



RW/BHP/MP/waterpipeline(172)/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: 10.02.2025

Invitation of Public Comments

Subject: Proposal for permission for laying water pipeline from Tewar to Meregaon LHS on Jabalpur-Hiran section of NH-45 from chainage 12+700 to 65+115 (Total length of 52.415km and 17 nos of crossings) by MP Jal Nigam in the State of Madhya Pradesh - reg.

DM, MPRDC, Jabalpur vide letter no. 2229/DM/MPRDC/MoRTH/CROSSING-CHARGE/2025 dated 31.01.2025 forwarded therewith a proposal in this office for permission for laying water pipeline from Tewar to Meregaon LHS on Jabalpur-Hiran section of NH-45 from chainage 12+700 to 65+115 (Total length of 52.415km and 17 nos of crossings) by MP Jal Nigam 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. – 248916).

Yours faithfully,

Digitally signed by
 Shubham Kaushal Ahirwar
 Date: 10.02.2025 13:25:10
 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), MPRDC, Bhopal-for information.
3. The DM, MPRDC, Jabalpur -for information and necessary action.
4. MP Jal Nigam, Jabalpur (Email: gmjabalpur.mpjalnigam@mp.gov.in)- for information and

necessary action.

**MADHYA PRADESH ROAD DEVELOPMENT CORPORATION LIMITED**

(Govt. of M.P. Undertaking)

45 - A, Arera Hills, Bhopal - 462 011

Tel: (O) 0755 - 2765196, 205, 213, 216 (EPBX) Fax: 91-755-2572643

Website : www.mprdc.nic.in**OFFICE OF THE DIVISIONAL MANAGER**

Opp. Office of the Chief Engineer (c/z) P.W.D., Civil lines, JABALPUR - 482001

(CIN : U45203MP2004052016758)

**Letter No. 2229 /DM/MPRDC/MoRTH/CROSSING-CHARGE/2025 Jabalpur, Dated: 31 .01.2025**

The Chief Engineer Cum Regional Officer,
Ministry of Road Transport & Highways
2nd Floor, Nirman Bhawan, Arera Hills,
Bhopal - 462011 (M.P.)


Sub.:- PERMISSION FOR LAYING OF WATER SUPPLY PIPELINE ALONG TEWAR TO MEREGAON LHS (JABALPUR-BHOPAL SECTION NH-45) AT KM. 12.700 TO KM 65.115 TOTAL 52.415 KMS (INCLUDING ROAD CROSSING 17 NOS. 1020M) TOTAL LENGTH 53.435 KMS

Ref.:- GM, MP Jal Nigam PIU Lr. No. 833/2025/MPJNM, Jabalpur dated 14.01.2025 (Received dated - 14.01.2025)

On the above subject, the Permission for laying of water supply pipeline along Tewar to Meregaoon LHS (Jabalpur-Bhopal section NH-45) at km. 12.700 to km 65.115 total 52.415 kms (including road crossing 17 nos. 1020m) total length 53.435 kms have been complied in conformity to Ministry of Road Transport & Highways Circular No. **RW/NH-33044/29/2015/S&R(R); dated 22.11.2016 & NH-36094/01/2022-S&R(P&B) dated 17.04.2023**. Accordingly, the draft agreements for laying these utility services on National Highway are enclosed herewith for your kind perusal, and approval. These proposals are being forwarded enclosed herewith in 3 copies duly recommended for favour of further needful at your end. All the necessary statutory fees as per the demand are also enclosed alongwith these proposals through appropriate instrument in favour of the concerned.

Sr.	Name of Project	Formalities	Remarks
1	Permission for laying of water supply pipeline along Tewar to Meregaoon LHS (Jabalpur-Bhopal section NH-45) at km. 12.700 to km 65.115 total 52.415 kms (including road crossing 17 nos. 1020m) total length 53.435 kms	<p>Bharatkosh Receipt NEFT/RTGS Transaction Reference Number: 20394509012500011952 from GM, JAL NIGAM MARYADIT, JABALPUR, to R.P.A.O. (NH) Bhopal (code 002192) Rs. 58,86,277.00 (In ward - Rs. Fifty-Eight Lakhs Eighty-Six Thousand Two Hundred Seveny-Seven Only) date 09.01.2025 for licence fee for laying of utility services.</p> <p>BG No. 0119IPEBG240103 issued dated 27.06.2024 valid up to 31.07.2025. Rs. 92,22,050.00 (In favour of MD, MPRDC, Bhopal) (Bank of India, Andheri(W), Mumbai)</p>	<p>received copy enclosed</p> <p>DD No. 915465 issued dated 09.01.2025 valid up Rs. 17,00,000.00 (17 Nos road crossing) (In favour of MD, MPRDC, Bhopal)</p>

Encl. Original Proposal (2 Sets), (Bharatkosh Receipt)
Photo copy proposal (1 Sets).

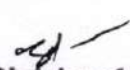

Divisional Manager

**M P Road Development Corporation Ltd.,
Jabalpur (MP)**

Endt. No. /DM/MPRDC/MoRTH/CROSSING-CHARGE/2025 Jabalpur, Dated: - .01.2025

Copy forwarded to-

1. The Chief General Manager (Admin), MPRDC, Bhopal. (Original DD & BG)
2. The General Manager MP Jal Nigam Maryadit (PIU) Jabalpur, for information.


Divisional Manager

**M P Road Development Corporation Ltd.,
Jabalpur (MP)**

Bharat Kosh (Toll free No.1800 118 111)		Deposit / Pay-in-slip - NEFT / RTGS				
URN No. (for Departmental Use)	20394509012500011952		Beneficiary (PAO) A/C No. :		10597401013	
Note : Please provide this URN No. at the Remarks column at the NEFT/ RTGS slip. Officials at Bank's counter himself/ herself need to ensure that the remitter Bank A/c no & the depositor being used for the NEFT/ RTGS Instruction is same as what is printed on this deposit slip. Any error in entry of this A/c no. will lead to non-delivery of services expected in lieu of this payment to Government of India.			Beneficiary (PAO) IFSC Code :		RBIS0MBPA04	
			Beneficiary (PAO) Account Type :		Current Account	
			Remitter's Bank Name :		STATE BANK OF INDIA	
			Remitter's Bank A/C No. :		42725063523	
			Remitter's Bank IFSC Code :		SBIN0000390	
		Payment Period/ Frequency :		No Restriction		
Remitter Name	Department / office from whose books the demand emanated	Full particulars of the nature of remittance and/or authority (if any)	Amount	Head of Account	Beneficiary Name (PAO) & Code	Remarks
General Manager	SE, Civil (203945)	Receipt of Service Fees on Account of NH, Receipt of Services fees on account of NH	58,86,277.00	1054005010100- RECEIPT OF SERVICES FEES ON ACCOUNT OF NH	Regional Pay & Accounts Office, (NH), Bhopal (002192)	License fee
			Total :		58,86,277.00	

(In words) Rupees : Fifty-Eight Lakhs Eighty-Six Thousand Two Hundred Seventy-Seven Only

Advisory for Banks	The amount (in whole number) shown in Deposit Slip should be remitted to Government of India account without any deduction by the bank.	
NEFT/RTGS Request Received Date		
Transaction Amount		
NEFT/RTGS Charges	NEFT/RTGS charges should be excluding the amount to be remitted to Government of India	
NEFT/RTGS UTR No		
Deposit Slip Created Date	09/01/2025 (This Deposit Slip is Valid for 15 Days till 24/01/2025)	
Note : Please enter the UTR Number at the Track your Payment / Payment history link available at NTRP, as soon as you complete the NEFT/RTGS payment and receive a UTR Number from your Bank. If you fail to do so, the system will not be able to generate the transaction receipt. Remark : This Deposit slip is valid for 15 days from the date of creation of deposit slip at NTRP, please make sure to do the NEFT/RTGS within 15 days, else the NEFT will not be accepted and treated as invalid".		
Courtsey :- Public Financial Management System		09-Jan-2025

SBINR52025011071645981



CHECK LIST

Guidelines for Project Directors for processing the proposal for laying water pipe line in the land along/across NH/SH/MDR vested with MPRDC

Relevant Circular

- Ministry's Circular No. RW/NH-33044/29/2015-S&R(R) (Pt.) date 22.11.2016. It is regarding the modification of previous Ministry's circular enhancing the amount of performance Bank Guarantee@ Rs. 100/- per route meter.

Sr. No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant	MADHYA PRADESH JAL NIGAM MARYADIT, JABALPUR	
1.2	NH/SH/MDR Number	NH	
1.3	State	MADHYA PRADESH	
1.4	Location	TEWAR TO MEREGAON	
1.5	Chainage in km.	Ch. 12.700 to 65.115 Total length 49.015 Kms.	
1.6	Length in Meters	49.015 M.	
1.7	Width of Available ROW	30 M	
	A. Left side from centre line (towards increasing Chainage/km. direction)	Ch.12.700 to 65.115 Total length 49.015 Kms.(INCLUDING ROAD CROSSING 17 NOS.510 M) TOTAL LENGTH 49.525KMS	
	B. Right side from centre line (towards increasing Chainage km. direction)	N	
1.8	Proposal to lay underground water pipeline	NA	
	A. Left side from centre line (towards increasing Chainage/km. direction)	NA	
	B. Right side from center line (towards increasing Chainage/km. direction)	NA	
1.9	Proposal to Acquire Land	NA	
	A. Left side of the centre line	NA	
	B. Right side from the centre line	NA	
1.10	Whether proposal is in the same side where land is not to be acquire, if not then where to lay the water	LHS	
1.11	Details of already laid services, if any along the proposal route	NA	
1.12	Number of lanes (2/4 or 6/8) existing	Four Lane	
1.13	Proposed number of lanes (2 lane with paved shoulders of 4 or 6/8 lane	NA	
1.14	Service road (existing or not) Y/N, if yes then which side	NA	
	A. Left side from centre line (width)	NA	
	B. Right side from centre line (width)	NA	
1.15	Proposed service road	NA	
1.16	Whether proposal to lay water pipeline is beyond the service road of between the service road and main carriageway	NA	
1.17	The permission for laying of water pipeline shall be considered for approval/rejection as based on Ministry Circular mentioned as above	NA	

Project Manager
National Highway Development Project
NH-12 (Package-I) Jabalpur-Hiran River Section
M.P. Road Development Corporation Ltd.
Jabalpur (M.P.)

