repairs to the road it will be carried out as desired by the NHAI at the cost of Water Resources Division Balaghat (M.P.) within reasonable time (Not exceeding time 60 days) of the intimation given.

Executive Engineer
Water Resources Survey Division
Balaghat (M.P.)



CERTIFICATION

I Yogesh Jain, Notary Balaghat being empowered by Notaries Act, 1956 and the rule made there under in the year 1956, hereby certify that the documents have been read over and made understood by the parties of this documents their after they signed and affixed their impression on this document along with the witnesses.

Hence I attested this document under my seal and signature in my office at Balaghat dated.....

Balaghat (M.P.)

Notary
Yogesh Jain

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

क्रमांक.....547.....दिनांक.....14/10/24.....स्टाम्प डि. 100/-
वा लेता.....~~रामचन्द्र प्रसाद~~ ~~पुनर्निर्माण~~ ~~वाटर~~ ~~सिमेंट~~ ~~मले~~
पता.....~~बाबू रामचन्द्र~~ ~~कामोनी~~ ~~सिमेंट~~ ~~रोड~~ ~~बालाघाट~~
वा.....~~मनोव~~ ~~पुनर्निर्माण~~
रामचन्द्र प्रसाद पुनर्निर्माण
ग्रामजन्.....~~पुनर्निर्माण~~ मले.....



100X1 = 100/- ~~पुनर्निर्माण~~
स्टाम्प केंद्र, बालाघाट



क्रमांक... ८५४... दिनांक 14/10/2024... स्टाम्प डि. 100/-
का केना... राजस्थान युनिवर्सिटी इंजिनियरिंग कॉलेज... बालाघाट
प... वा. क. नं. ३५... आसोना सिवनी रोड... बालाघाट
म... मन्नाच पवार
... स्टाम्प वेंडर के पते पर ...
भ्रमजन्... १५/१५/२४ ...

100 X 1 = 100/- 100/-
कृष्ण सोनी
स्टाम्प वेंडर, बालाघाट

[Signature]



मध्य प्रदेश MADHYA PRADESH

CN 493344

Enclosure to Ministry of Road Transport & Highways letter No.33044/29/2015 S&R(R) dated 22.11.2016

**AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS FOR LAYING UTILITY SERVICE
ON NATIONAL HIGHWAYS**

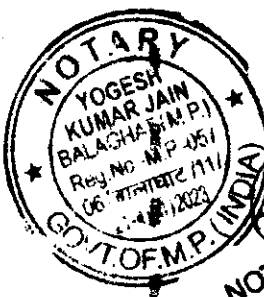
Agreement to lay Irrigation pipeline from 20.500km to 48.900 Km of NH-543 ROW land.

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 M/s WATER RESOURCES SURVEY DIVISION BALAGHAT (M.P.) a company registered under the Companies Act, 1956 and having its Registered Office at (hereinafter called the "Licensee") which expression shall unless excluded by repugnant to the context, include his successors/administrator assignees on the second part.

Whereas the Authority is responsible, inter-alia, for development and maintenance of lands in Km 20.500 to 48.900 of NH-543 Row.

Whereas the Licensee proposes to lay Irrigation pipeline/ducts etc. referred to as utility services in subsequent para.

Whereas the Licensee has applied to the Authority for permission to lay utility services from Km 20.500 to Km 48.900 of road/route up and whereas the Authority has agreed to grant such permission for way leave on the NH ROW as per terms and conditions here after mentioned.



Yogesh Jain
NOTARY, BALAGHAT (M.P.)

[Signature]
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

[Signature]
Assistant Engineer

National Highway 543 Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)

[Signature]
Executive Engineer
P. W. D. N. H. Division
JABALPUR

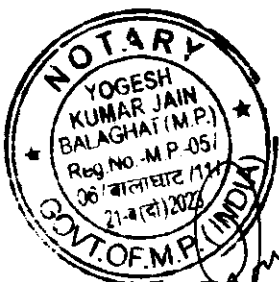
क्रमांक.....552 दिनांक 19-10/2021 स्टाम्प डि. 100/-
वा केता.....~~पुनर्जागरण~~ इंजिनियरिंग रिसोर्स सर्वे
पता.....~~आलमगढ़~~ कालोनी सिवनी रोड बालाघाट
प्र. ~~अतीष~~ पंचार
संव्यवहार के पक्षकार
प्रगोजन..... मत्व.....



100 X 1 = 100/- ~~कराव~~
स्टाम्प बंडर, बालाघाट

Now this agreement is witnessed that in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permission to lay utility services as per the approved drawing attached here to subject to the following conditions, namely.

1. ROW permissions are only enabling in nature. The purpose of extending the way leave facility on the National Highway ROW is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No Licensee shall claim exclusive right on the ROW and any subsequent user will be permitted to use the ROW, either above or below, or by the side of the utilities laid by the first user, subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfilment of technical requirements shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging finance, project management, obtaining regulatory approvals & necessary clearances, supply of equipment, material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/ industrial infrastructure facilities.
4. The Licensee shall pay license fees @ Rs/Sq m/month to the Authority. The License fee shall become payable from the date of handing over of ROW land to the Licensee, for laying of utilities/cables/conduits/pipelines for infrastructure/ service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In the case of renewal, the rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
6. The present policy of the MORT&H is to provide a 2.00 m wide utility corridor on either side of the extreme edge of ROW. In cases where utility ducts subject to technical requirements being fulfilled.
7. The utility services shall be laid at the edge of the ROW. In case of restricted width of ROW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains, other roadside furniture etc. The utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangements as assessed by the Authority shall be payable by the Licensee.



Yogesh Jain
NOTARY, BALAGHAT (M.P.)

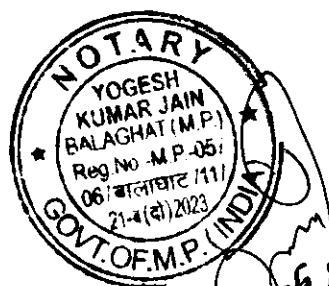
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer

National Highway 543 Mandla
Dist. N. H. Div. Jabalpur (M.P.)

Executive Engineer
P. W. D. N. H. Division
JABALPUR

9. In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 meter below the ground level. However, any structure above ground shall be aesthetically provided for landscaped with required safety measures as directed by the concerned Authority.
11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing/conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
12. Existing drainage structures shall not be allowed to carry the lines across.
13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level -whichever is lower, subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cm wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
- Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
 - The backfill shall be completed in two stages (i) Side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
 - The side fill shall consist of granular material laid in 15 cm. Layers are each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
 - The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.



Yogesh Jain
NOTARY, BALAGHAT (M.P.)

[Signature]
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

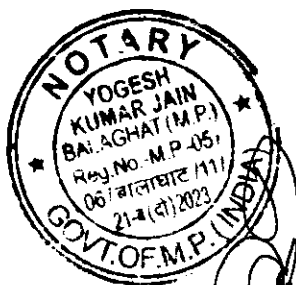
[Signature]
Executive Engineer
P.W.D. N.H. Division
JABALPUR

[Signature]
Assistant Engineer

National Highway 543 Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)

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Sub Gr

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



Yogesh Jain
NOTARY, BALAGHAT (M.P.)

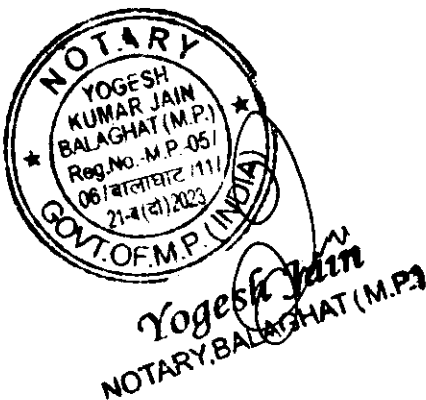
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer

National Highway, J.W. Mandla
P.W.D. N.H. Div. Jabalpur (M.P.)

Executive Engineer
P. W. D. N. H. Division
JABALPUR

25. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the Authority.
28. The licensee shall indemnify the concern agency in co-ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.
31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in co-ordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land /property, other than what is herein expressly granted. No use of NH RoW will be permitted for any purpose other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty charged on this Agreement.

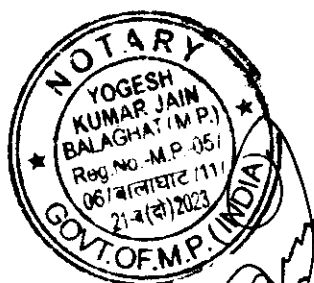


[Signature]
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

[Signature]
Assistant Engineer
National Highway 543 Mandla
P.W.D. N.H. Div. Jabalour (M.P.)

[Signature]
Executive Engineer
P. W. D. N. H. Division
JABALPUR

35. Three copies of 'as laid drawings of utilities (hard and soft copies) with geo- tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the Site at all times to the authorised representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:
- a) Operation, repair and maintenance guidelines given by the manufacturers.
 - b) The requirements of Law.
 - c) The physical conditions at the Site and
 - d) The safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Licensee.
41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the ROW.
42. Any disputes in interpretation of the terms and conditions of this Agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.



Yogesh Jain
NOTARY, BALAGHAT (M.P.)

Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

Assistant Engineer
National Highway 543 Mandla
W.R.D. N.H. D. Jabalpur (M.P.)

Executive Engineer
P. W. D. N. H. Division
JABALPUR

43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaires, MORT&H/ NHAI implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement has been made in duplicate, each on a Stamp Paper. Each party to this Agreement has retained one stamped copy each.

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

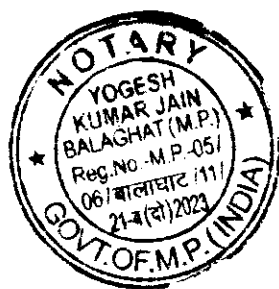
SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY BY
SHRI.....

Executive Engineer
P. W. D. N. H. Division
JABALPUR
.....(LICENSEE)

SIGNED ON BEHALF OF
M/S.....

BY SHRI.....

(Signature, name & address with stamp)



CERTIFICATION

I Yogesh Jain, Notary Balaghat being empowered by Notaries Act, 1952 and the rule made this under in the year 1956, here I certify that the document have being read over and made understood the contents of this documents their after they signed / affixed thumb impression on this document along with the witnesses

Hence I attested this document under my seal and signature in my office at Balaghat Dated.....

balaghat (M.P.)

16/12/2023

Notary
Yogesh Jain

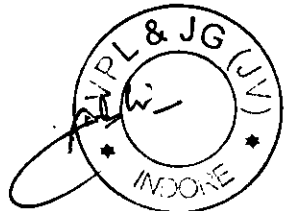
Executive Engineer
Water Resources Survey

WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)

Lamta Pressurized Pipe Irrigation Network (Hose System) Project

NH543 Road Crossing Details

Sr. No.	Command Area	Road Name		Type & Dia of Pipe		Length (m)	No. of Crossings	Road Chainage	Crossing Co-ordinate	Remark
		From	To	Carrier Pipe	Casing Pipe					
1	North	Nainpur	Balaghat	HDPE Pipe 280mm	MS Pipe 400mm	18	1	20.5 KM	22°16'02.0"N 80°07'16.0"E	
2	North	Nainpur	Balaghat	HDPE Pipe 225mm	MS Pipe 350mm	18	1	23.9 KM	22°14'20"N 80°07'26"E	
3	North	Nainpur	Balaghat	HDPE Pipe 225mm	MS Pipe 350mm	18	1	24.9 KM	22°14'00"N 80°07'48"E	Near Pankaj DJ and Kirana Store
4	North	Nainpur	Balaghat	MS Pipe 900mm	MS Pipe 1100mm	18	1	25.5 KM	22°13'44"N 80°08'02"E	
5	North	Nainpur	Balaghat	HDPE Pipe 160mm	MS Pipe 300mm	18	1	26.5 KM	22°13'16"N 80°08'00"E	
6	North	Nainpur	Balaghat	HDPE Pipe 160mm	MS Pipe 300mm	18	1	27.5 KM	22°12'44"N 80°08'02"E	Near Atul Sonwane Store
7	North	Nainpur	Balaghat	HDPE Pipe 225mm	MS Pipe 350mm	18	1	28.1 KM	22°12'44"N 80°08'00"E	
8	North	Nainpur	Balaghat	HDPE Pipe 180mm	MS Pipe 300mm	18	1	29.2 KM	22°11'55"N 80°07'48"E	Near Haightway Dhaba
9	South	Nainpur	Balaghat	HDPE Pipe 110mm	MS Pipe 250mm	18	1	38.1 KM	22°07'22"N 80°07'44"E	
10	South	Nainpur	Balaghat	HDPE Pipe 125mm	MS Pipe 250mm	18	1	39 KM	22°07'00"N 80°07'27"E	
11	South	Nainpur	Balaghat	MS Carrier 800mm	MS Pipe 1000mm	18	1	39.5 KM	22°07'47"N 80°07'17"E	
12	South	Nainpur	Balaghat	HDPE Pipe 110mm	MS Pipe 250mm	18	1	39.9 KM	22°06'34"N 80°07'15"E	
13	South	Nainpur	Balaghat	HDPE Pipe 125mm	MS Pipe 250mm	18	1	41.4 KM	22°05'47"N 80°07'12"E	
14	South	Nainpur	Balaghat	HDPE Pipe 125mm	MS Pipe 250mm	18	1	43.3 KM	22°04'51"N 80°06'56"E	
15	South	Nainpur	Balaghat	HDPE Pipe 180mm	MS Pipe 300mm	18	1	44.2 KM	22°04'29"N 80°07'19"E	
16	South	Nainpur	Balaghat	DI Pipe 400mm	MS Pipe 600mm	18	1	45.5 KM	22°03'56"N 80°07'35"E	
17	South	Nainpur	Balaghat	HDPE Pipe 110mm	MS Pipe 250mm	18	1	46 KM	22°03'46"N 80°07'44"E	
18	South	Nainpur	Balaghat	HDPE Pipe 225mm	MS Pipe 350mm	18	1	48.5 KM	22°02'35"N 80°08'07"E	
19	South	Nainpur	Balaghat	HDPE Pipe 125mm	MS Pipe 250mm	18	1	48.9 KM	22°02'14"N 80°08'05"E	



PROJECT-MANAGER
TIRAJ VENTURES PVT LTD
LAMTA-BALAGHAT (M.P.)