DIVISIONAL MANAGER
M.P. ROAD DEVELOPMENT CORPORATION LTD.
JABALPUR

General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

	A. Carriage of sewage/gas pipeline on highway/bridges shall not be permitted as fumes/gases pipes can accelerate the process of corrosion or may cause explosions, thus being much more injurious than leakage of gas	NA	
	B. Carrying of Gas pipeline on bridges shall also be discouraged, however if the gas authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized the may be permitted to carry the pipeline in independent superstructure supported on extended portions of piers and abutment in such a manner that in the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repairs etc.	NA	
	C. Cost of required extension of the sub-structure as well as that the supporting superstructure shall be borne by the agency in charge of the utilities	MPJNM	
	D. Services are not being allowed indiscriminately on the parapet/any part of the bridge. Safety of the bridges has to be kept in view while permitting a various services along bridge approvals are to be accorded in this regard with the concurrence of the Ministry's project Chief Engineers only.	NA	
1.18	Is crossing of the road involved, if yes, it shall be either encased in pipelines or through structure or conduit specially built for the purpose at the expenses of the agency owning the line.	(1000mm dia carrying water pipeline 1200mm dia casing pipeline)	
	A. Existing drainage structure shall not be allowed to carry the lines	-	
	B. Is it on a line normal to NH	-	
	C. Crossing shall be too near the existing structure on the National Highway. The minimum distance being 15 m. What is the distance from the existing structure	-	
	D. The casing pipe (or conduit pipe in case of electric cable) carrying the utility line shall be of steel cast iron or reinforced Cement concrete and have adequate strength and be large enough to permit ready with drawl of the carrier pipe/cable	-	
	E. Ends of the casing/conduit pipe shall be sealed from the outside, so that it does as a drainage path	-	

	F. The casing/conduit pipe shall be sealed from drain to in cuts and toe of slope in the fills	-	
	G. The top of the casing/conduit pipe should be at least 12m. below the surface of the road subject to being at least 03 m. below the drain invert	-	
	H. Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type	HDD method	
	I. The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it	-	
1.18.1	If crossing of the road involved, total Nos. of crossing	17 nos. crossing	
1.18.2	Location of Crossing At Ch.	Ch. 12+700,13+945,14+960,16+216, 22+665,23+700,25+500,34+600, 37+400,40+900,43+600, 48+200,54+000,56+000, 56+700,57+940,61+500	
1.18.3	Total crossing charges @ Rs. 1.00 lakh per crossing	Yes	17 nos. only crossing
1.18.4	Deposit Details of crossing charges:- i) Demand Draft No. & Date ii) Issuing Bank iii) Valid upto:-	
2	Document/Drawing enclosed with the proposal	Yes	
2.1	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x0.3m width		
	(i) Should not be greater than 60cm wider than the outer diameter of the pipe	-	
	(ii) Located as close to the extreme edge of the right of way as possible but not than 15m. from the centre lines of the nearest carriage way	-	

	(iii) Shall not be permitted top run along the National highway when the road formation is situated in double cutting nor shall these be laid over existing culverts and bridges.	-	
	(iv) These should be so laid that their top is at least 0.6m below the ground level so as not to obstruct drainage of the road land	-	
2.2	Cross section showing the size of pit and location of cable for HDD method	yes	

2.3	Strip plan/route plan showing water pipe line Chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersections cross drainage works etc.	yes	
2.4	Methodology for laying of water pipe line	HDD	
2.4.1	Open trenching method (may be allowed in the utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type, if yes methodology or refilling of trench	-	
	A. The trench width should be at least 30cm but not more than 60m wider than the outer diameter of the pipe	-	
	B. for filling of the trench. Bidding shall be to a depth of not less than 30cm. 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		
	C. The backfill shall be completed in two stages.	-	
	(i) Side fill to the level the top of the pipe and	-	
	(ii) Overfill to the bottom of the road crust		
	D. The side fill shall consist of granular material laid in 15m layers each consolidated by mechanical tempering and controlled additional of moisture of 90% of the proctors density over fill shall be compacted to the same density as the material that had been removed Consolidation by saturation or pending will not be permitted.	yes	
	E. The road crust shall be built to the same strength as the existing crust on either side of the trench. Core shall be taken to avoid the formation of dip at the trench	yes	
	F. The required, a diversion shall be constructed at the expense of the agency owning utility line	GM, MPJNM PIU JABALPUR	
	G. If required, a diversion shall be constructed at the expense of the agency owning utility line	GM, MPJNM PIU JABALPUR	
2.4.2	Horizontal Directional drilling (HDD) method	HDD	
2.4.3	Laying of water supply pipe line through CD work and Method laying	-	
	A. On approaches the water mains/cables shall be carried along a line as close to the edge of the right of way as possible up to a distance of 30m from the bridge and subject to all other stipulation contained in the ministry guidelines issued with letter no. NH-HI/p/66/76, Dated 19-11-1976	Yes as per ministry guideline	
3	Draft license agreement signed by two witnesses	yes	
4	Performance bank guarantee in favour of MD,MPRDC Bhopal has to be obtained @ Rs. 100/- per running meter (Parallel to Road) for	yes	

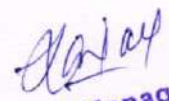
	a period of one year initially (Extendable if required till satisfactory completion of work) as a security for ensuring/ making		
	Good the excavated trench for laying the cables/ducts by proper filling and compaction, clearing debris/loose earth produced due to executing of trenching at least 30m away from the centre line of the road or edge of the right of way, No. payment shall be payable by the MPRDC to the licensee for clearing debris/Loose earth	Yes
4.1	Performance BG as per above it to be obtained	yes	
4.2	Confirmation of BG has been obtained:	yes	
5	Affidavit/undertaking from the applicant for	yes	
5.1	Not to damage to other utility, if damaged then to pay the losses either to MPRDC or to the concerned agency	yes	
5.2	Renewal of bank guarantee	yes	
5.3	Confirming all standard condition of MPRDC's guidelines	Yes MPRDC Guideline	
5.4	Shifting to water pipeline as and when required by MPRDC at their own cost	MPJNM, JABALPUR	
5.5	Shifting due to widening of road	-	
5.6	Indemnity against all damages and claims	yes	
5.7	Traffic movement during laying of water pipeline to be managed by the applicant	yes	
5.8	If any claim if raised by the Concessionaire (if any) then the same has to be paid by the applicant	GM, MPJNM PIU JABALPUR	
5.9	Prior approval of the MPRDC shall be obtained before undertaking any work of installation, shifting or repairs of alteration to the showing water pipe line located in the right of ways	yes	
5.10	Expenditure if any incurred by MPRDC for repairing any damage cause to the road by the laying Maintenance or shifting of the water pipe line will be borne by the agency owning the line	GM, MPJNM PIU JABALPUR	
5.11	If the MPRDC consider if necessary in future to move the utility line for any work of improvement or repairs of the road. It will be carried out as desired by the MPRDC or the cost of the agency owning the utility line with in a reasonable time (not exceeding 60 days) of the intimation given	GM, MPJNM PIU JABALPUR	
5.12	Certificate from the applicant in the following format	yes	
	i Laying of water pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic	yes	
	ii for future widening/development work: we do undertake that will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as well be stipulated by MPRDC	yes	
6	Who will sign the agreement on behalf or MPRDC	yes	
7	Certificate from the divisional manager	yes	

7.1	Certificate for confirming of all standard condition issued, vide ministry circular no. NH 41/(58)/68 Dated 31.01.1969 Ministry circular no. NHIII/P/66/76/ Dated 11-05-1982 Ministry circular no. RW/NH- 11037/1/88-DOI (ii) dated 02/07/1993 Minister circular no. RW/NH-11037/186/DOI, Dated 19-01-1995	yes	
	Ministry circular no. RW/NH/31066/2/05/S&R, Dated 25/10/1999 and Ministry circular no. RW/NH-34066/7/2003 S&R (B) Dated 17-09-2003		
7.2	Certificate from DM, MPRDC in the following format: (i) It is certified that any other location of the water pipeline would be extremely difficult and unreasonable costly and the installation of water pipeline with in ROW will not adversely affect the design stability and traffic safety of the highway nor the likely future improvement such as widening of the carriageway easing of curve etc.	yes	
	(ii) for 2/4/6 laning	-	
	(a) Where there is feasibility available I do certify that there will be no hindrance to proposed two/ four/ six lanning based on the feasibility report considering proposed structure at the side location	-	
	(b) In case feasibility reports is not available - I do certify that sufficient ROW is available at site for accommodating proposed two/ four / six lanning	-	
8	If Road section proposed to be taken up by MPRDC on BOT basis a clause is to be inserted in the agreement the permitted highway on which licensee has been granted the right to lay water pipe line cable/duct has also been granted as a right to way to the concessionaire under the concession agreement for up gradation of (-----No. --- on build, operate and transfer basis) and therefore the licensee shall Honors the same	yes	
9	Who will supervise the work of laying of water pipeline	MPJNM	
10	Who will ensure that the defects in road portion after laying of water laying of water laying of water pipeline are corrected and if not corrected then what action will be taken ?	MPJNM	
11	Who will pay the claims for damages done/ disruption in working of concessionaire if asked by the concessionaire	MPJNM	
12	A certificate from DM, MPRDC that he will enter the proposed permission in the register records of the permission in the prescribed Performa (Copy enclosed)	yes	

13	If any previous approval is accorded for laying of underground water pipeline then photo copy of register of records of permission accorded as maintained by DM, MPRDC then copy enclosed. maintained by DM, MPRDC then copy enclosed.	yes	
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Project Manager
 National Highway
 NH-12 (Package-I) Hiran River Section
 M.P. Road Development Corporation Ltd.
 Jabalpur (M.P.)


DIVISIONAL MANAGER
 M.P. ROAD DEVELOPMENT CORPORATION LTD.
 JABALPUR


General Manager
 M.P. Jal Nigam Maryadit
 Project Implementation Unit
 Jabalpur (M.P.)

CERTIFICATE

This is to certify that this proposal is:-

- a) In conformity to the relevant circulars/guidelines and is recommended for approval of permission to lay underground water pipeline OR
- b) Not in conformity to therelevant circulars/ guidelines due to following reasons:
 - i) Ministry's Circular No. RW/NH-33044/29/2015-S&R(R) (Pt.) date 22.11.2016.
 - ii)
 - iii)

[Strike out whichever is not applicable]

Place:

Date:



[Name and Seal]
DIVISIONAL MANAGER
MPRDC, JABALPUR

DIVISIONAL MANAGER
M.P. ROAD DEVELOPMENT CORPORATION LTD.
JABALPUR

Location Details

State	MADHYA PRADESH
District	JABALPUR
Sub District	Shahpura
Villages	Mahguwan,Bhita (Karondi),Khairi (Bhairoghat),Jamuniya ,Jamkhar ,Belkheda ,Basendi ,Meregaon ,Sundadehi ,Biharipura ,Karhaiya ,Khairi,Surai ,Natwara ,Ganj Katanga ,Jamuniya (Jwab),Kudan ,Bilha,Bhita ,Bilkharwa ,Hirapur Banda ,Dharampura ,Sahajpur ,Badkheda,Pondi (Sahajpur),Kisrod
Highway Category	4 Lane
Highway	NH45
Km	From: 2 To: 47.978
Stretch	0 421.65
Start Point	Side: LHS Chainage Point 2 KM Lat 23.155 Lng: 79.842
End Point	LHS Chainage Point 47.978 KM Lat: 23.144 Lng: 79.376
Crossings	

Chainage Point	LAT	LNG	Details of Existing Utility	Utility Ducts Available	Details
2.188	23.153	79.842		No	Not Applicable
3.458	23.153	79.83		No	Not Applicable
3.51	23.155	79.808		No	Not Applicable
9.49	23.755	79.744		No	Not Applicable
10.43	23.753	79.735		No	Not Applicable
12.18	23.744	79.719		No	Not Applicable
18.31	23.153	79.64		No	Not Applicable
21.05	23.168	79.62		No	Not Applicable
26.24	23.174	79.586		No	Not Applicable
30.9	23.18	79.561		No	Not Applicable
31.26	23.178	79.522		No	Not Applicable
31.86	23.179	79.505		No	Not Applicable
35.51	23.168	79.462		No	Not Applicable
38.17	23.154	79.442		No	Not Applicable
39.4	23.146	79.432		No	Not Applicable

Total Utilized NH Land Area	46488" Sq/m (Outer Diameter/Width of the concerned Utility line X length)				
Circle Rate	Rs 100				
Total Length (Mtr)	LHS: 45978 RHS: 0 Across: 510				
No. of Survey Nos	17.00				
View Survey No. List	View File				
Remarks	LAYING OF WATER SUPPLY PIPELINE ALONG TEWAR TO MEREGAON LHS ROAD (JABALPUR-BHOPAL SECTION NH-45) AT KM. 2.00 TO KM 47.978 TOTAL 45.978 KMS (INCLUDING ROAD CROSSING 17 NOS. 510M) TOTAL LENGTH 46.488 KMS				

CALCULATION SHEET FOR LICENCE FEE REQUIRED TO DEPOSIT FOR									
LAYING OF WATER SUPPLY PIPELINE ALONG TEWAR TO MEREGAON LHS ROAD (JABALPUR-BHOPAL SECTION NH-45) AT KM. 2.00 TO KM 47.978 TOTAL 45.978 KMS (INCLUDING ROAD CROSSING 17 NOS. 510M) TOTAL LENGTH 46.488 KMS									
Calculation if Utilized NH Land Area (Village Wise)					Calculation if Utilized NH Land Area X Prevailing Circle Rate of Land per Unit Area				
SR. No	Village/Town	Length (m) < =300mm	Length (m) >300mm & < =1000 mm	Outer Diameter/ Width of concerned utility line (m)	Utilized NH Land Area (Sqm)	Prevailing Circle Rate of land per unit area (Rs./Sqm)	Increase 100% on NH Road	Rate of land per unit area (Rs./sqm)	Utilized NH Land Area X Prevailing Circle Rate of land per unit area
	A	B		C	D	H	I = H 100%	J = H+I	K= DXJ
1	Tewar	188		1.20	225.60	400.00	400.00	800.00	180480.00
2	Bamurhahinatiya	1780		1.20	2136.00	82.40	82.40	164.80	352012.80
3	Kudan	1970		1.20	2364.00	184.00	184.00	368.00	869952.00
4	Bilha	1800		1.20	2160.00	230.00	230.00	460.00	993600.00
5	Bheeta	1750		1.20	2100.00	76.00	76.00	152.00	319200.00
6	Heerapura Bandha	1760		1.20	2112.00	23.20	23.20	46.40	97996.80
7	Khairi	1810		1.20	2172.00	54.40	54.40	108.80	236313.60
8	Bilkhirwa	1510		1.20	1812.00	192.00	192.00	384.00	695808.00
9	Ganjkatanga	1500		1.20	1800.00	200.00	200.00	400.00	720000.00
10	Sahajpur	1800		1.20	2160.00	194.50	194.50	389.00	840240.00
11	Pondi (Sahajpur)	1570		1.20	1884.00	160.00	160.00	320.00	602880.00
12	Kisrod	1780		1.20	2136.00	176.00	176.00	352.00	751872.00
13	Natwara	1970		1.20	2364.00	158.40	158.40	316.80	748915.20
14	Surai		2940	1.20	3528.00	73.60	73.60	147.20	519321.60
15	Manguwan		2372	1.20	2846.40	61.60	61.60	123.20	350676.48
16	Karhaiya		1360	1.20	1632.00	124.80	124.80	249.60	407347.20
17	Mankhedi		1778	1.20	2133.60	136.00	136.00	272.00	580339.20
18	Jamuniya		1980	1.20	2376.00	25.60	25.60	51.20	121651.20
19	Belkheda		2410	1.20	2892.00	200.00	200.00	400.00	1156800.00
20	Biharipura		1270	1.20	1524.00	74.40	74.40	148.80	226771.20
21	Sundradehi		2480	1.20	2976.00	112.00	112.00	224.00	666624.00
22	Basendi		3590	1.20	4308.00	61.60	61.60	123.20	530745.60
23	Dharmapura		2160	1.20	2592.00	28.80	28.80	57.60	149299.20
24	Meregaon		2450	1.20	2940.00	106.40	106.40	212.80	625632.00
25	length of 17 nos. crossing X 30 mtr	510		1.20	612.00	184.45	184.45	368.91	225770.40
Total		21698	24790						12970248.48
License Fee (Rs/Sqm/Month) = (Utilized NH Land Area x Prevailing Circle Rate of land per unit area) / (10x12)									
License Fees (Rs/Sqm/Month) =						=			108085
License Fees for 1 Year =						=			1297025
License Fees for 5 Years =						=			6485124
As per para 5 of MoRTH circular, Fees for public utilities shall be 33% of industrial utilities									
Therefore 33% of =						6485124			2140091
CALCULATION OF REFUNDABLE BANK GUARANTEE									
initially shall have to be furnished by the utility service provider/licensee.									
Bank Gaurantee for < =300mm dia/width (Per m) = Rs 100 X						21698	2169800		
Bank Gaurantee for >300mm & <= 1000 mm dia/width (Per m) = Rs 250 X						24790	6197500		
TOTAL AMOUNT TO BE SUBMITTED									
1	License Fee to be submitted on RTGS/DD (To MD, MPRDC BHOPAL) =						2140091		
2	Performance Bank Gaurantee (In the name of MD, MPRDC BHOPAL) =						8367300		
3	NO. OF CROSSING (Each Crossing @ 1.00 lacs) (Non-Refundable Demand Draft in favour of "Managing Director, M.P. Road Development Corporation Ltd., Bhopal")					100000	17	=	1700000

ASSISTANT GENERAL MANAGER
MPRDC, JABALPUR DIVISION

DIVISIONAL MANAGER
MPRDC, JABALPUR DIVISION

**MADHYA PRADESH ROAD DEVELOPMENT CORPORATION LIMITED**

(Govt. of M.P. Undertaking)

45 - A, Arera Hills, Bhopal - 462 011

Tel: (O) 0755 - 2765196, 205, 213, 216 (EPBX) Fax: 91-755-2572643

Website : www.mprdc.nic.in**OFFICE OF THE DIVISIONAL MANAGER**

Opp. Office of the Chief Engineer (c/z) P.W.D., Civil lines, JABALPUR - 482001

TEL: 0761 - 2624055, FAX +91-761-2624055

[CIN : U45203MP2004SGC016758]

Memo No. **1804 /DM/MPRDC/NH45/OTH/2024-25**Jabalpur, Dated **11.12.2024**
12.12.2024**THE GENERAL MANAGER,
MP JAL NIGAM MARYADIT, (PIU),
DISTT. - JABALPUR (MP)****Sub:- PERMISSION FOR LAYING OF WATER SUPPLY PIPELINE ALONG TEWAR TO MEREGAON
LHS(JABALPUR-BHOPAL SECTION NH-45) AT KM. 12.700 TO KM 65.115 TOTAL 52.415
KMS (INCLUDING ROAD CROSSING 17 NOS. 1020M) TOTAL LENGTH 53.435 KMS****Ref:- Your Ltr No 2791/MPJNM/PIU/Jabalpur/2024 Dtd. 13.08.2024 (received dtd. 14.08.24)**

With respect to above subject, vide letter in reference, you have requested for permission for laying of water supply pipeline along tewar to meregaon lhs road (Jabalpur-Bhopal section NH-45) at km. 12.700 to km 65.115 total 52.415 kms (including road crossing 17 nos. 1020m) total length 53.435 kms

In order to fulfill the requirement as elaborated vide **Ministry of Road Transport and Highways, New Delhi Circular no. NH-36094/01/2022-S&R(P&B) dated 17.04.2023**, please make sure to submit the following along with the proposal:-

1. Receipt of ₹ 10,000/- deposited as one time licence fee (non refundable) in the name of **Managing Director, MPRDC, Bhopal.**
2. Bipartite agreement original copy on ₹ 500/- NJS for laying pipe line/Crossing.
3. Power of attorney on ₹ 500/- to authorizing the official to execute the agreement.
4. License Fee in the form of Bharatkos (Non-Refundable in favour of "(To RPAO, Raipur)") of ₹ 58,86,277.00 (In words Fifty Eight Lacs Eighty Sixty Thousand Two Hundred Seventy Seven Only).
5. Submit Bank Guarantee as a security deposit in favour of "**Managing Director, M.P. Road Development Corporation Ltd., Bhopal**" @ Rs.100 & 250/-per meter length i.e. ₹ 92,22,050.00 (In Words Ninty-Two Lacs Twenty-Two Thousand Fifty Only) with validity of atleast one year.
6. Each crossing Fee @ 1.00 Lakh per crossing (Non-Refundable Demand Draft in favour of "**Managing Director, M.P. Road Development Corporation Ltd., Bhopal**") of ₹. 17,00,000.00 (In words Seventeen Lacs Only)
7. Undertaking as per above guidelines.
8. Submit the engineering drawing showing the arrangement to cross the CD structure with complete methodology and cost estimate, if any.
9. Permission will be subject to availability of non-congestion area in ROW.
10. This demand letter doesn't imply that the permission is granted and kindly ensure that no allied activity would be carried out on presumption and unless the permission is accorded in favour.

The proposal may be sent for further needful only after aforesaid is complied with.

Encl. Nil.

(R.S. Chandel)**Divisional Manager****MP Road Development Corporation Ltd.****Jabalpur (MP)**Endt. No. **/ DM/MPRDC/NH45/OTH/2024-25**Jabalpur, Dated **11.12.2024**

Copy to -

The Chief General Manager (Admin), MPRDC, Bhopal, for information.

Divisional Manager**MP Road Development Corporation Ltd.****Jabalpur (MP)**

CALCULATION SHEET FOR LICENCE FEE REQUIRED TO DEPOSIT FOR

LAYING OF WATER SUPPLY PIPELINE ALONG TEWAR TO MEREGAON LHS ROAD (JABALPUR-BHOPAL SECTION NH-45) AT KM. 12.700 TO KM 65.115 TOTAL 52.415 KMS (INCLUDING ROAD CROSSING 17 NOS. 1020M) TOTAL LENGTH 53.435 KMS