EXCUTIVE ENGINEER
Water Resources Survey
Division Balaghat (M.P.)
BALAGHAT (M.P.)

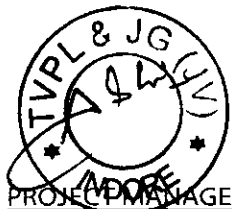
Director, Bureau of
Geographical Names
U.S. Department of the Interior

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WATER RESOURCES DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
National Highway 543 Crossing Details

TOWARDS NAINPUR																			TOWARDS BALAGHAT	
		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.
		Proposed HDPE Pipeline 280mm ϕ CH - 20.5 KM MS Casing Pipe 400mm	Proposed HDPE Pipeline 225mm ϕ CH - 23.9 KM MS Casing Pipe 350mm	Proposed HDPE Pipeline 225mm ϕ CH - 24.9 KM MS Casing Pipe 350mm	Proposed MS Pipeline 900mm ϕ CH - 25.5 KM MS Casing Pipe 1100mm	Proposed HDPE Pipeline 160mm ϕ CH - 26.5 KM MS Casing Pipe 300mm	Proposed DI Pipeline 160mm ϕ CH - 27.5 KM MS Casing Pipe 300mm	Proposed HDPE Pipeline 225mm ϕ CH - 28.1 KM MS Casing Pipe 350mm	Proposed HDPE Pipeline 180mm ϕ CH - 29.1 KM MS Casing Pipe 300mm	Proposed HDPE Pipeline 110mm ϕ CH - 38.1 KM MS Casing Pipe 250mm	Proposed HDPE Pipeline 1.25mm ϕ CH - 39 KM MS Casing Pipe 250mm	Proposed MS Pipeline 800mm ϕ CH - 39.5 KM MS Casing Pipe 1000mm	Proposed HDPE Pipeline 110mm ϕ CH - 39.9 KM MS Casing Pipe 250mm	Proposed HDPE Pipeline 125mm ϕ CH - 41.4 KM MS Casing Pipe 250mm	Proposed HDPE Pipeline 125mm ϕ CH - 43.3 KM MS Casing Pipe 250mm	Proposed HDPE Pipeline 180mm ϕ CH - 44.2 KM MS Casing Pipe 300mm	Proposed DI Pipeline 400mm ϕ CH - 45.5 KM MS Casing Pipe 600mm	Proposed HDPE Pipeline 110mm ϕ CH - 46 KM MS Casing Pipe 250mm	Proposed HDPE Pipeline 225mm ϕ CH - 48.5 KM MS Casing Pipe 350mm	Proposed HDPE Pipeline 125mm ϕ CH - 48.9 KM MS Casing Pipe 250mm

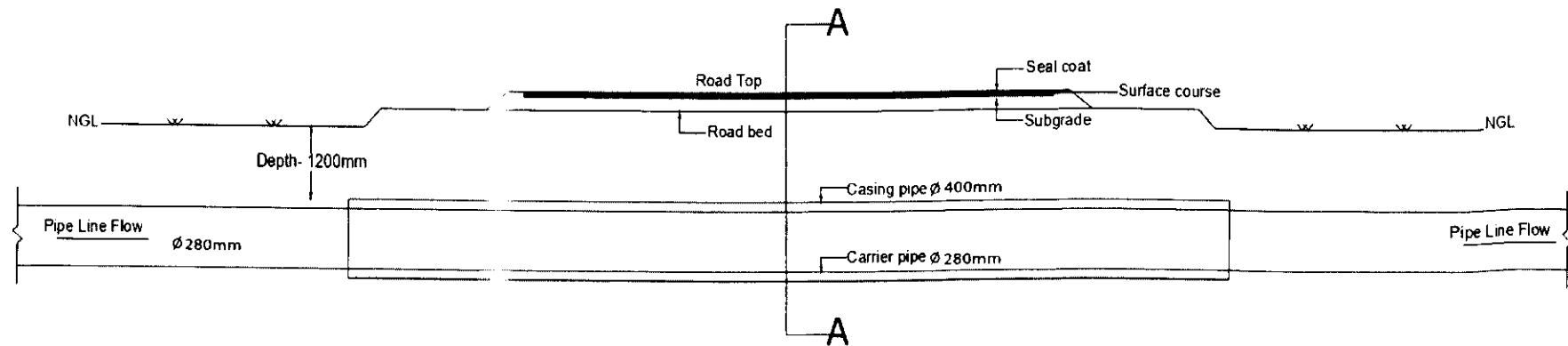


PROJECT MANAGER
TRIRAJ VENTURES PVT LTD
LAMTA-BALAGHAT (M.P.)

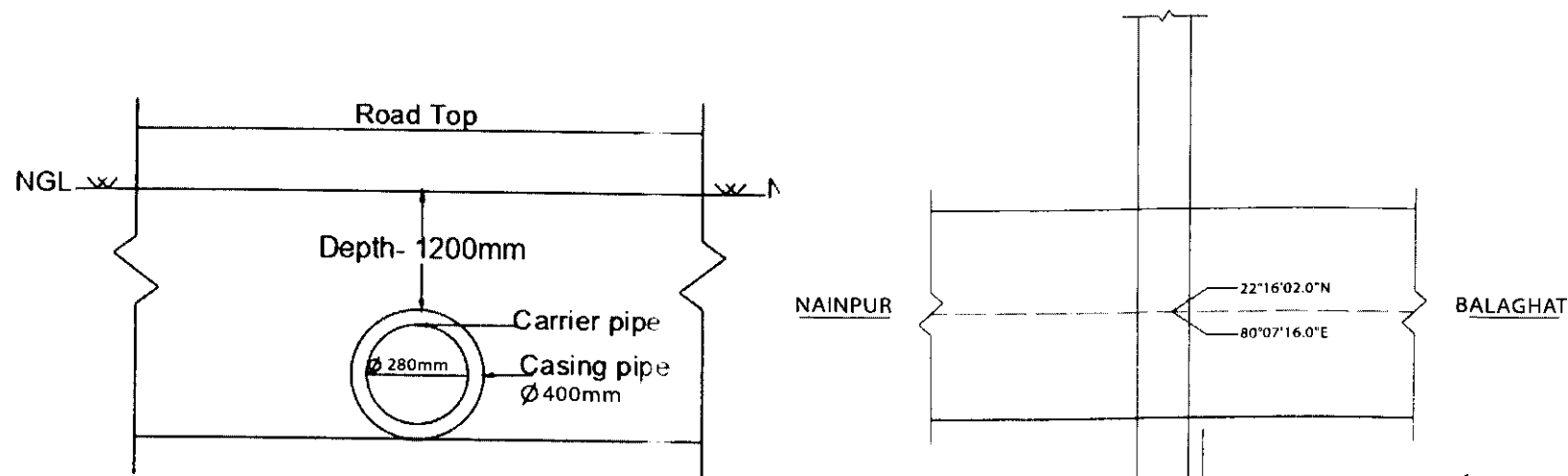
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Water Resources Survey
Division Balaghat (M.P.)
BALAGHAT (M.P.)

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FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

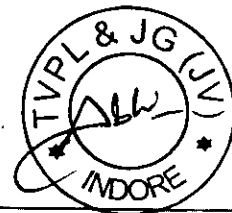
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A



PLAN

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Division Balaghat (M.P.)

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Method Statement for Pipe Laying Work

Method Statement for Pipe Laying: -

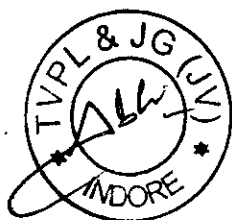
Excavation:


- ❖ Before starting excavation, area should be assessed that no underground utilities are present at Row.
- ❖ Trench excavation minimum distance 1 meter, or as per available space from toe point of road to Pipeline C/C.
- ❖ The width of the trench at bottom shall be not less than 150 mm clearance (Pipe OD + 150 mm) on either side of the pipe. We shall keep cover depth minimum 1.2 metre as suggested by CPHEEO manual or GOI manual.
- ❖ All the excavation materials shall be stacked in such a distance of at least 600mm away from the trench edge.
- ❖ Maintain the trench free of water during the pipe laying. Trench excavation details are given in the below table.

Safety Precautions:-

We shall keep safety protections at the time of laying as mentioned below

- ❖ Contact with Roadways/ highways operations Team.
- ❖ Drainage – Care will be taken in utility installing to avoid disturbing.
- ❖ We shall care for the tree to protect deforestation.
- ❖ Crossing will be done away from the electric line/telephone line/ existing water line/sewerage line to avoid the miss happening.
- ❖ HSE, Safe work method shall be strictly followed while excavation of work, necessary safety PPEs should be arranged & toolbox talk shall be conducted prior to start any new activity in order to create awareness to the work.




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Given Safety Norms shall be followed for sub activity in Pipe Laying.

Before Starting the work following compliances should be checked.

- ❖ All workers are gone through pre-employment process (screening, medical & EHS Induction Training).
- ❖ All workmen are complying the basic PPEs rule.
- ❖ Constructional vehicle engages gone through pre-deployment inspection (P&M inspection tag, tagged on construction machineries).
- ❖ To protect person from injury and to avoid damage to property adequate brricades, construction signs and guards are required, shall be placed and maintained during the process of construction work and until it is safe for traffic to use the roadways.
- ❖ Any materials shall not be dumped at carriage way/pathway.

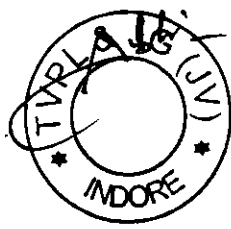
Method Statement for Pipeline Crossing:-


1. Method of Pipeline Crossing:-

The pipeline crossing shall be done by the Trenchless method. The HDD (Horizontal Directional Drilling) is a method of installing underground pipeline through trenchless methods. It involves the use of a directional drilling machine, and associated attachments, to accurately drill along the chosen bore path and back ream the required pipe.

2. Cover of the Pipeline:-

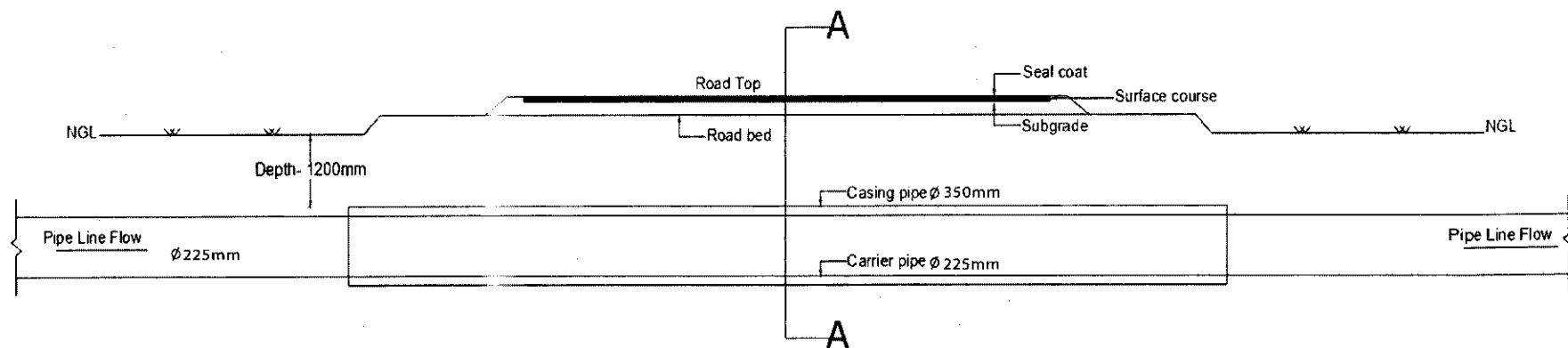
The depth of cover for a pipeline crossing is most critical at the low point of the highway section. The greater the depth of cover the less critical need for additional protection. We shall keep cover depth minimum 1.2 meter as suggested by CPHEEO manual or GOI manual.



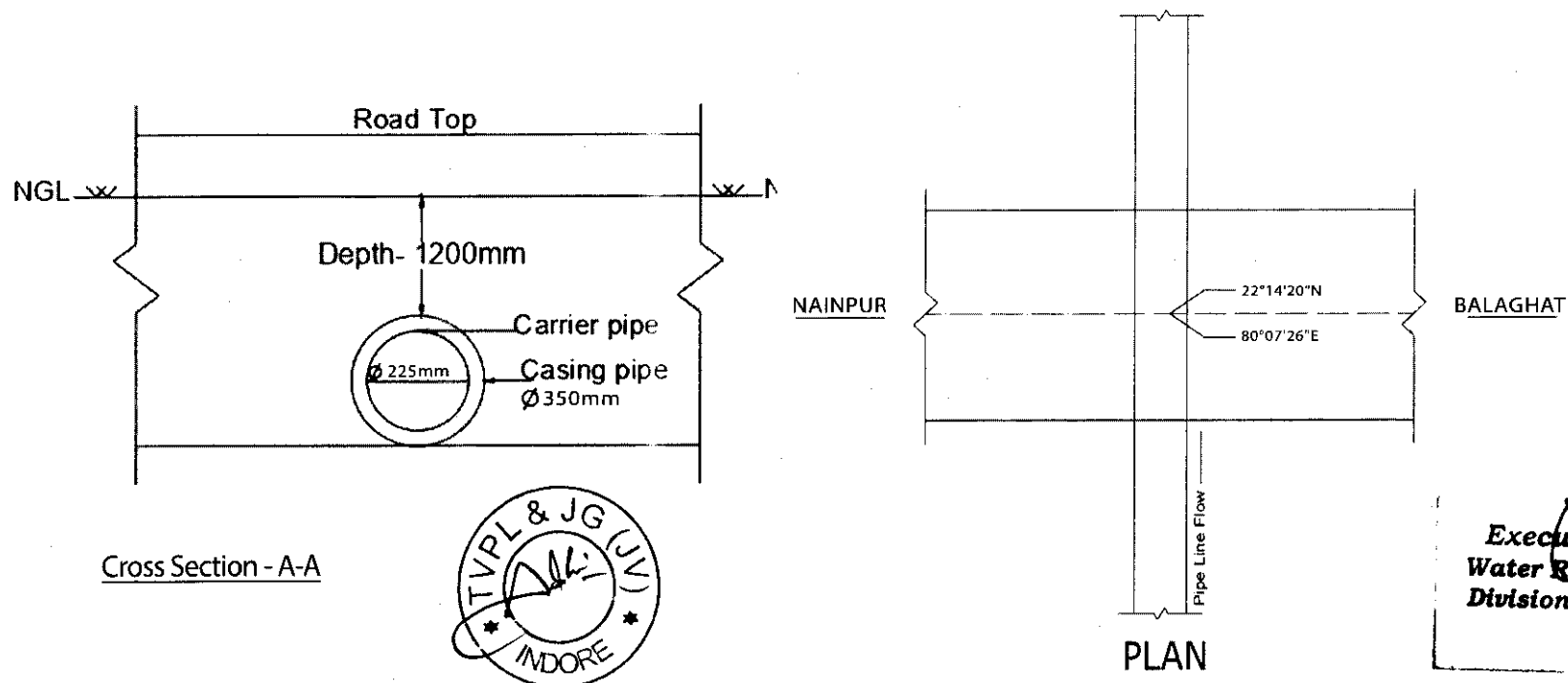

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WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A



PLAN

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1. 1990年12月25日，在“九七”香港回归前，香港各界人士纷纷发表文章，就香港前途问题提出自己的看法。

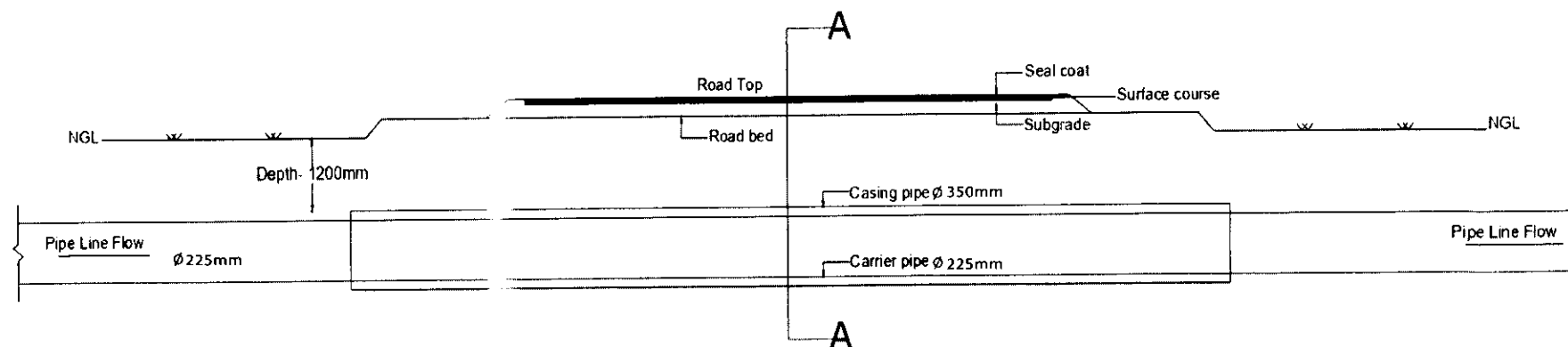
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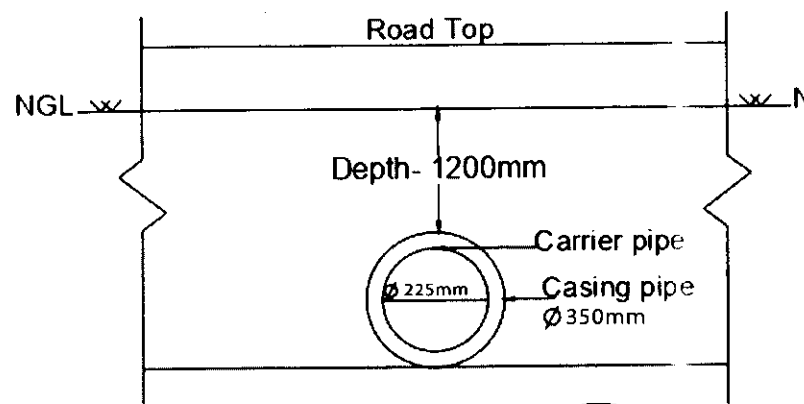
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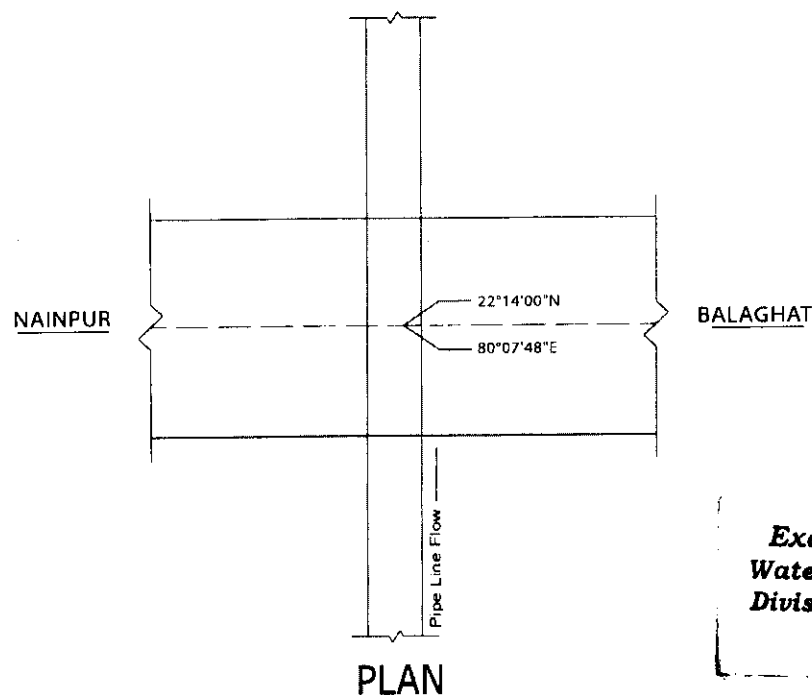
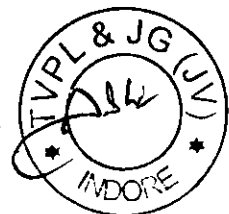
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

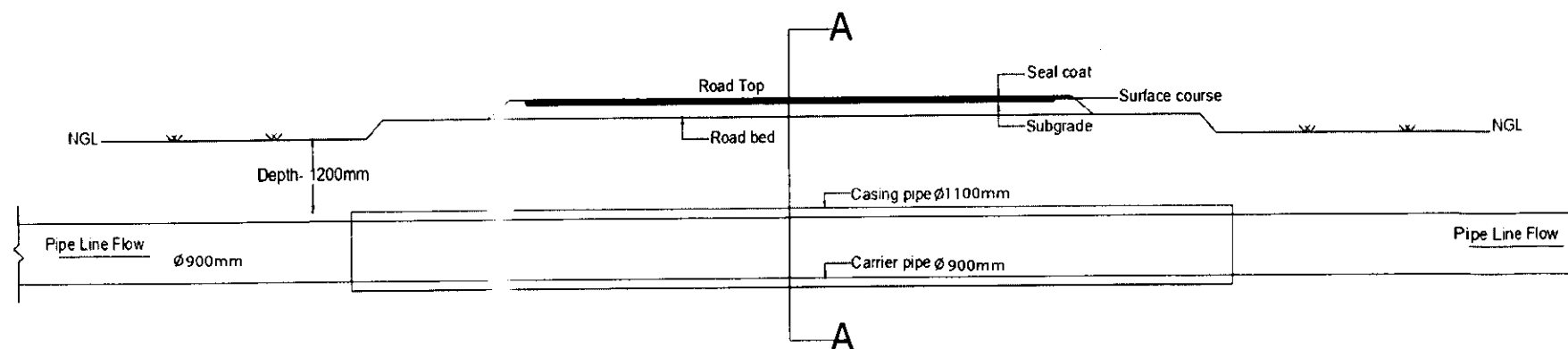


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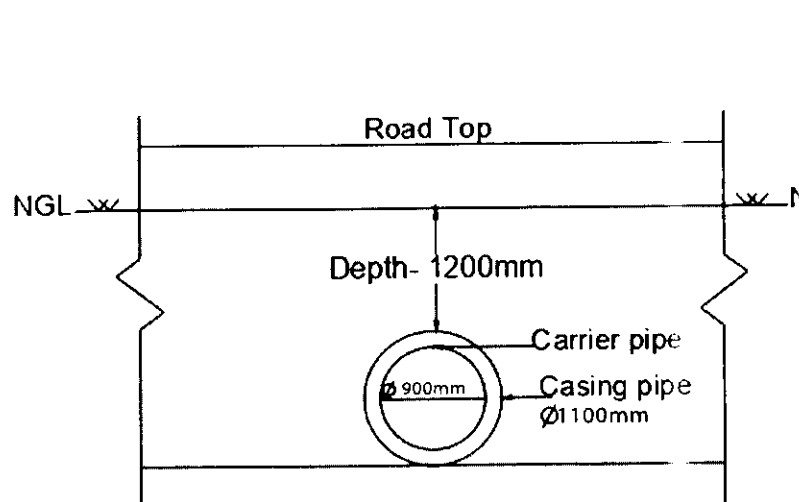
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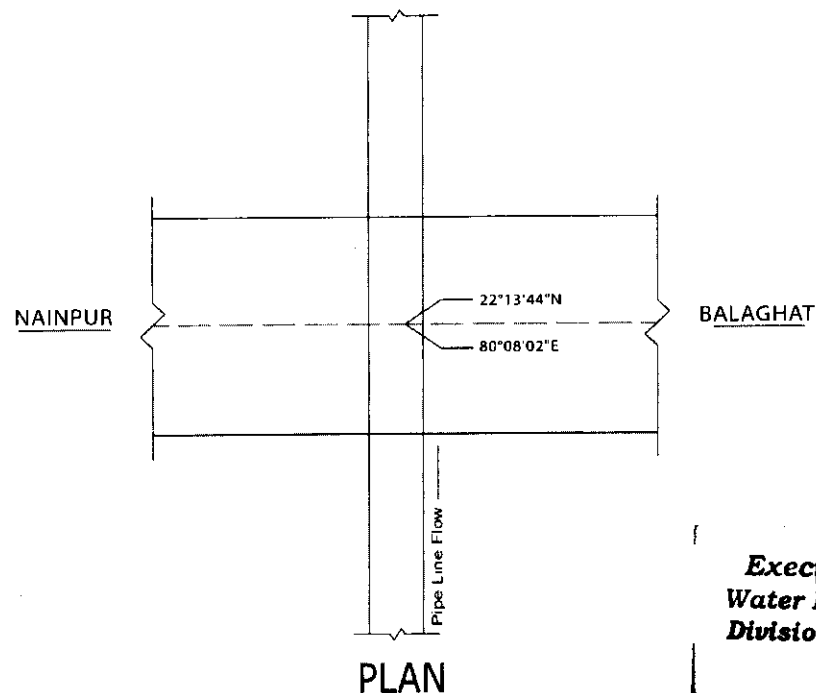
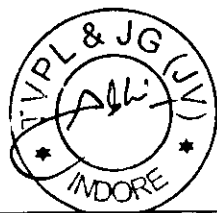
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