Calculation if Utilized NH Land Area (Village Wise)					Calculation if Utilized NH Land Area X Prevailing Circle Rate of Land per Unit Area			
Sr. No	Village/Town	Length (m) < =300mm	Length (m) >300mm & < =1000 mm	Outer Diameter/ Width of concerned utility line (m)	Utilized NH Land 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 10% per Annum	
	A	B		C	D	E	F=DxE	
1	Tewar	188		0.50	94.00	₹6,500.00	₹6,11,000.00	
2	Jhinna	2080		0.50	1040.00	₹1,800.00	₹18,72,000.00	
3	Kudan	2590		0.50	1295.00	₹2,400.00	₹31,08,000.00	
4	Bilha	2090		0.50	1045.00	₹3,500.00	₹36,57,500.00	
5	Bheeta	2750		0.50	1375.00	₹3,300.00	₹45,37,500.00	
6	Heerapura Bandha	2780		0.50	1390.00	₹2,000.00	₹27,80,000.00	
7	Khairi	2040		0.50	1020.00	₹1,200.00	₹12,24,000.00	
8	Bilkhirwa	2540		0.50	1270.00	₹2,000.00	₹25,40,000.00	
9	Ganikatanga	1500		0.50	750.00	₹2,600.00	₹19,50,000.00	
10	Sahaipur	1800		0.50	900.00	₹2,250.00	₹20,25,000.00	
11	Pondi	2450		0.50	1225.00	₹1,000.00	₹12,25,000.00	
12	Kisrod	1780		0.50	890.00	₹1,300.00	₹11,57,000.00	
13	Narwara	1970		0.50	985.00	₹1,900.00	₹18,71,500.00	
14	Suraj		2940	1.20	3528.00	₹800.00	₹28,22,400.00	
15	Manguwan		2372	1.20	2846.40	₹800.00	₹22,77,120.00	
16	Karhaiya kala		1360	1.20	1632.00	₹800.00	₹13,05,600.00	
17	Mankhedi		2750	1.20	3300.00	₹2,400.00	₹79,20,000.00	
18	Jamuniya		1995	1.20	2394.00	₹800.00	₹19,15,200.00	
19	Belkheda		2410	1.20	2892.00	₹2,600.00	₹75,19,200.00	
20	Biharipura		1350	1.20	1620.00	₹800.00	₹12,96,000.00	
21	Sundradehi		2480	1.20	2976.00	₹1,100.00	₹32,73,600.00	
22	Basendi		3590	1.20	4308.00	₹800.00	₹34,46,400.00	
23	Dharmapura		2160	1.20	2592.00	₹1,200.00	₹31,10,400.00	
24	Meragaon		2450	1.20	2940.00	₹1,000.00	₹29,40,000.00	
25	length of 17 nos. crossing X 60 mtr	1020		1.20	1224.00	₹2,638.24	₹32,29,200.00	
Total		27578	25857			(A)	₹6,96,13,620.00	
Sr. No.	Year	Licence Fee/Year						
1	2024-25	@1.5% per annum of (A)		₹10,44,204.30				
2	2025-26	including @6% annual increment		₹11,06,856.56				
3	2026-27	including @6% annual increment		₹11,73,267.95				
4	2027-28	including @6% annual increment		₹12,43,664.03				
5	2028-29	including @6% annual increment		₹13,18,283.87				
Total (5 Years)					₹58,86,276.71			
CALCULATION OF REFUNDABLE BANK GUARANTEE								
Bank Gaurantee for < =300mm dia/width (Per m) = Rs 100 X Length						₹27,57,800.00		
Bank Gaurantee for >300mm & <= 1000 mm dia/width (Per m) = Rs 250 X Length						₹64,64,250.00		
TOTAL AMOUNT TO BE SUBMITTED								
1	License Fee to be paid by the user agency in accordance with the provisions under clause 5.2 of circular No. NH-36094/01/2022-S&R (P&B)(E-208825), Dated: 24th April, 2023 on Bharatkosh (To RPAO, Raipur) =					₹58,86,276.71		
2	Performance Bank Gaurantee (In the name of MD, MPRDC BHOPAL) =					₹92,22,050.00		
3	NO. OF CROSSING (Each Crossing @ 1.00 lacs) (Non-Refundable Demand Draft in favour of "Managing Director, M.P. Road Development Corporation Ltd., Bhopal")					₹1,00,000.00	17	₹17,00,000.00

**MANAGER
MPRDC, JABALPUR**

**ASST GENERAL MANAGER
MPRDC, JABALPUR**

**DIVISIONAL MANAGER
MPRDC, JABALPUR**

Application Details [20240403/1/5/19119/7138]

Highway	NH45 [NH45]
Name of Highway Authority	
Highway Administration Address	
Whether the Fuel Station is part of Rest-area complex	No
Name of Applicant/Oil Company	Madhya Pradesh Jal Nigam Maryadit Address: Lane no 2 Behind SBI Vijay Nagar Jabalpur, JABALPUR (MADHYA PRADESH), PIN: 482002 Phn: 9826391810 Email: gmjabalpur.mpjalnigam@mp.gov.in
Application Category	Public Utility
Utility	Pipes
State	MADHYA PRADESH
Type	New
Remarks	LAYING OF WATER SUPPLY PIPELINE ALONG TEWAR TO MEREGAON LHS ROAD (JABALPUR-BHOPAL SECTION NH- 45) AT KM. 2.00 TO KM 47.978 TOTAL 45.978 KMS (INCLUDING ROAD CROSSING 17 NOS. 510M) TOTAL LENGTH 46.488 KMS
Submitted On	03 Apr 2024 13:55:48


General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

Details

1. Length in Meters *	46488m
2. Width of available ROW	
I. Left side from center line towards increasing chainage OR km direction *	30m
II. Right side from center line towards increasing chainage OR km direction *	30m
3. Proposal to lay the utility	
I. Left side from center line towards increasing chainage OR km direction *	KM. 2.00 TO KM 47.978 TOTAL 45.978 KMS (INCLUDING ROAD CROSSING 17 NOS. 510M) TOTAL LENGTH 46.488 KMS
II. Right side from center line towards increasing chainage OR km direction *	0
4. Proposal to acquire the land	
I. Left side from center line *	0
II. Right side from center line *	0
5. Whether proposal is in the same side where land is not to be acquired *	No
If not then where to lay the cable *	NA
6. Details of already laid services if any along the proposed route *	0
7. Number of Existing lanes *	4 Lane
8. Proposed number of lanes *	4 Lane
9. Service road Exists *	No

Sanjay
 General Manager
 M.P. Jal Nigam Maryadit
 Project Implementation Unit
 Jabalpur (M.P.)

10. Proposed Service road

Left side from center line

22-30m

Right side from center line

0

11. Whether proposal to lay cable is after the service road or between the service road and main carriageway *

N/A

12. Whether carrying OFC Cable has been proposed on highway /bridges, If yes then mention the methodology proposed for the same *

yes

13. Is crossing of the road involved? If Yes, is shall be either encased in pipes or through structure of conduits specially built for the purpose at the expense of the agency owing the line *

yes

I. Whether the existing drainage structures are allowed to carry utility pipeline. *

yes

II. Is it on a line normal to NH? *

Yes

III. What is the distance of crossing the utility pipelines from the existing structure? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 mtrs. *

20.0

[Signature]
 General Manager
 M.P. Jal Nigam Maryadit
 Project Implementation Unit
 Jabalpur (M.P.)

IV. The casing pipe (or conduit pipe in the case of electric cable) line carrying the utility line shall be of steel, cast iron or reinforced concrete and have adequate strength and be large enough to permit ready withdrawal of carrier pipe/cable Mention type of casting. *

yes

V. Ends of the casing/conduit pipe shall be sealed from outside, so that it does not act as a drainage path *

yes

VI. The casing/conduit pipe should be as minimum extend from drain in cuts toe of slope in fills. *

yes

VII. The installation of Casing pipe shall be as per attachment-1 of Ministry's Guidelines dated 22.11.2016 *

yes

VIII. Mention the methodology proposed for crossing of road for the proposed sewerage / gas pipeline crossing shall be boring method (HDD) (Trenchless Technology) specially where the existing road pavement is of cement concrete of dense bituminous concrete type. *

yes

14. Whether the proposal satisfies the following:

[Signature]
General Manager
M.P. Jal Nigam Maryadi
Project Implementation Unit
Jabalpur (M.P.)

I. Where the ROW is more than 45 M then the duct cable shall be laid at the edge of right of way within the utility corridor of 2 M width, duly keeping in view the future widening. *

yes

II. Where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2 M width, on that side of existing carriageway where extra land is not proposed to be acquired for 4 laning. *


yes

III. Where the widening plan for 4 laning is not yet decided and available ROW is around 30 M or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5 M to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans. *

yes

IV. Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. Highways in cutting through hilly/rolling terrain), the cable shall be laid clear of the drain. *

yes


General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

V. Where land strip for utility corridor can't be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused.

na

15. Document/Drawings enclosed with the proposal *

Yes

I. Cross section showing the size of trench for open trenching method (is it normal size of 1.2m (min.) deep x 0.3 wide) *

1.2m

II. Cross section showing the size of pit and location of cable for HDD method *

HDD

III. Strip plan/ Route plan showing the OFC, Chainage width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc. *

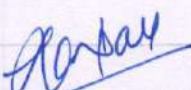
yes

IV. Methodology of laying of the Utility Pipeline/OFC *

yes

V. Open trenching method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type) If yes what is the Methodology of refilling of trench *

HDD


General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

(a) The trench width should be at least 30 cms but not more than 60 cms wider than the outer diameter of the pipe *

yes

(b) For filling of the trench, bedding shall be to a depth of not less than 30 cms. It shall consist of granular material, free of lumps, clods, cobbles and graded to yiled firm surface without sudden change in the bearing value, unsuitable soil and rock edges should be excavated and replaced by selected material *

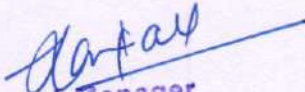
yes

(c) The backfill shall be completed in two stages, i) Side fill to the level of the top of the pipe and ii) Overfill to the bottom of the road crust *

yes

(d) The side fill shall consist of granular material laid in 15 cms, layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor density. Overfill shall be compacted to the same density as the material that has been removed. *

yes


General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

(e) The road crust shall be built to the same strength as existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench. *

yes

(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours. *

yes

(g) If required, a diversion shall be constructed at the expense of agency owing the utility line. *

yes

VI. Horizontal Directional Drilling (HDD) Method *

HDD method

VII. Laying OFC through CD Works and Method of laying (Whether to be hung outside parapet). *

yes

16. Draft license Agreement signed by two witnesses. *

yes

I. The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016. *

yes

17. Whether Performance Bank Guarantee is as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R, dated 22.11.2016. *

Yes

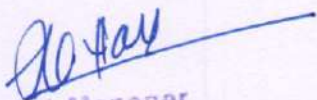
I. Confirmation of BG has been obtained as per MoRTH guidelines *

Yes

18. Affidavit/Undertaking from the Applicant for following is to be furnished


General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Applicant (M.P.)

a) Undertaking not to Damage to other utility, if damage then to pay the losses either to NHAI or the concerned agency. *	Yes
b) Undertaking Renewal of Bank Guarantee as and when asked by MoRTH. *	Yes
c) Undertaking Confirming all standard condition of Ministry's guidelines. *	Yes
d) Undertaking for indemnity against all damages and claims *	Yes
e) Undertaking for management of traffic movement during laying of utility line without hampering the traffic *	Yes
f) Undertaking that if any claim is raised by the concessionaire/ contractor then the same has to be paid by the applicant. *	Yes
g) Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the utility located in the National Highway Right of Ways. *	Yes


 General Manager
 M.P. Jai Nigam Maryadit
 Project Implementation Unit
 Jabalpur (M.P.)

h) Undertaking that expenditure is any incurred by NHAI for repairing any damage cause to the NH by laying, maintenance of shifting of the utility line will be borne by the applicant agency owing the line. *

Yes

i) Undertaking that text of the license deal is as per verbatim of format issued by MoRTH vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016 *

Yes

j) Undertaking for shifting of utility as and when asked by MoRTH/ NHAI. *

Yes

k) Certificate from the applicant in the following format

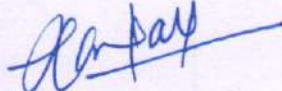
l) We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost not withstanding the permission granted within such time us will be stipulated by NHAI for future six laning or/any other development

19. Who will sign the agreement on behalf of Applicant agency? Power of Attorney to sign the agreement is available or not. *

Available

20. The Power of Attorney is in favour of authorized signatory? *

Yes


General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

Locations

Sno	State	District	Highway /Stretch	Start Point	End Point	View
1	MADHYA PRADESH	JABALPUR	NH45 [NH45] (0-421.65) From Km: 2 To Km: 47.978	Chainage Point: 2 Lat: 23.155 Lng: 79.842	Chainage Point: 47.978 Lat: 23.144 Lng: 79.376	View

Documents

Sno	Stage	Document	Mandatory	Action
1	Under Submission	Layout and Drawings	Yes	View
2	Under Submission	Any Other Supporting Document	No	--
3	Under Submission	Any Document to indicate commercial activities are allowed on the land.	No	--
4	Under Submission	Safety Clearance from Directorate of Electricity	No	--
5	Under Submission	Safety Clearance from Chief Controller of Explosives	No	--
6	Under Submission	Safety Clearance from Petroleum and Explosives Safety Organisation	No	--
7	Under Submission	Safety Clearance from Oil Industry Safety Directorate	No	--
8	Under Submission	Safety Clearance from State/Central Pollution Control Board	No	--
9	Under Submission	Any Other Statutory Clearance as applicable	No	--

Applicable Fee Details

Sno	Fee Head	Stage	Fee	Amount	Status
1	Utility Fees	Technical Approval	License Fees	767052.00	



मध्य प्रदेश MADHYA PRADESH

CM 815495

Undertaking

I General Manager, Madhya Pradesh Jal Nigam Maryadit on behalf of MPJNM PIU Jabalpur hereby undertake that:-

1. We will start the laying of utility only after seeking consent from concerned Divisional Manager, MPRDC.
2. We will carry out the work as per standards and specification applicable in MPRDC.
3. While carrying out the utility laying work, under no circumstances, the traffic plying on the MPRDC road shall be obstructed or diverted by any means.
4. The work shall be carried out in strict adherence to conditions given in MPRDC permission 12.700 to 65.115 Km.
5. We will carry out the restoration work as per MPRDC standards and specification after laying the utility.

General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

6. That we will shift the laid utility at our own cost in specified time period, if so demanded by the MPRDC for the purpose of road up-gradation or widening etc.

7. We will bear any expenditure incurred by the MPRDC for repairing any damage caused by our utility services.

8. We will pay Rs. 1,00,000/- per road crossing (if applicable) as road crossing charges.

9. We will take care of any existing utilities or services lines already laid. In case, any damage occurs due to our work, we will pay desired damage either to MPRDC or concerned agency.

10. We will deposit/submit any statutory fee user charges/Bank guarantee as applicable and demanded by the MPRDC.

11. We will indemnify the MPRDC against all damages and claims arising due to our utility work.



General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)



Registration and Stamp Department

Madhya Pradesh

Certificate of Stamp Duty

E-Stamp Details

E-Stamp Code: 01010514022024008659
Total E-Stamp Amount: 500
Govt Stamp Duty (Rs.): 500
Municipality Duty (Rs.): 0
Janpad Duty (Rs.): 0
Local Amount (Rs.): 0
Exempted Amount (Rs.): 0
E-Stamp Type: NON JUDICIAL
Issue Date & Time: 14/02/2024 14:30:15
Service Provider or Issuer Details: jyoti shukla/SP011840005201700090
SP/SRO/DRO/HO Details: Shop No. 9, Nagar Nigam Market, Collectrate Road, Ghantaghar, Pagal Khana Masjid Area, Jawahar Lal Nehru Ward, Jabalpur IM.P. 482001 JABALPUR JABALPUR

Deed Details

Deed Type: Agreement or Memorandum of an agreement
Deed Instrument: If not otherwise provided for- Five hundred rupees
Impose: AGREEMENT

First Party Details

Organization Name: MoRTH-BHOPAL
Address: MoRTH, BHOPAL Madhya Pradesh INDIA
Number of Persons: 1

Second Party Details

Organization Name: G. M. M.P. Jal Nigam Maryadit, Jabalpur
Address: 92/A, Prem Nagar, Gupteshwar Ward, JABALPUR Madhya Pradesh INDIA
Number of Persons: 1

"This e-stamp shall not be used in any type of agreement/power of attorney which is anyhow related or concerned with sale or purchase of immovable property." AGREEMENT- MoRTH-BHOPAL with General Manager M.P. Jal Nigam Maryadit, Jabalpur

Digitally signed by JYOTI SHUKLA
Date: 2024.02.14 14:30:15
IST

General Manager
M.P. Jal Nigam Maryadit
Project Registration Unit

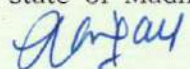
**AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSION FOR
UTILITY SERVICES ON STATE HIGHWAY/NATIONAL HIGHWAY**

Agreement to lay OFC/pipeline/Electric line/ along **Tewar to Meregaon (NH-45)** Road from Ch. 12+700 to Ch. 65+115 total 49+015 km LHS & 17 Nos Road Crossing total length 0.510 kms total laying length 49.525 kms for water supply pipeline along at Tewar to Meregaon Road NH-45 in state of Madhya Pradesh.

This Agreement made this, day of Month of Year Two Thousand Twenty, between **Divisional Manager, Madhya Pradesh Road Development Corporation Limited/NHAI** acting in his executive capacity through (hereinafter referred to as the MPRDC which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) on the one part and **MP Jal Nigam Maryadit** a company registered under companies act 1956 and having its registered office located, **8, Jail Rd, Arera Hills, Madhya Pradesh 462011, Bhopal** (hereafter referred as MPJNM/Licensee) which expression shall, unless excluded by or repugnant to the context, include his heirs its successors/their successors and assigns) of the second part.

Whereas the Madhya Pradesh Road Development Corporation limited is responsible, inter- alia, for development and maintenance of lands in State of Madhya Pradesh. Whereas the licensee propose to lay Pipe Line along MPRDC NH-45 pipeline along Tewar to Meregaon (NH-45) Road from Ch. 12+700 to Ch. 65+115 total 49+015 km LHS & 17 Nos Road Crossing total length 0.510 kms for water supply pipeline along at Tewar to Meregaon (NH-45) in state of Madhya Pradesh.

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Jabalpur (M.P.)



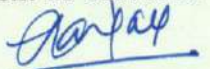
Whereas the Licensee has applied to the Authority for permission to lay utility services from MPRDC NH-45 Tewar to Meregaon Road Ch. 12+700 to Ch. 65+115 total 49+015 km LHS & 17 Nos Road Crossing total length 0.510 kms for water supply pipeline along at Tewar to Meregaon (NH-45) in state of Madhya Pradesh.

And whereas the MPRDC has agreed to grant such permission on the terms and conditions hereinafter mentioned.

Now this agreement witnesses that in consideration of the conditions hereinafter contained and on the part of the licensee to be observed and performed, the MPRDC hereby grants to the Licensee permission to lay Pipeline as per the drawings 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 fulfillment 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 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.
6. 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 with sufficient space are already available along NH, the utility services shall be laid in such 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 road side 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 arrangement as assessed by the Authority shall be payable by the Licensee.

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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-I.
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 cms 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.
 - a. 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.
 - b. 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.
 - c. The side fill shall consist of granular material laid in 15 cm. Layers 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.
 - d. 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.
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 in to 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 work 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 compaction damages caused to other underground installations/utility services

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Regulation Implementation Unit

Jabalpur (M.P.)

& 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 coordination 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 etc. before 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 coordination 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.
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 a utility service 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 concerned 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

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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 coordination 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.
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 authorized 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.
 - 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.

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Jabalpur (M.P.)

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

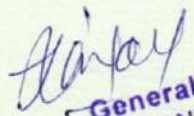
Signature of Applicant SIGNED, SEALED AND DEVIVERED BY

for and on behalf of

for and on behalf of

DIVISIOANL MANAGER
MP ROAD DEVELOPMENT CORPORATION
LIMITED, JABALPUR

In the presence of (Licensee side)


GENERAL MANAGER
MADHYA PRADESH JAL NIGAM MARYADIT
P.I.U. JABALPUR

In the presence of (Client/Employer side)

WITNESS:

1.

2.

WITNESS:

1.

2.

(NH45)

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 28

2220	कटीला	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1040000	688000	800	1200
2221	मनंगवां मुख्य मार्ग पर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1800000	1200000	900	1400
2222	मनंगवां मुख्य मार्ग से अंदर	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1184000	776000	800	1200
2223	रैनी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1280000	840000	800	1200
2224	उमरिया मुख्य मार्ग पर	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1744000	1160000	800	1200
2225	उमरिया मुख्य मार्ग से अंदर	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1120000	744000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 29

2226	फुलर	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200
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तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 30

2227	भीटा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1150000	760000	800	1200
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क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कच्चेपू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपवृक्ष अनुसार आवासीय	उपवृक्ष अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हलका: पटवारी हलका 43

2271	बमरिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	960000	640000	800	1200
2272	तामी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200
2273	मजीठा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200
2274	मनसुबा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	936000	616000	800	1200
2275	नीमखेडा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	960000	640000	800	1200
2276	तिलवारा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1080000	720000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हलका: पटवारी हलका 48

2277	धरमपुरा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	960000	640000	800	1200
2278	हीरापुर बंधा मुख्य मार्ग पर	1300	1900	1300	7300	5300	4100	3700	11100	10300	9500	0	0	2520000	1680000	1300	1900
2279	हीरापुर बंधा मुख्य मार्ग से अंदर	1200	1800	1200	7200	5200	4000	3600	11000	10200	9400	0	0	1750000	1150000	1200	1800

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कंक्रेट	तुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 49

2280	सहजपुर मुख्य मार्ग पर	1500	2500	1500	7500	5500	4300	3900	11700	10900	10100	0	0	2940000	1945000	1500	2500
2281	सहजपुर मुख्य मार्ग से अंदर	1300	2000	1300	7300	5300	4100	3700	11200	10400	9600	0	0	1920000	1252000	1300	2000

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 50

2282	बडखेरा	1200	1800	1200	7200	5200	4000	3600	11000	10200	9400	0	0	1440000	960000	1200	1800
2283	परासिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1440000	960000	800	1200
2284	पौडी मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	2400000	1600000	1000	1400
2285	पौडी मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1560000	1040000	900	1400

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 51

2286	किसरीद मुख्य मार्ग पर	1300	1900	1300	7300	5300	4100	3700	11100	10300	9500	0	0	2640000	1760000	1300	1900
2287	किसरीद मुख्य मार्ग से अंदर	1200	1800	1200	7200	5200	4000	3600	11000	10200	9400	0	0	2000000	1350000	1200	1800
2288	टिपरा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 52

2289	मगरमुहा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1175000	785000	800	1200
2290	पिपरिया रामघाट	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1560000	1040000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कनेल	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 53

2291	भमकी मुख्य मार्ग पर	1200	2000	1200	7200	5200	4000	3600	11200	10400	9600	0	0	2180000	1440000	1200	2000
2292	भमकी मुख्य मार्ग से अंदर	980	1500	980	6980	4980	3780	3380	10700	9900	9100	0	0	1395000	925000	980	1500
2293	खिरकाखेड़ा मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	2000000	1350000	1000	1400
2294	खिरकाखेड़ा मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1080000	720000	900	1400

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 54

2295	भमका	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200
2296	छपरट	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1035000	690000	800	1200
2297	कुलीन	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	936000	616000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कंक्रेट	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 62

2323	कुलोन	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	456000	296000	800	1200
2324	पिपरिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	600000	400000	800	1200
2325	उमरिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	536000	352000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 63

2326	किसलई	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	368000	264000	800	1200
2327	कोहला	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	392000	256000	800	1200
2328	कोहली	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	344000	224000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 64

2329	बिजना	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	456000	296000	800	1200
2330	दबकिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	440000	288000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कब्लू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 80

2379	बाड़ीबाड़ा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	336000	224000	800	1200
2380	देवरी नवीन	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	360000	240000	800	1200
2381	तिन्हेटा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	395000	264000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 81

2382	बुडबानी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	360000	240000	800	1200
2383	दामन खमरिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	425000	278000	800	1200
2384	मैहगवां	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	336000	224000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कनेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 33

2239	बपरा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2240	पिपरिया-कनबास	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1410000	935000	800	1200
2241	रैयाखेडा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2242	टिकरी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 34