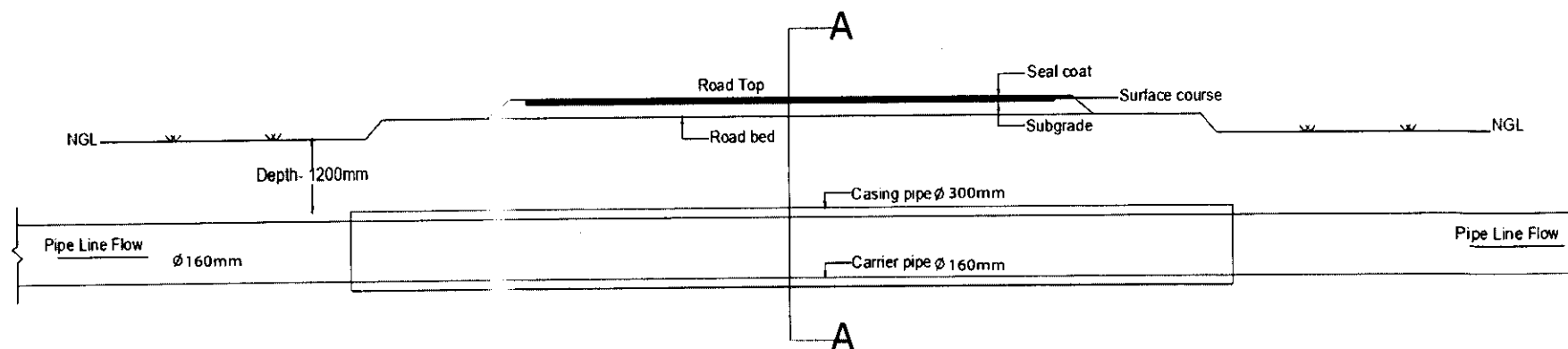


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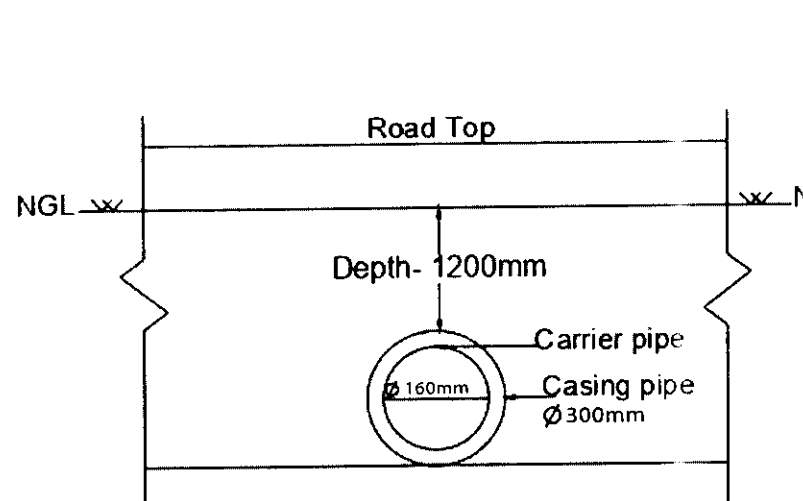
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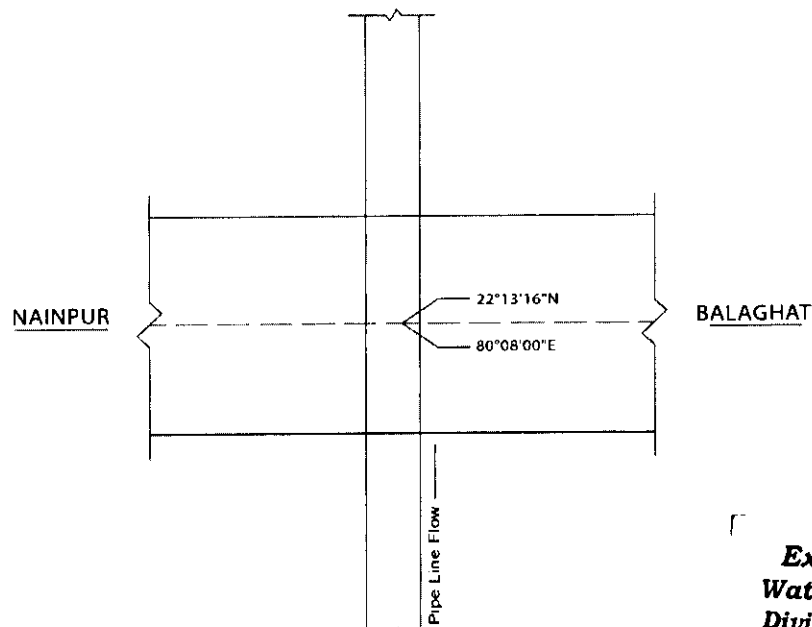
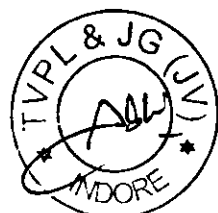
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



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Cross Section - A-A

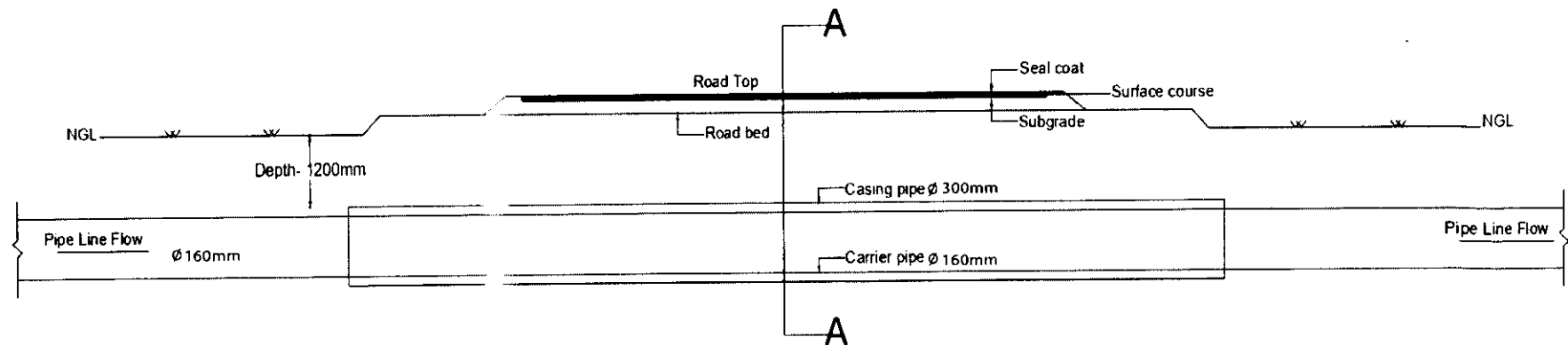


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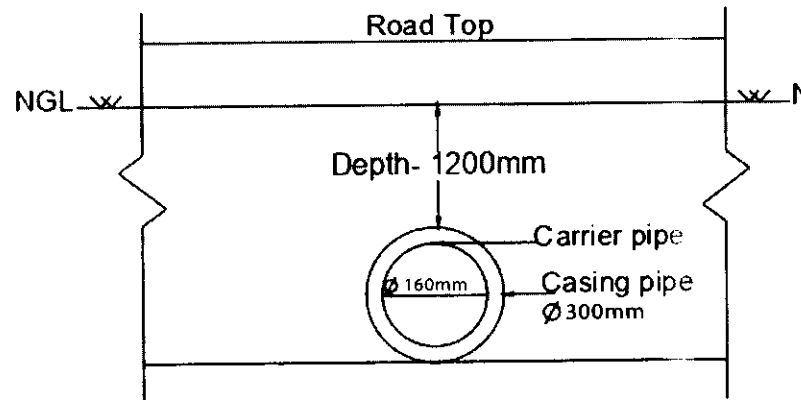
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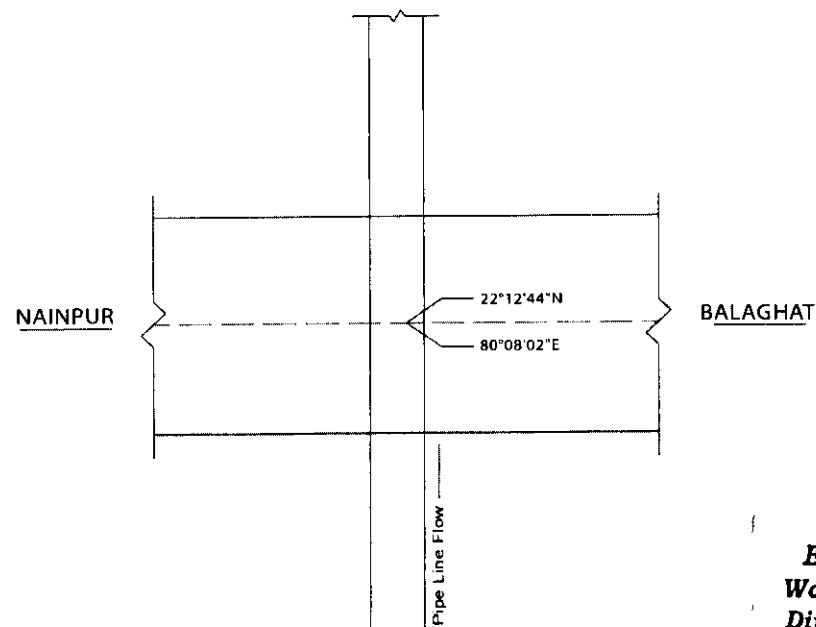
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



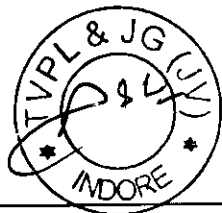
ELEVATION



Cross Section - A-A



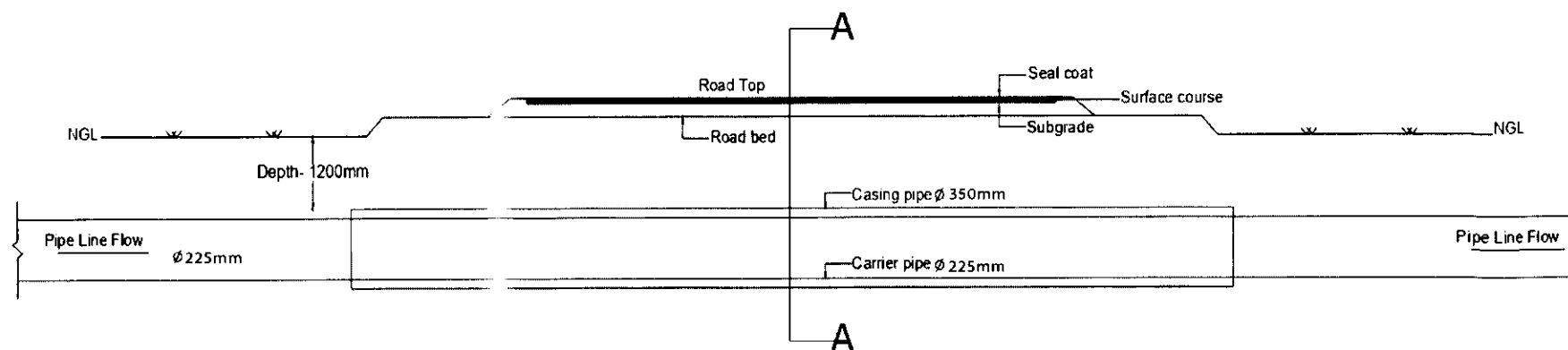
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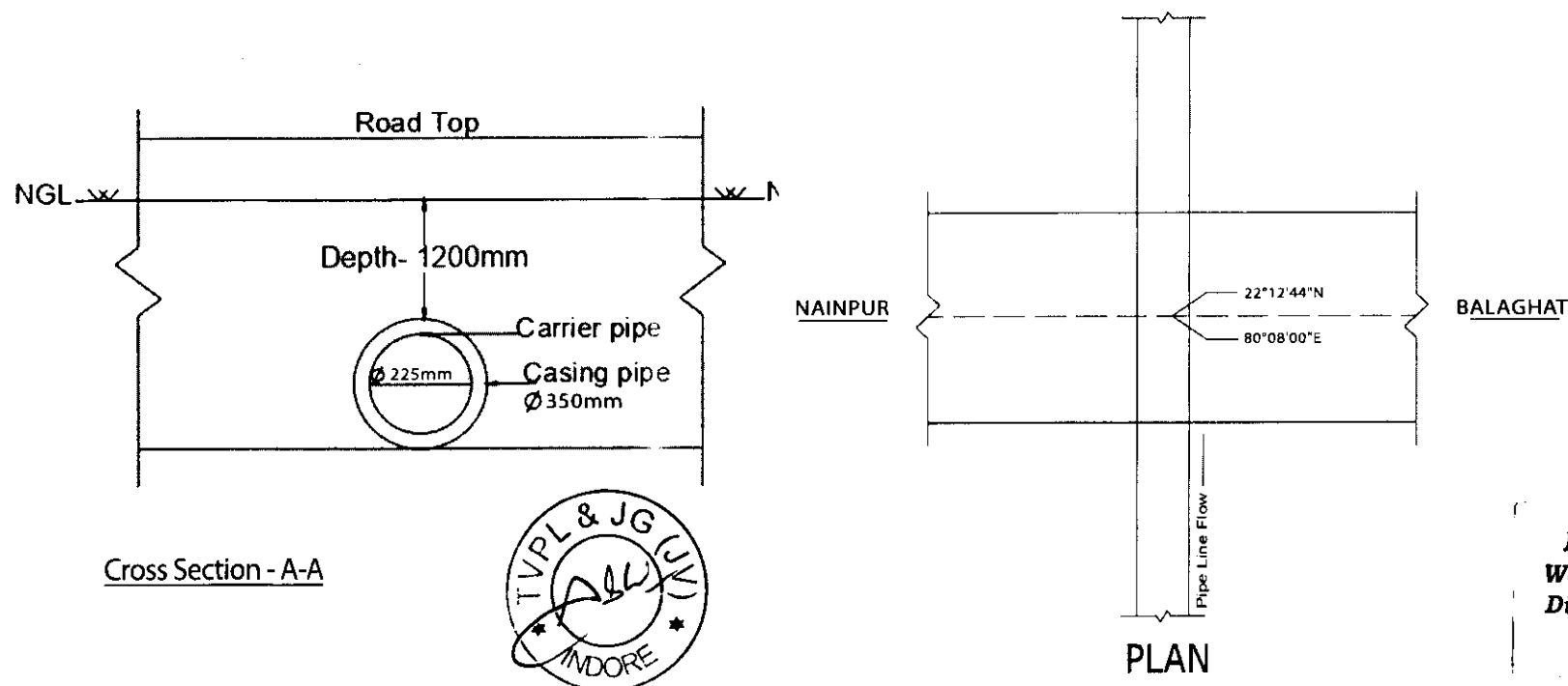
Executive Engineer
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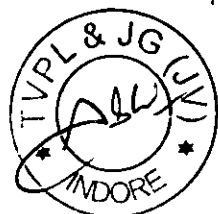
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



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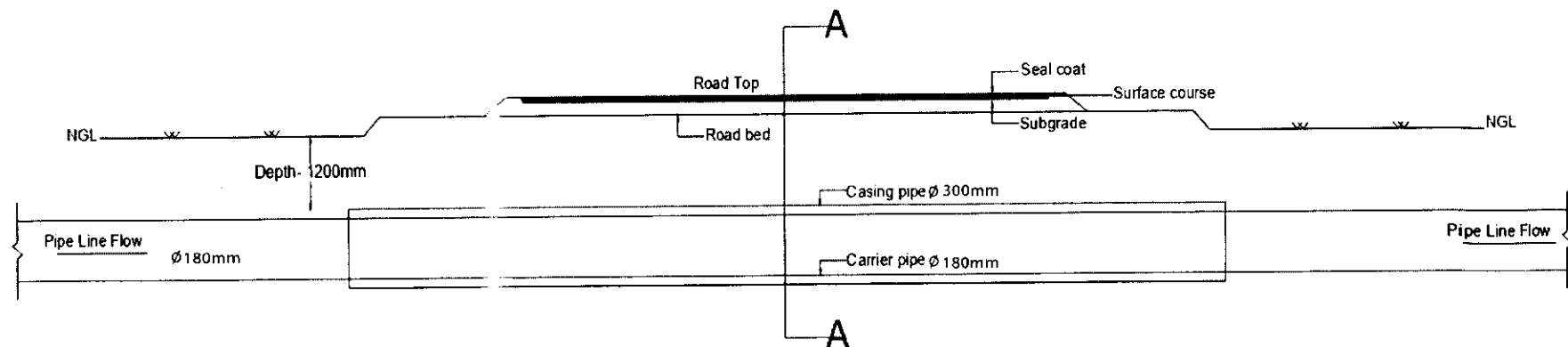