2243	बम्हनीदा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200
2244	मुडिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200
2245	नटबारा मुख्य मार्ग पर	1000	1600	1000	7000	5000	3800	3400	10800	10000	9200	0	0	2375000	1584000	1000	1600
2246	नटबारा मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1600000	1060000	900	1400
2247	मुहजनी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1240000	824000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 32

2233	बरगी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2234	बरहा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1064000	704000	800	1200
2235	गंज कटंगा मुख्य मार्ग पर	1300	2200	1300	7300	5300	4100	3700	11400	10600	9800	0	0	3000000	2000000	1300	2200
2236	गंज कटंगा मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1320000	880000	900	1400
2237	लूटी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1064000	704000	800	1200
2238	सगडा मिहगंवा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1120000	736000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 31

2228	अमासी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1120000	736000	800	1200
2229	अहरोरा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2230	दोभी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2231	करहैया कलां	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2232	सुरई	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1120000	736000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कवेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 27																	
2215	इमलिया	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	960000	640000	800	1200
2216	खेरी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1500000	1000000	800	1200
2217	लम्हेटा	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	1320000	880000	1000	1400
2218	मानेगांव मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	1800000	1200000	1000	1400
2219	मानेगांव मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1184000	776000	900	1400

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)					व्यावसायिक भवन (वर्गमीटर)			वहुसंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपवृक्ष अनुसार आवासीय	उपवृक्ष अनुसार व्यावसायिक	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्ला: पटवारी हल्ला 15

2189	जुगपुरा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1160000	760000	800	1200
2190	पाबला	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1104000	728000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्ला: पटवारी हल्ला 16

2191	बेलबोही	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1160000	760000	800	1200
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तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्ला: पटवारी हल्ला 17

2192	सिंगपुर	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	936000	616000	800	1200
2193	सुन्दादेही मुख्य मार्ग पर	1100	1700	1100	7100	5100	3900	3500	10900	10100	9300	0	0	1680000	1120000	1100	1700
2194	सुन्दादेही मुख्य मार्ग से अंदर	1000	1600	1000	7000	5000	3800	3400	10800	10000	9200	0	0	1080000	720000	1000	1600

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सडक / गांव	भूखंड(वर्गमीटर)			आवासीय भवन (वर्गमीटर)					व्यावसायिक भवन (वर्गमीटर)				बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड(वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कवचलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपवर्ष अनुसार आवासीय	उपवर्ष अनुसार व्यावसायिक		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का : पटवारी हल्का 12

2182	बेलखेडा मुख्य मार्ग पर	1300	2000	1300	7300	5300	4100	3700	11200	10400	9600	0	0	1626000	1007000	1300	2000
2183	बेलखेडा मुख्य मार्ग से अंदर	1100	1700	1100	7100	5100	3900	3500	10900	10100	9300	0	0	1060000	700000	1100	1700

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का : पटवारी हल्का 13

2184	बसेडी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	936000	616000	800	1200
2185	रजौला	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	936000	616000	800	1200

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का : पटवारी हल्का 14

2186	मातापुर	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	936000	616000	800	1200
2187	मेरेगांव मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	1600000	1064000	1000	1400
2188	मेरेगांव मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1040000	688000	900	1400

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)					आवाससहिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आर.सी.सी.	टिन छाया	कच्चा कबलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का : पटवारी हल्का 09

2169	अमुनिया मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	1784000	1176000	1000	1400
2170	अमुनिया मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1250000	820000	900	1400
2171	मैती	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	816000	536000	800	1200
2172	चिपडरई	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	840000	560000	800	1200
2173	सालीबाड़ा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	960000	640000	800	1200
2174	बिरहला	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	816000	536000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 07

2164	गुंदरई मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	11400	10600	9800	0	0	1784000	1176000	1000	1400
2165	गुंदरई मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	11400	10600	9800	0	0	1160000	760000	900	1400
2166	जमखार मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	11400	10600	9800	0	0	1520000	1000000	1000	1400
2167	जमखार मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	11400	10600	9800	0	0	992000	656000	900	1400

तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 08

2168	गुबरा कलाँ	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1060000	700000	800	1200
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क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबेलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
तहसील : शहपुरा उप क्षेत्र : नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हलका: पटवारी हलका 31																	
2228	अगासी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1120000	736000	800	1200
2229	अहरोरा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2230	डोभी	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2231	करहैया कलां	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1304000	864000	800	1200
2232	सुरई	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1120000	736000	800	1200

क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला इमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबेलू	दुकान	कार्यालय	गोशान	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 22

2202	मनकेंडी मुख्य मार्ग पर	1200	1800	1200	7200	5200	4000	3600	11000	10200	9400	0	0	2040000	1360000	1200	1800
2203	मनकेंडी मुख्य मार्ग से अंदर	1100	1700	1100	7100	5100	3900	3500	10900	10100	9300	0	0	1450000	968000	1100	1700

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 23

2204	भरदा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1104000	728000	800	1200
2205	करहैया मुख्य मार्ग पर	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	1880000	1248000	1000	1400
2206	करहैया मुख्य मार्ग से अंदर	900	1400	900	6900	4900	3700	3300	10600	9800	9000	0	0	1240000	824000	900	1400
2207	किवलारी	1000	1400	1000	7000	5000	3800	3400	10600	9800	9000	0	0	1120000	744000	1000	1400
	कूडा	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1080000	720000	800	1200

तहसील : शहपुरा उप क्षेत्र :नान प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 24

2209	कुशली	800	1200	800	6800	4800	3600	3200	10400	9600	8800	0	0	1176000	776000	800	1200
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क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र :प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 45

2412	शिन्ना मुख्य मार्ग पर	1800	2700	1800	9800	6600	5000	4200	14200	13400	12600	0	0	2600000	1728000	1800	2700
2413	शिन्ना मुख्य मार्ग से अंदर	1500	2500	1500	9500	6300	4700	3900	14000	13200	12400	0	0	1830000	1220000	1500	2500
2414	कूडन मुख्य मार्ग से अंदर	1100	1800	1100	9100	5900	4300	3500	13300	12500	11700	0	0	1950000	1300000	1100	1800
2415	कूडन मुख्य मार्ग पर	1200	1900	1200	9200	6000	4400	3600	13400	12600	11800	0	0	2760000	1840000	1200	1900

तहसील : शहपुरा उप क्षेत्र :प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 46

2416	बिल्हा मुख्य मार्ग पर	2200	3500	2200	10200	7000	5400	4600	15000	14200	13400	0	0	3500000	2300000	2200	3500
2417	बिल्हा मुख्य मार्ग से अंदर	2000	3000	2000	10000	6800	5200	4400	14500	13700	12900	0	0	2500000	1700000	2000	3000

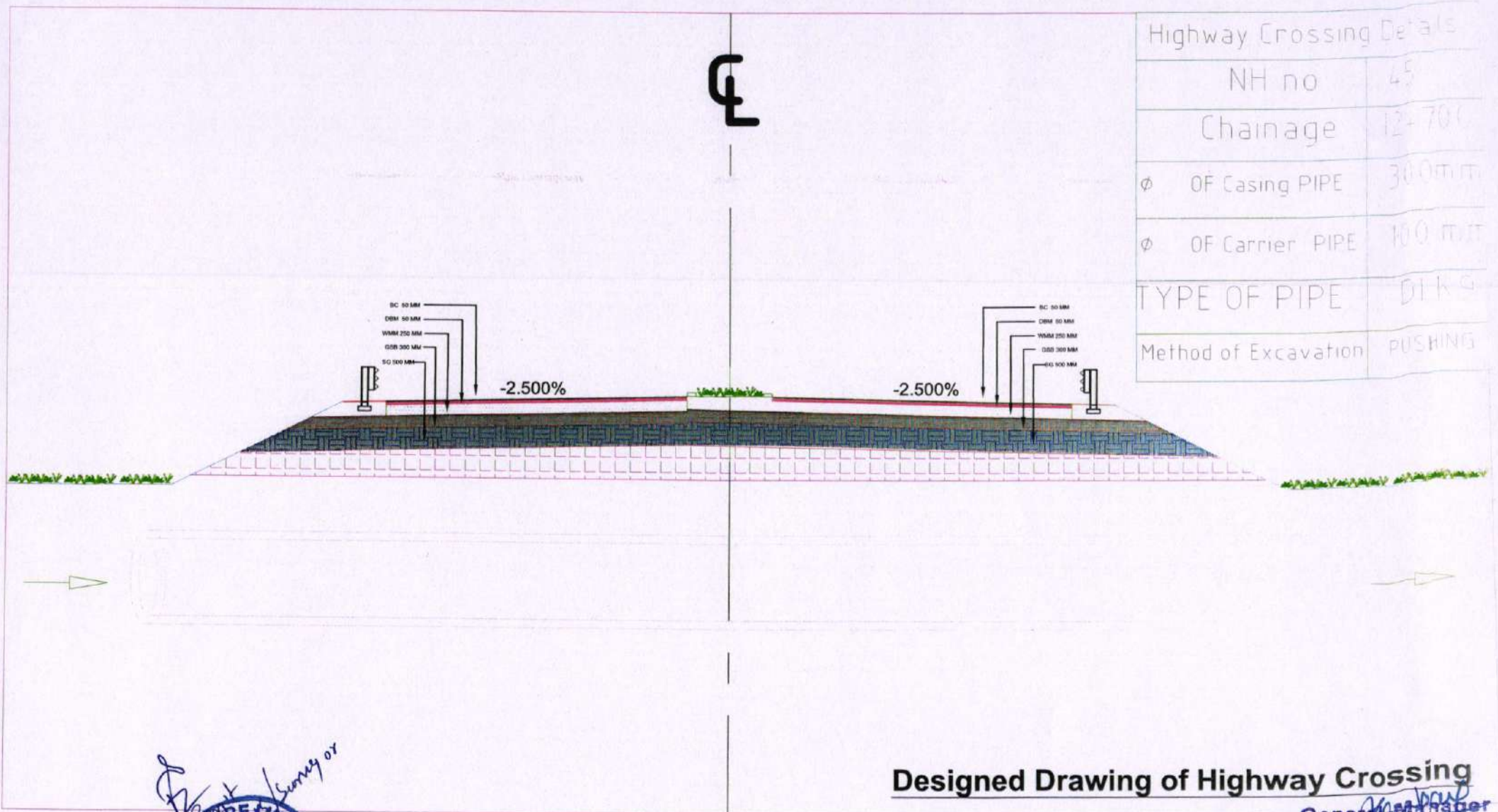
क्रमांक	मोहल्ला / कालोनी / सोसायटी / सड़क / गांव	भूखंड (वर्गमीटर)			आवासीय भवन (वर्गमीटर)				व्यावसायिक भवन (वर्गमीटर)			बहुमंजिला ईमारत (वर्गमीटर)		कृषि भूमि (हेक्टेयर)		कृषि भूखंड (वर्गमीटर)	
		आवासीय	व्यावसायिक	औद्योगिक	आरसीसी	आर.बी.सी.	टिन छाया	कच्चा कबलू	दुकान	कार्यालय	गोडाउन	आवासीय	व्यावसायिक	सिंचित	असिंचित	उपबंध अनुसार आवासीय	उपबंध अनुसार व्यावसायिक
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

तहसील : शहपुरा उप क्षेत्र : प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 47