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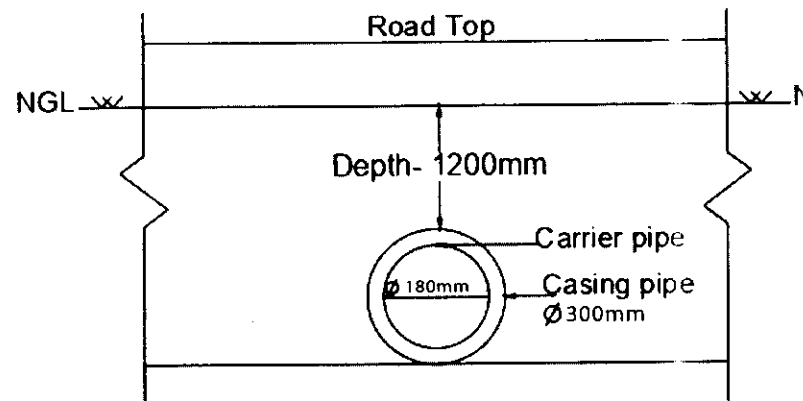
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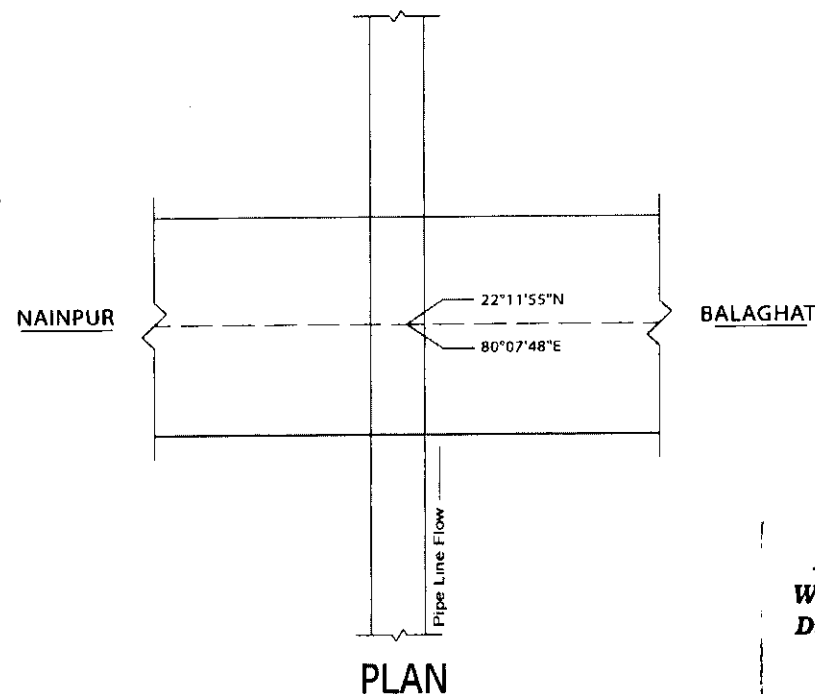
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

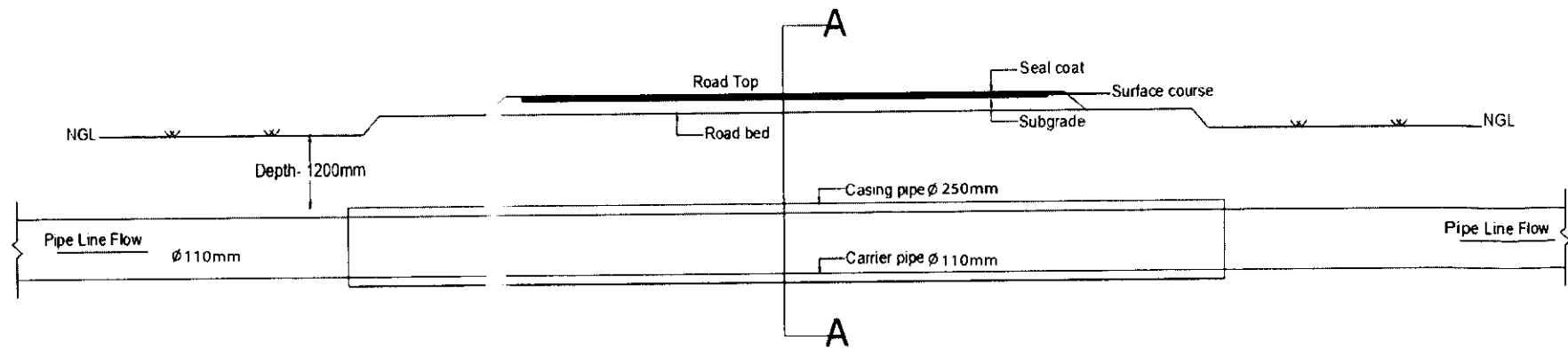


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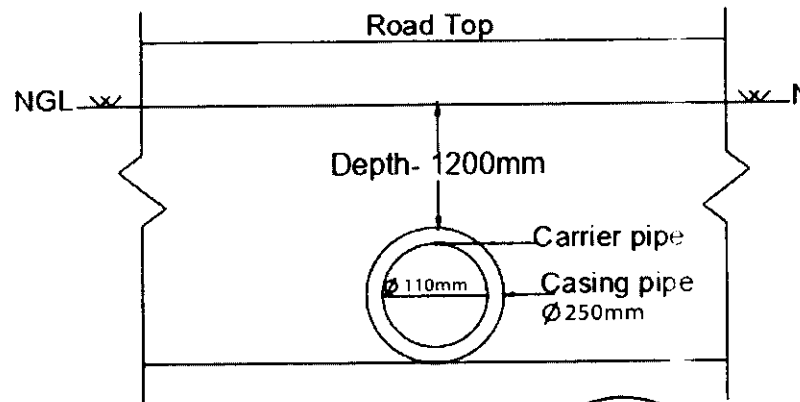
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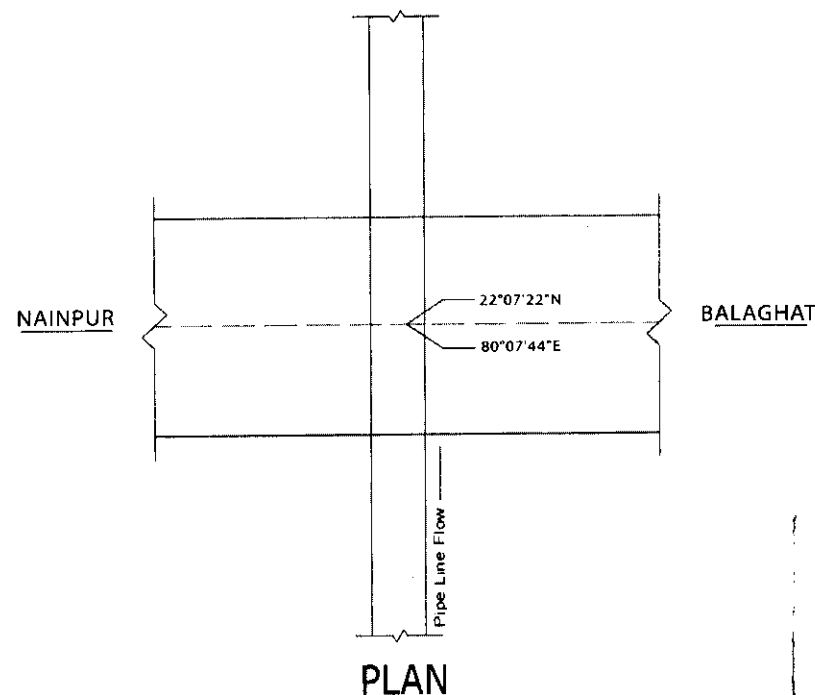
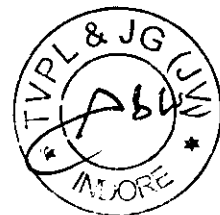
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LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



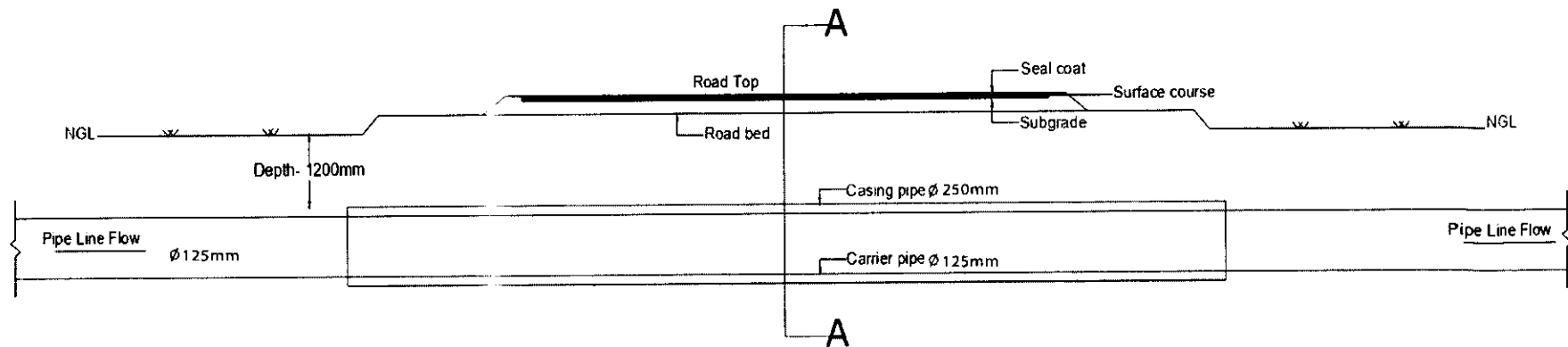
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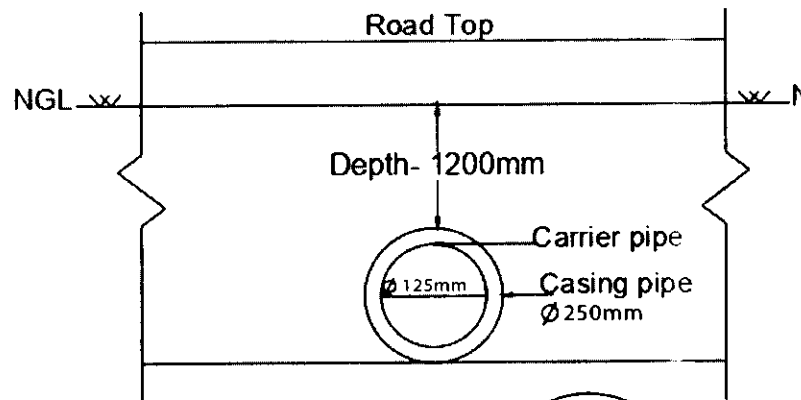
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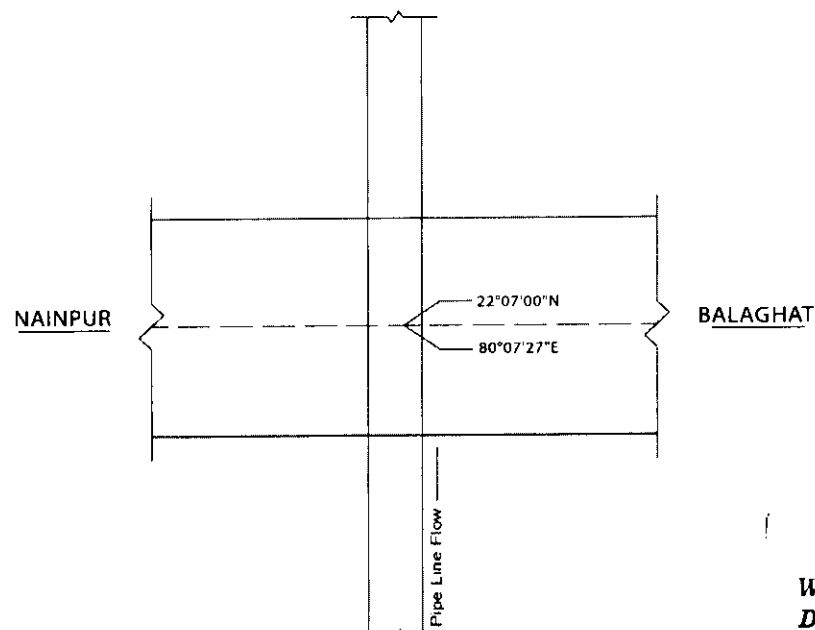
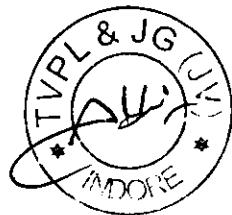
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



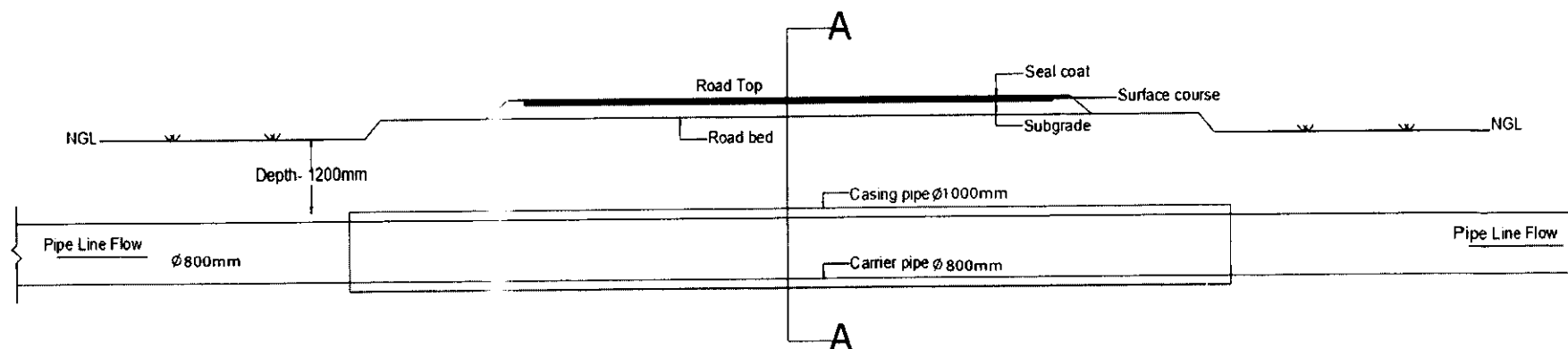
Cross Section - A-A



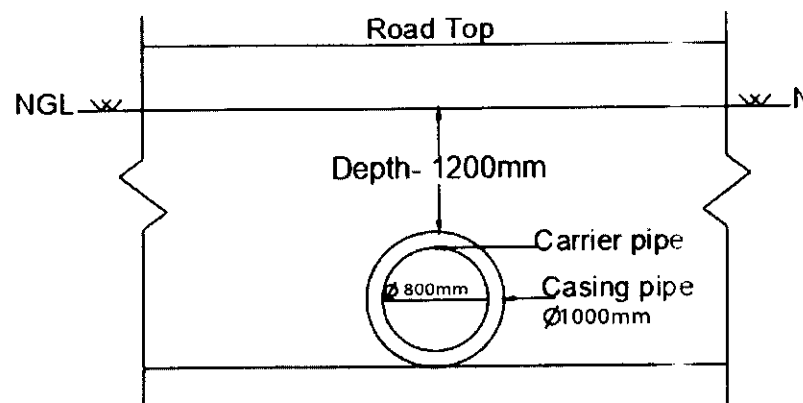
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Division Balaghat (M.P.)

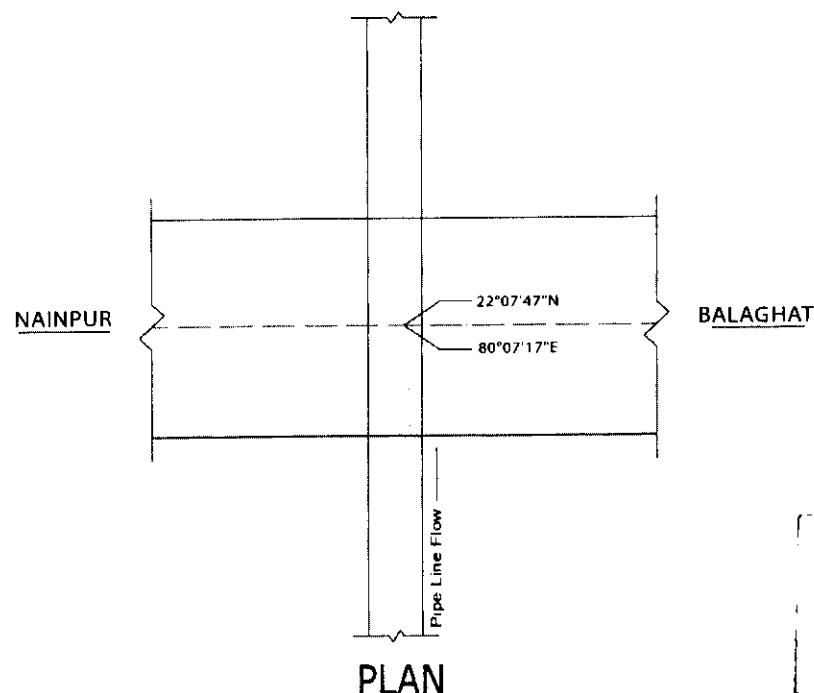
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

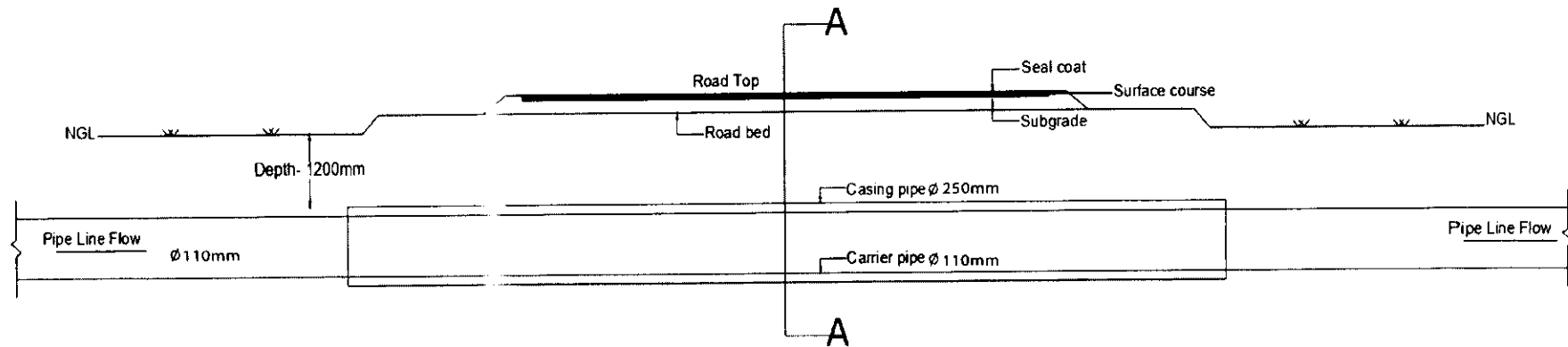


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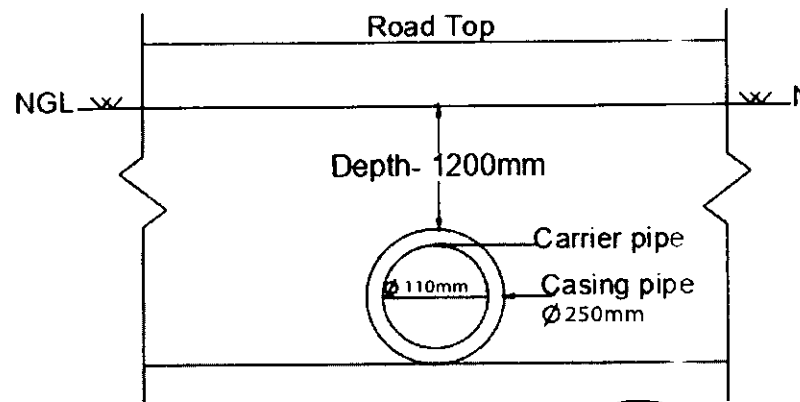
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

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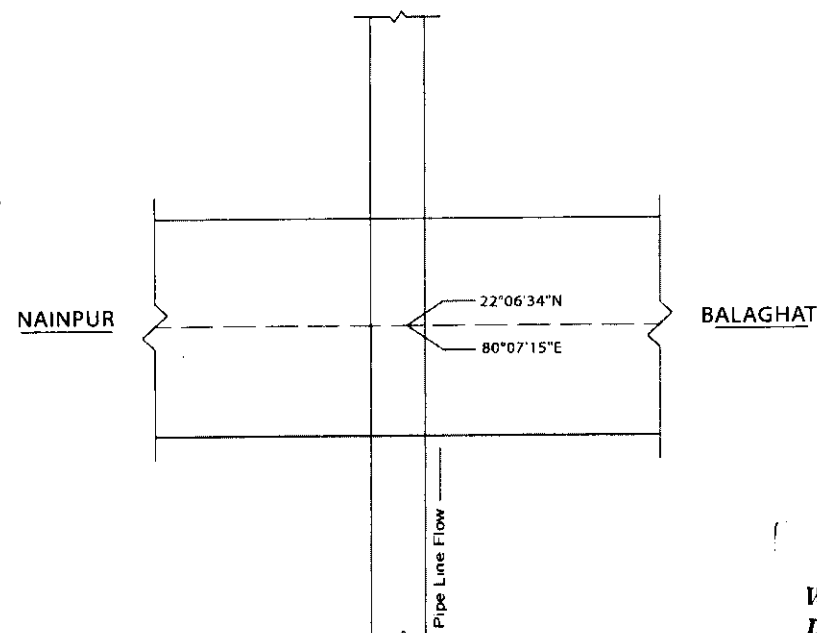
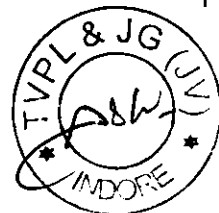
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NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

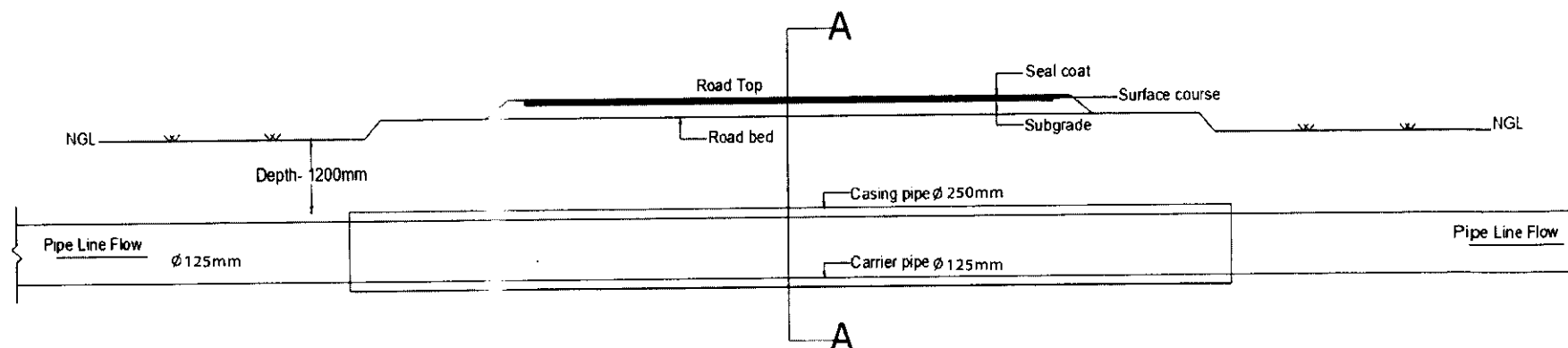


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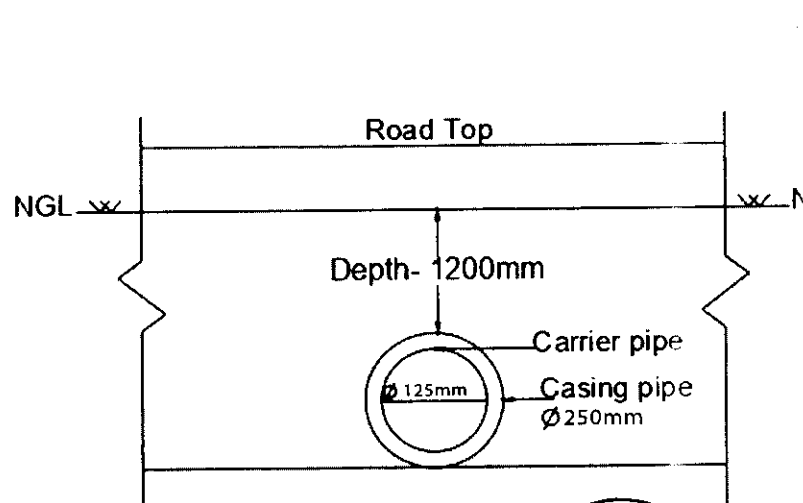
Executive Engineer
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Division Balaghat (M.P.)

13.

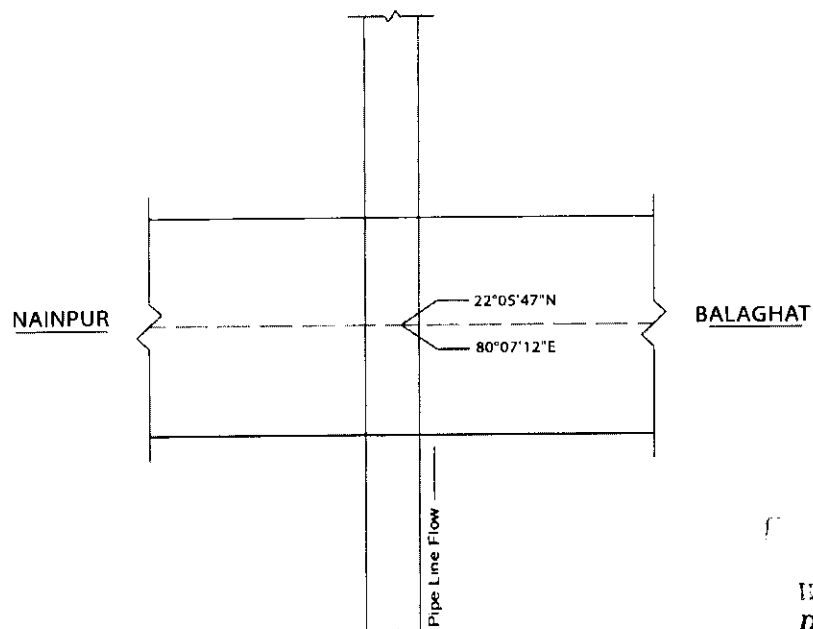
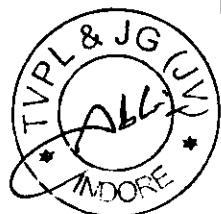
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

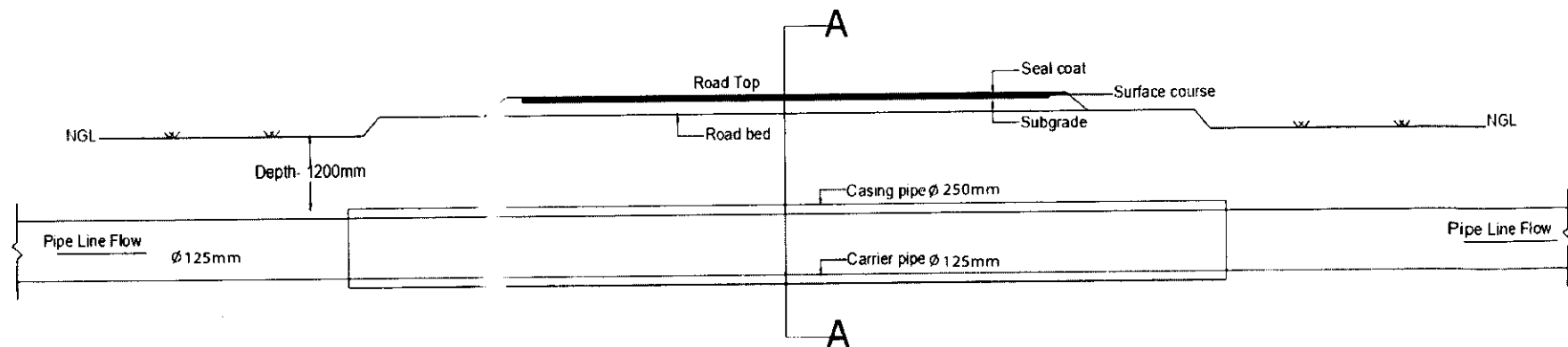


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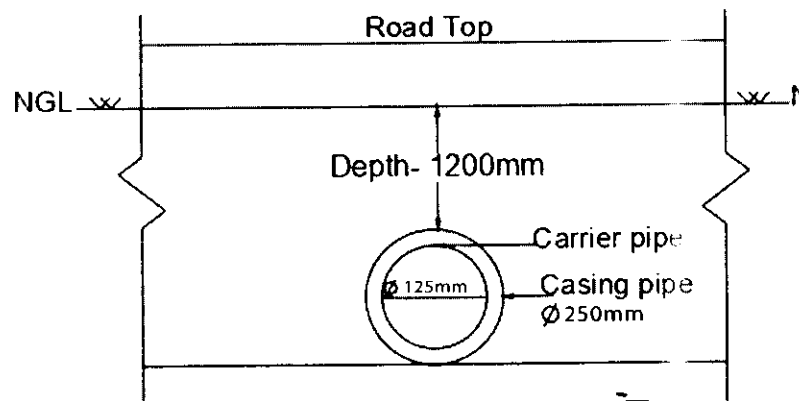
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

14.