2418	भीटा मुख्य मार्ग पर	2500	3500	2500	10500	7300	5700	4900	15000	14200	13400	0	0	4000000	2700000	2500	3500
2419	भीटा मुख्य मार्ग से अंदर	2000	3000	2000	10000	6800	5200	4400	14500	13700	12900	0	0	3000000	2000000	2000	3000
2420	बिल्खरवा मुख्य मार्ग पर	1100	1700	1100	9100	5900	4300	3500	13200	12400	11600	0	0	2880000	1920000	1100	1700
2421	बिल्खरवा मुख्य मार्ग से अंदर	800	1200	800	8800	5600	4000	3200	12700	11900	11100	0	0	1840000	1240000	800	1200

तहसील : शहपुरा उप क्षेत्र : प्लानिंग क्षेत्र, संख्या और वार्ड / पटवारी हल्का: पटवारी हल्का 48

2422	खेरी	900	1400	900	8900	5700	4100	3300	12900	12100	11300	0	0	1680000	1120000	900	1400
2423	शीतल ब्रिटेज खेरी	2000	3000	2000	10000	6800	5200	4400	14500	13700	12900	0	0	2000000	2000000	2000	3000



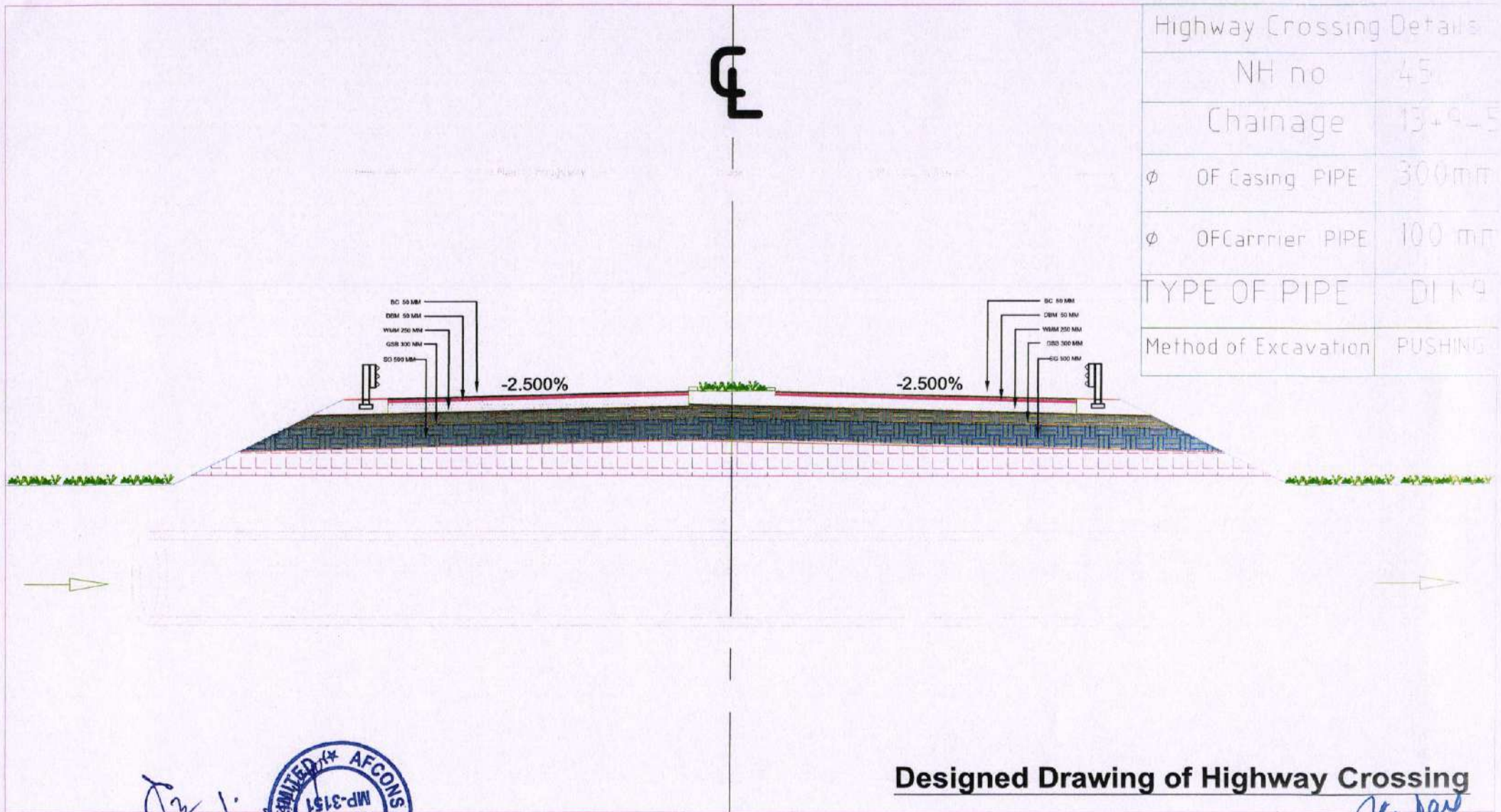
Highway Crossing Details

NH no	45
Chainage	12+700
Ø OF Casing PIPE	300 mm
Ø OF Carrier PIPE	100 mm
TYPE OF PIPE	DRG
Method of Excavation	PUSHING

Designed Drawing of Highway Crossing

General Manager
M.P. Jalagam Maryadit
Project Implementation Unit
Jabalpur (M.P.)



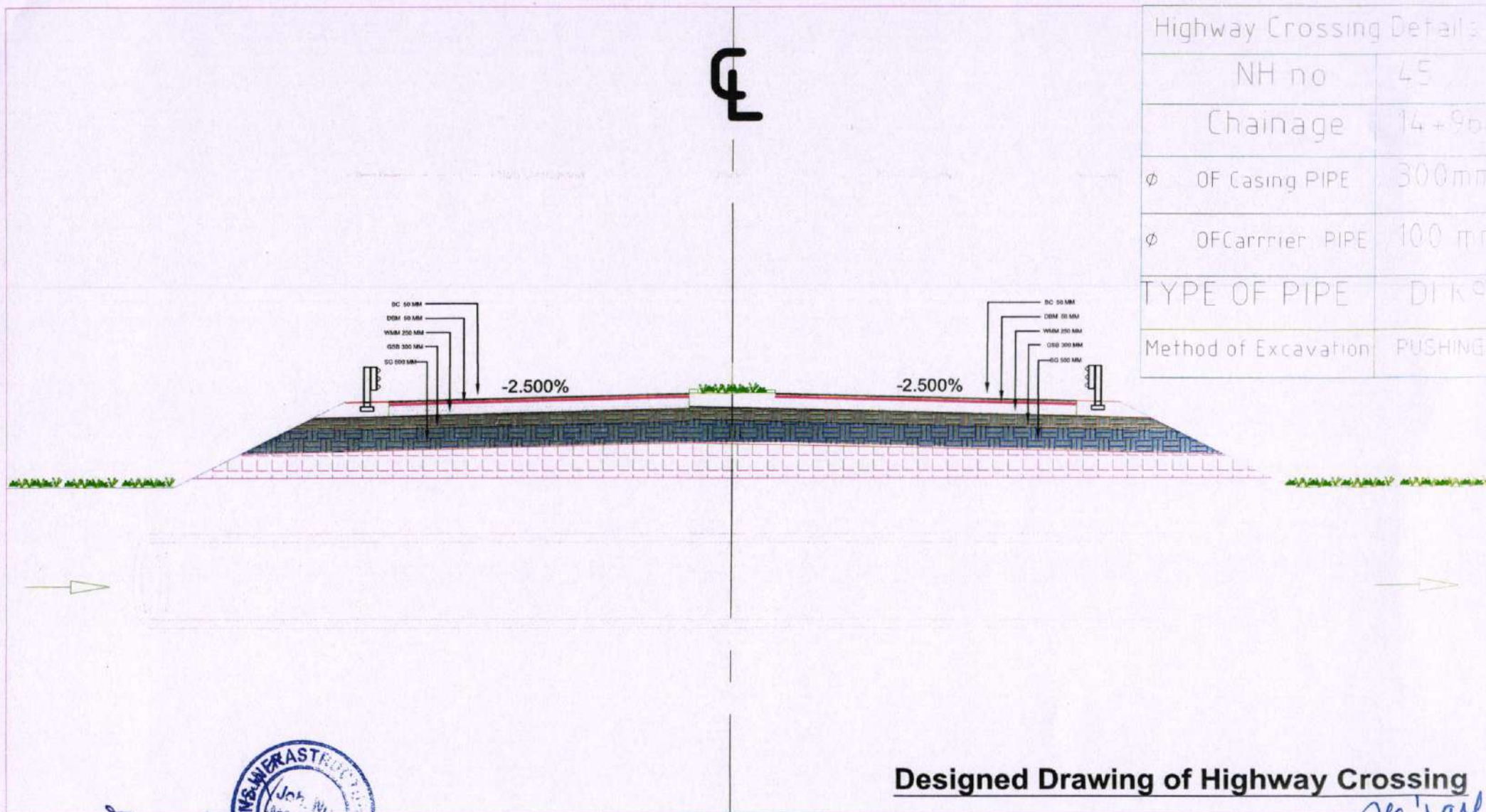


Designed Drawing of Highway Crossing

*P2
Limit
Affairs*

AFCONS INFRASTRUCTURE LIMITED
Job. No. MP-3151

[Signature]
General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)



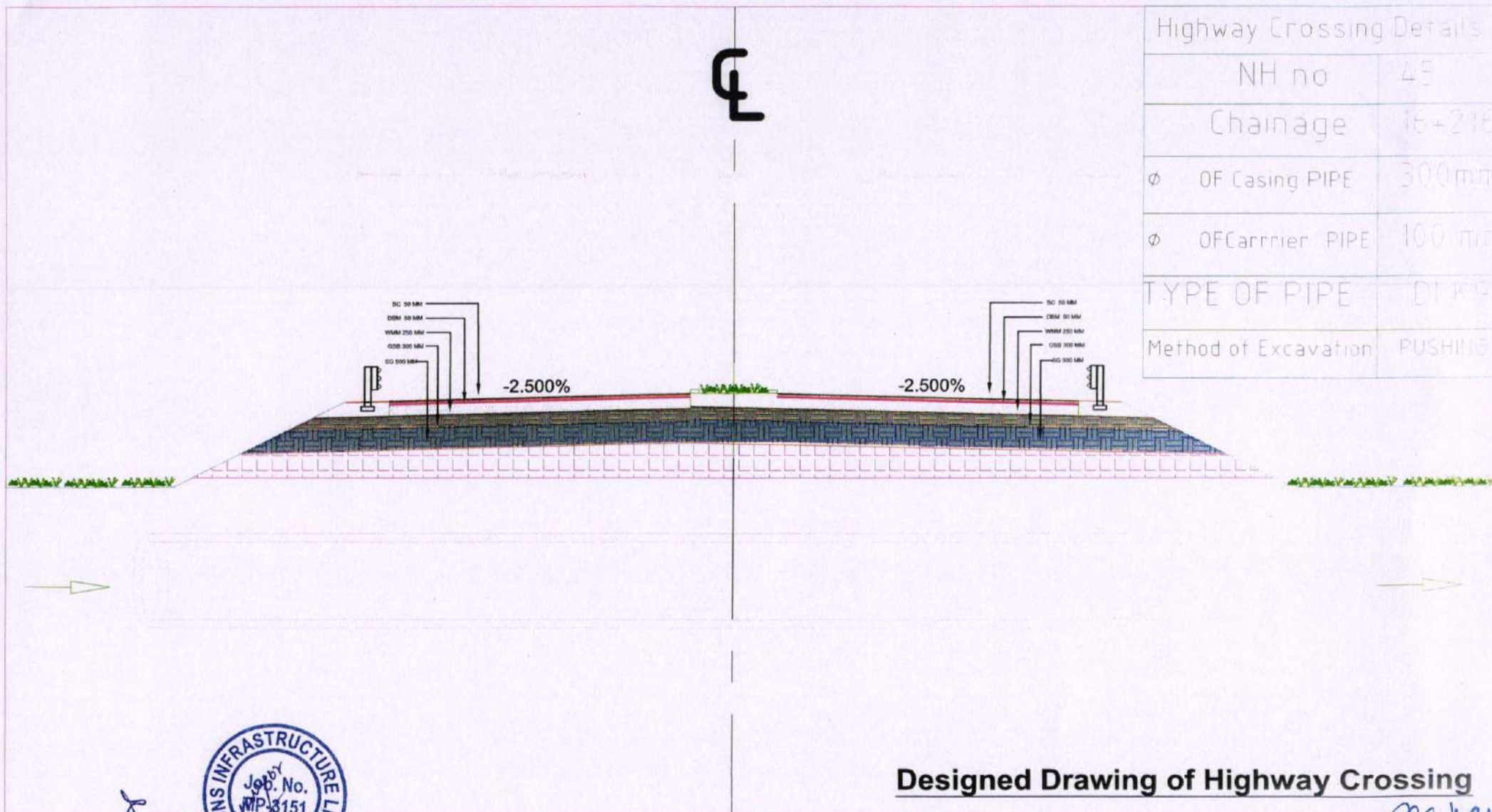
Highway Crossing Details	
NH no	45
Chainage	14+960
Ø OF Casing PIPE	300mm
Ø OF Carrier PIPE	100 mm
TYPE OF PIPE	DIK 9
Method of Excavation	PUSHING