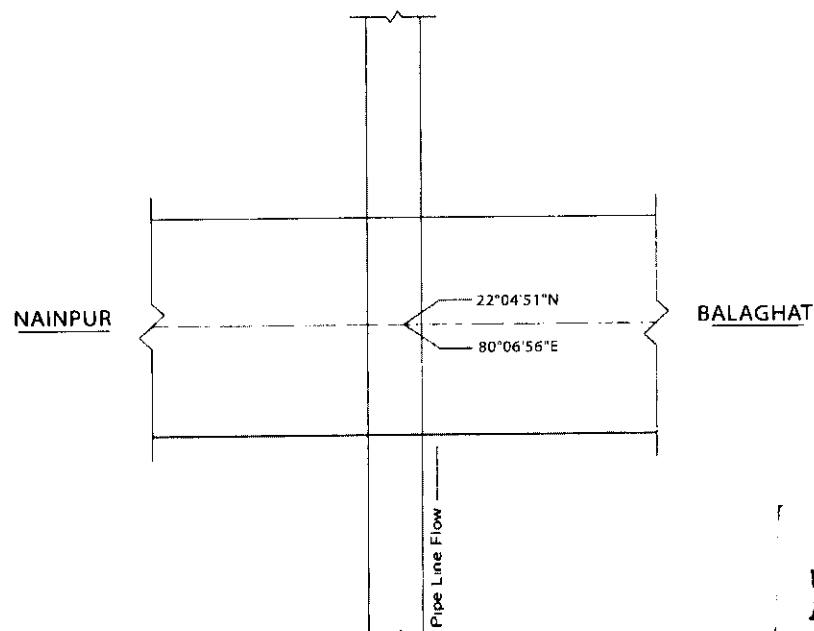
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



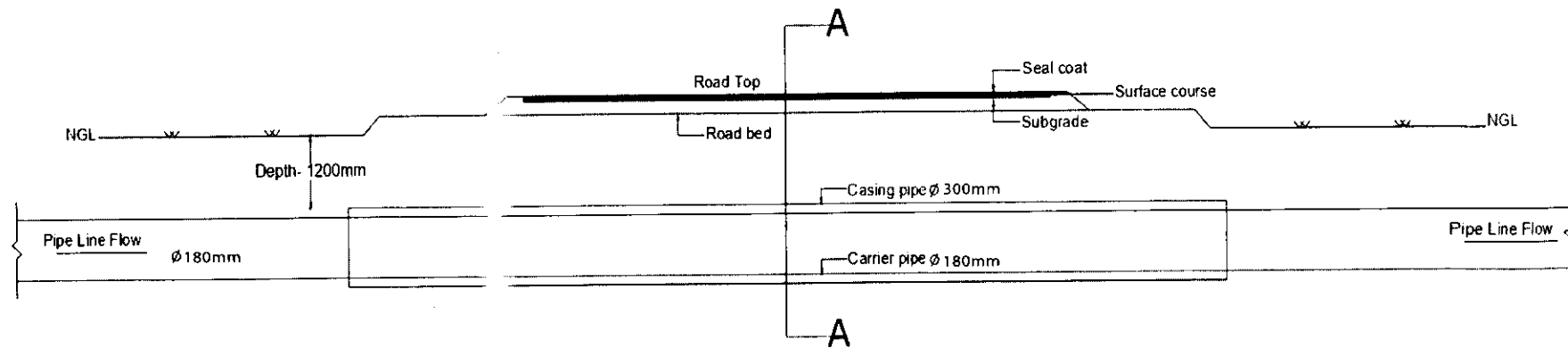
Cross Section - A-A



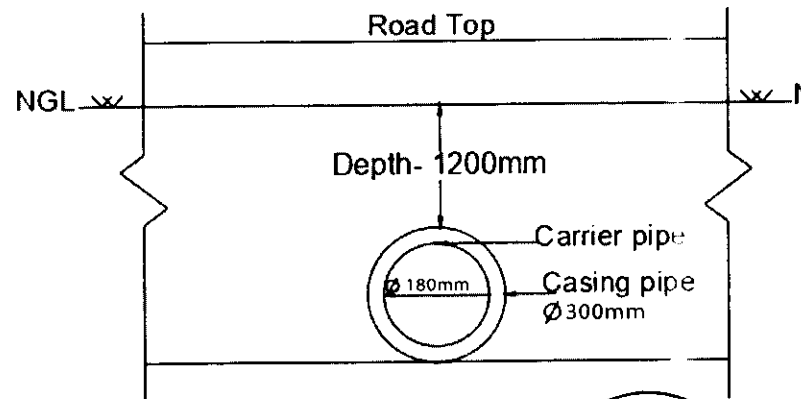
PLAN

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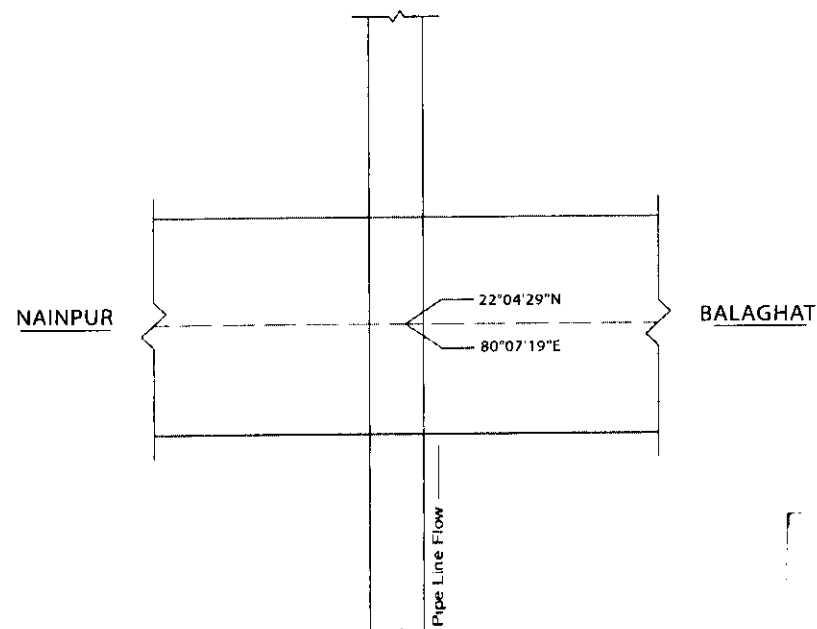
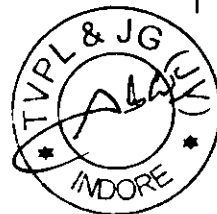
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



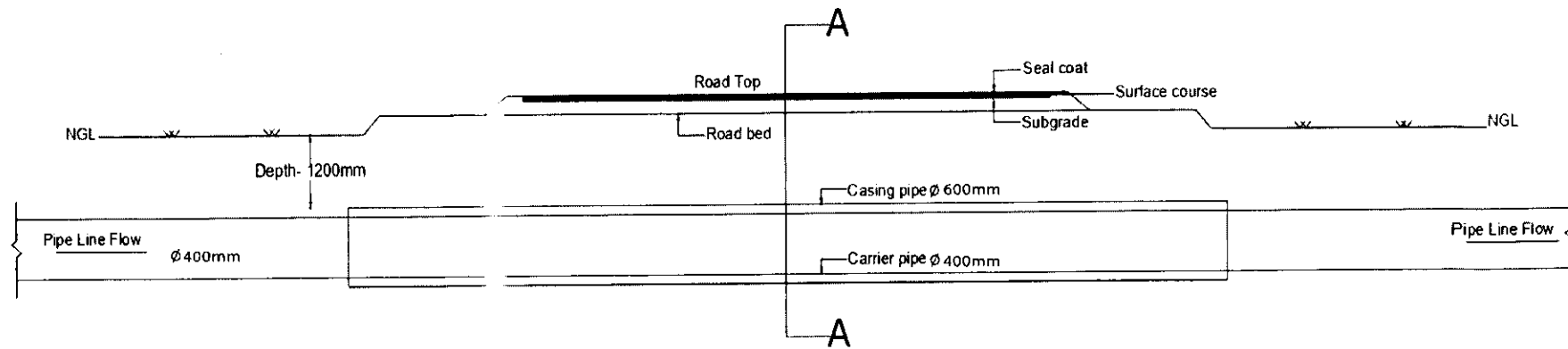
Cross Section - A-A



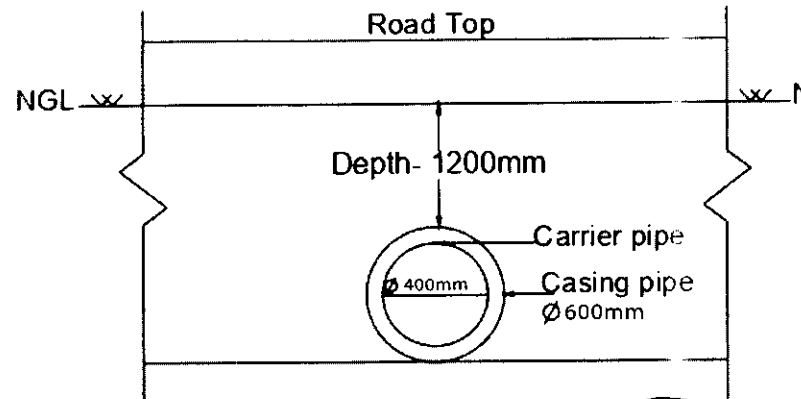
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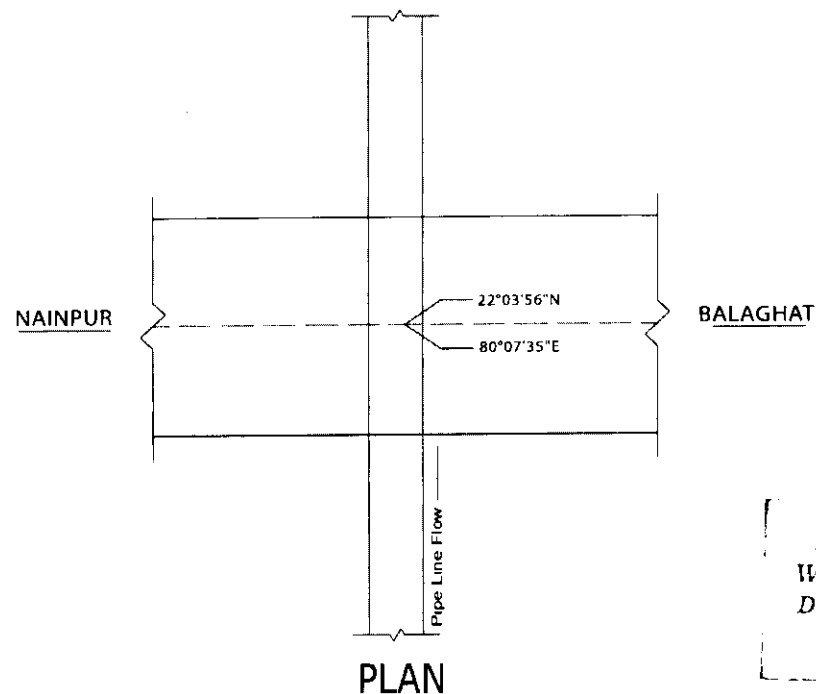
WATER RESOURCE DEPARTMENT BALAGHAT M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



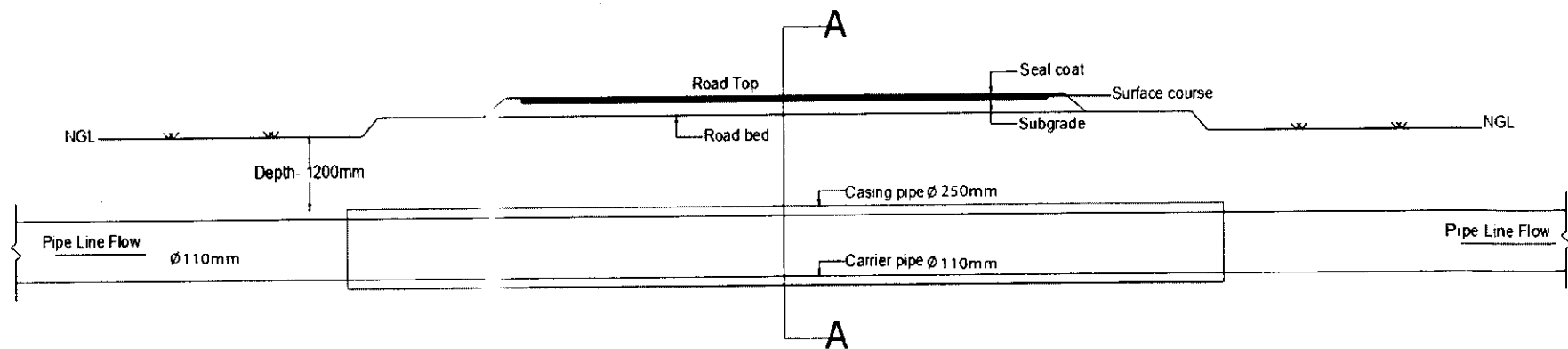
Cross Section - A-A



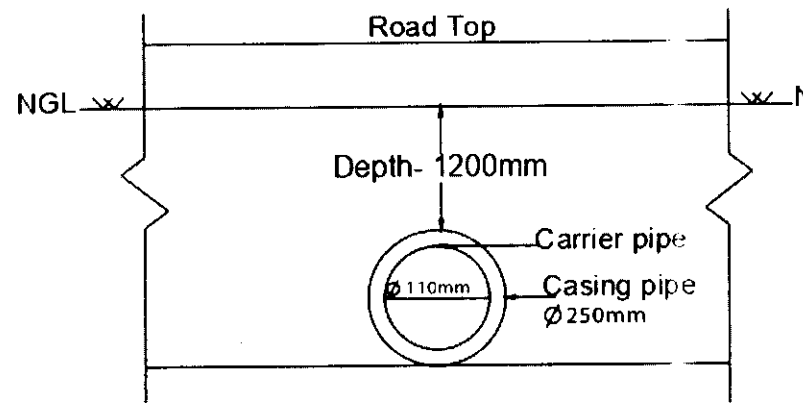
Executive Engineer
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WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)

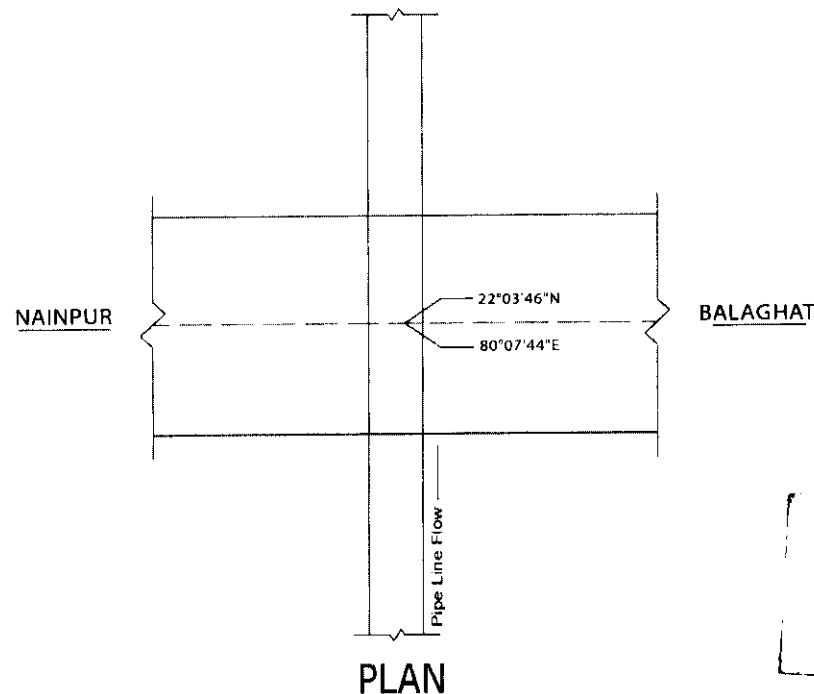
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



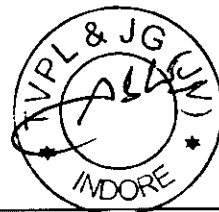
ELEVATION



Cross Section - A-A



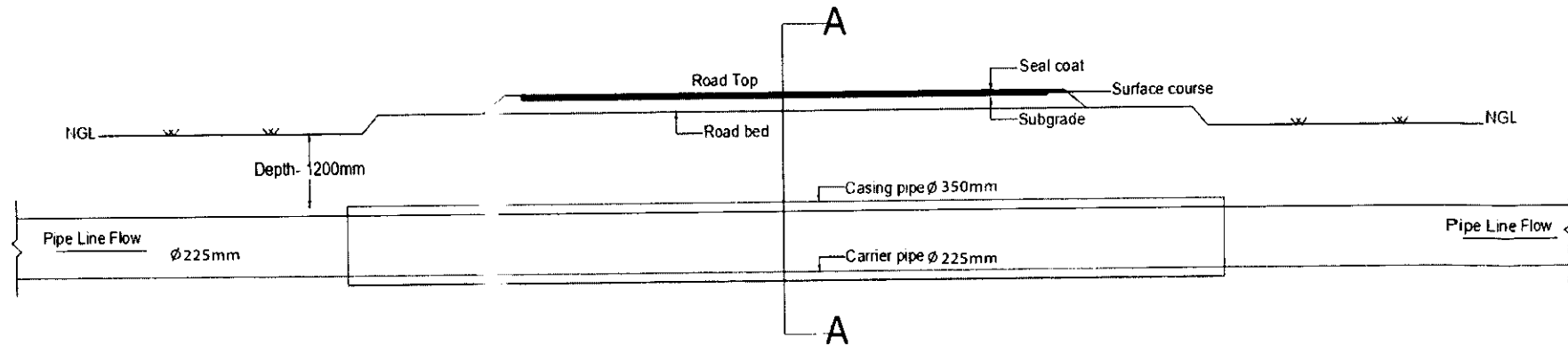
PLAN



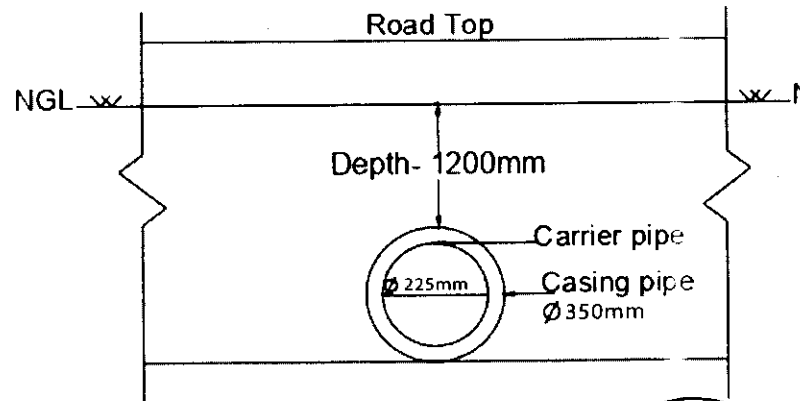
Executive Engineer
Water Resources Survey
Division Balaghat (M.P.)

18.

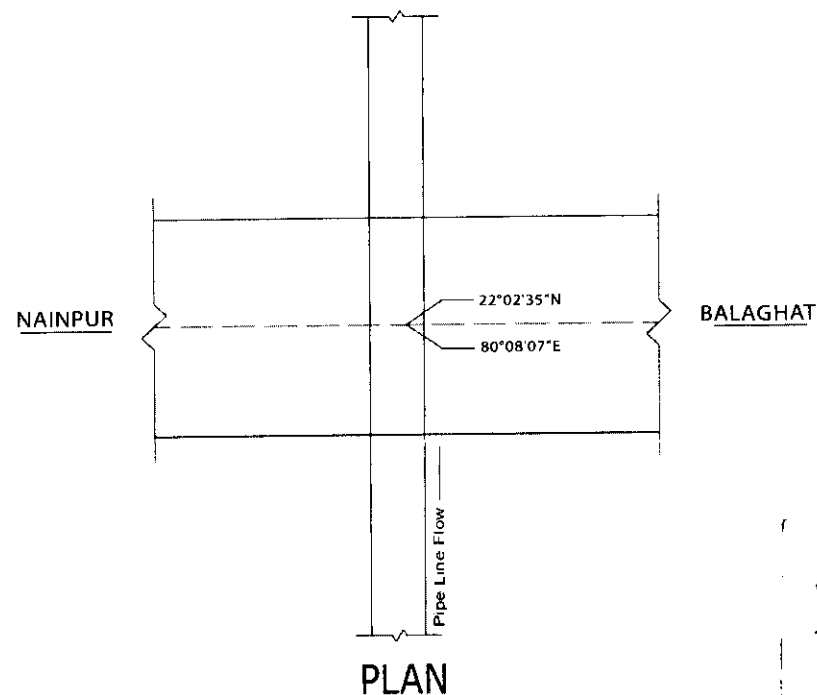
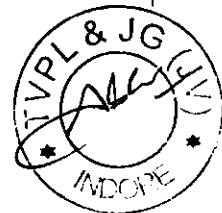
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A

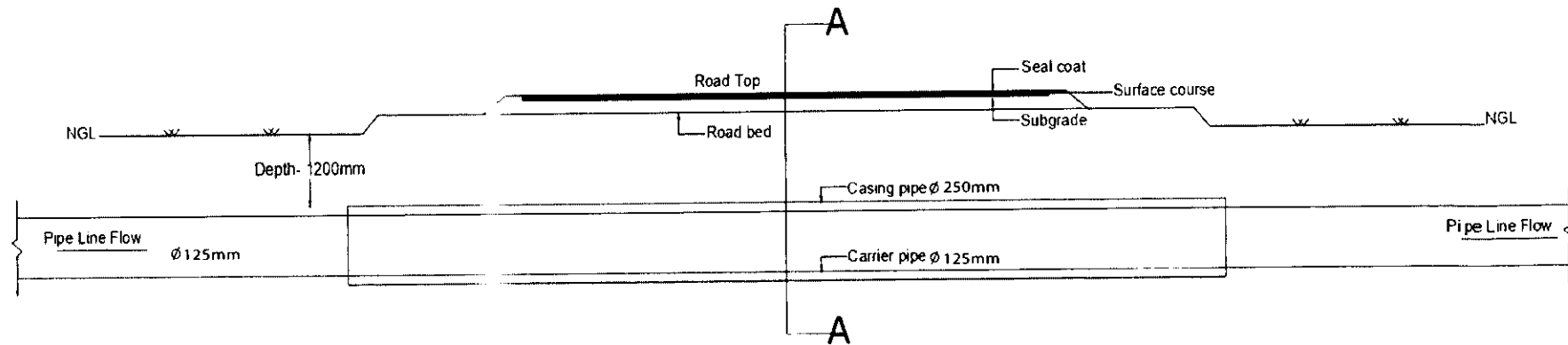


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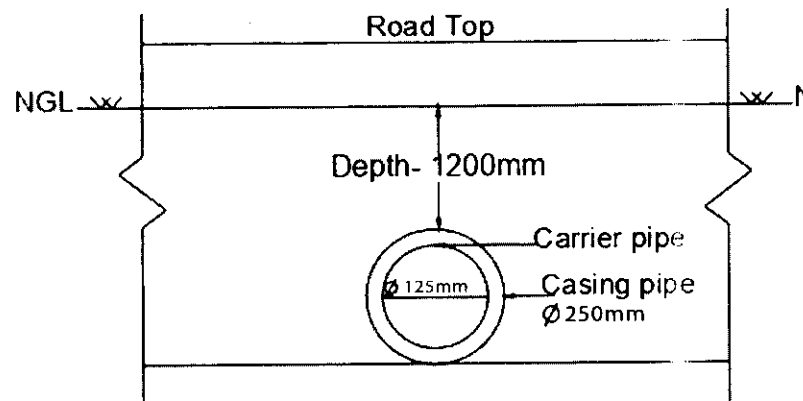
Executive Engineer
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19.

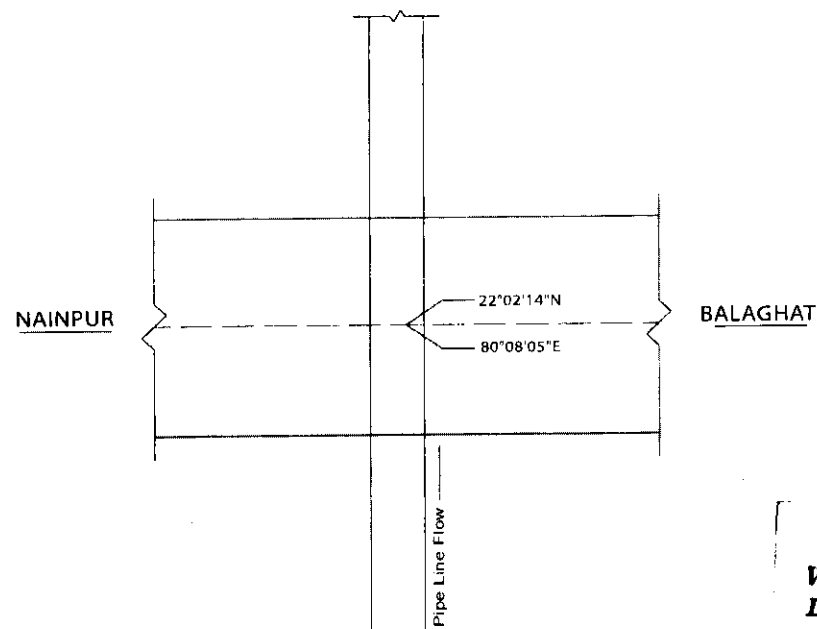
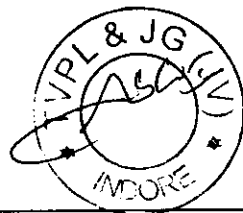
WATER RESOURCE DEPARTMENT BALAGHAT (M.P.)
LAMTA PRESSURIZED PIPE IRRIGATION NETWORK (HOSE SYSTEM) PROJECT
NH543 CROSSING FROM LAMTA TO NAINPUR TO BALAGHAT



ELEVATION



Cross Section - A-A



PLAN

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