Designed Drawing of Highway Crossing

Dr. Rmt Akhwal

AFCON & WERASTRA LIMITED
Job No. EMP-3151

Manish
General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)



Highway Crossing Details

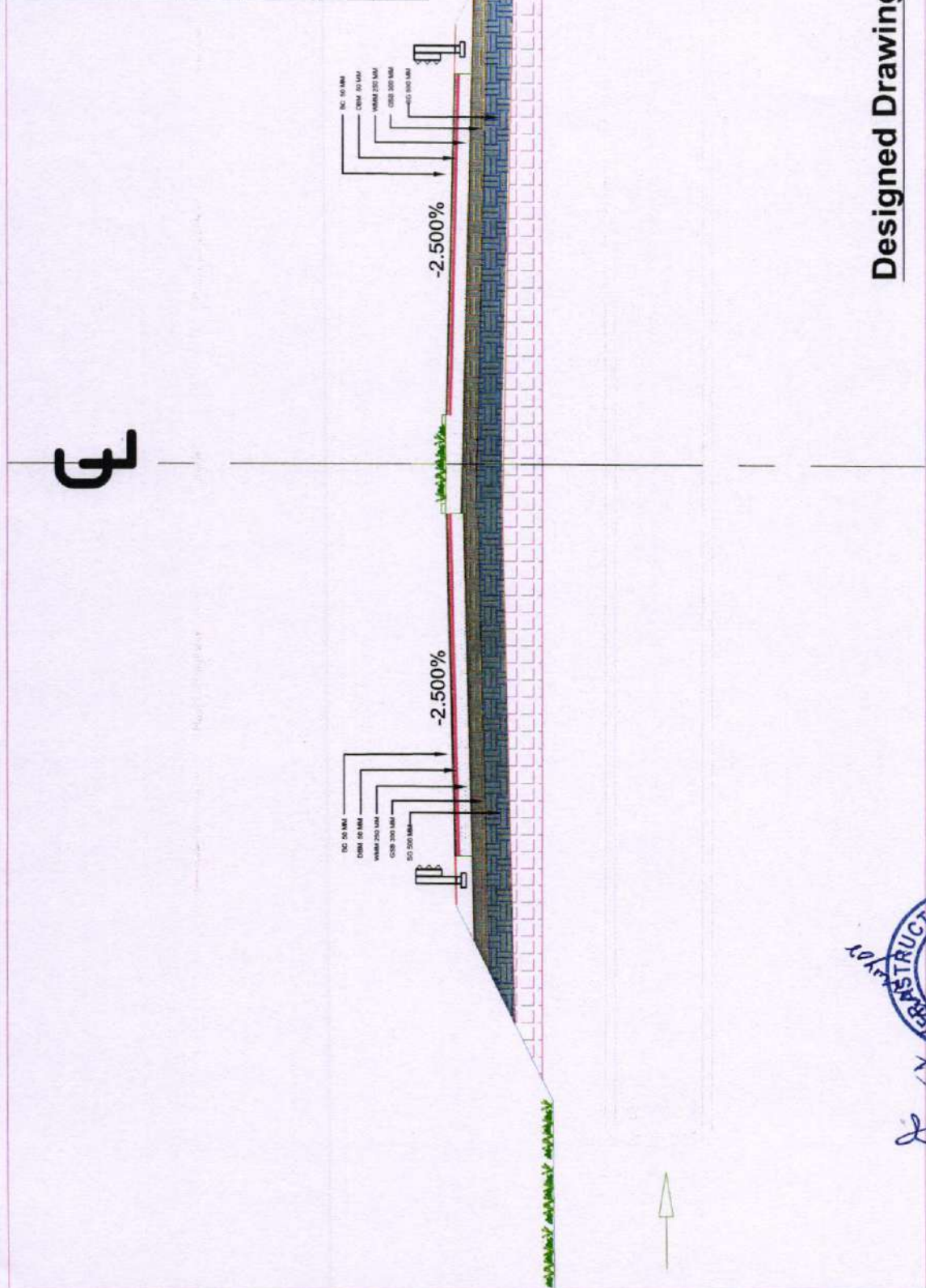
NH no	45
Chainage	16+216
Ø OF Casing PIPE	300 mm
Ø OF Carrier PIPE	100 mm
TYPE OF PIPE	D.I.RG
Method of Excavation	PUSHING

Designed Drawing of Highway Crossing



Raj Nigam
General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
Jabalpur (M.P.)

Highway Crossing Details	
NH no	45
Chainage	23+70
Ø OF Casing PIPE	300mm
Ø OF Carrier PIPE	100 mm
TYPE OF PIPE	DIK 9
Method of Excavation	PUSHING



Designed Drawing of Highway Crossing



General Manager
M.P. Jal Nigam Maryadit
Project Implementation Unit
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CL

Highway Crossing Details

NH no 45

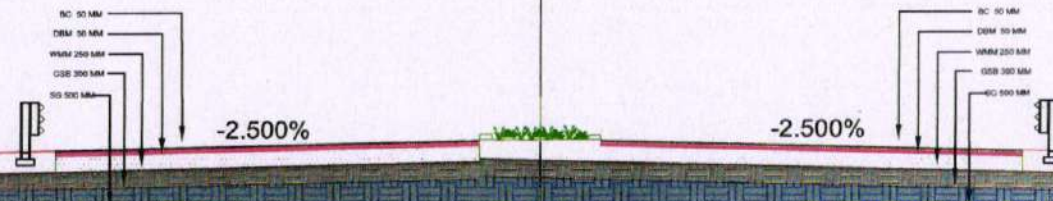
Chainage 25+500

Ø OF Casing PIPE 1200mm

Ø OF Carrier PIPE 1000mm

TYPE OF PIPE DTKS

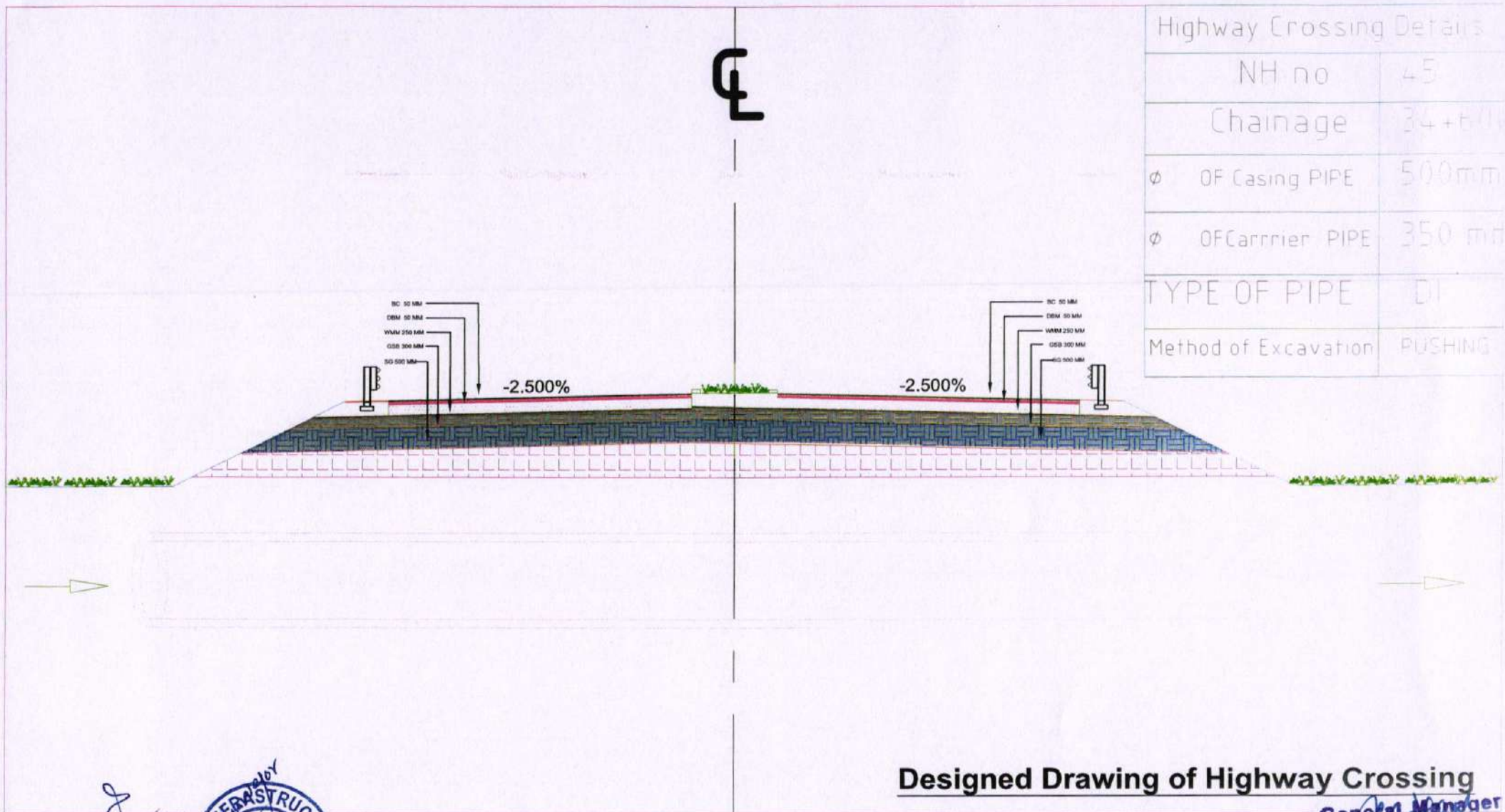
Method of Excavation PUSHING



Designed Drawing of Highway Crossing



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Project Implementation Unit
Jabalpur (M.P.)

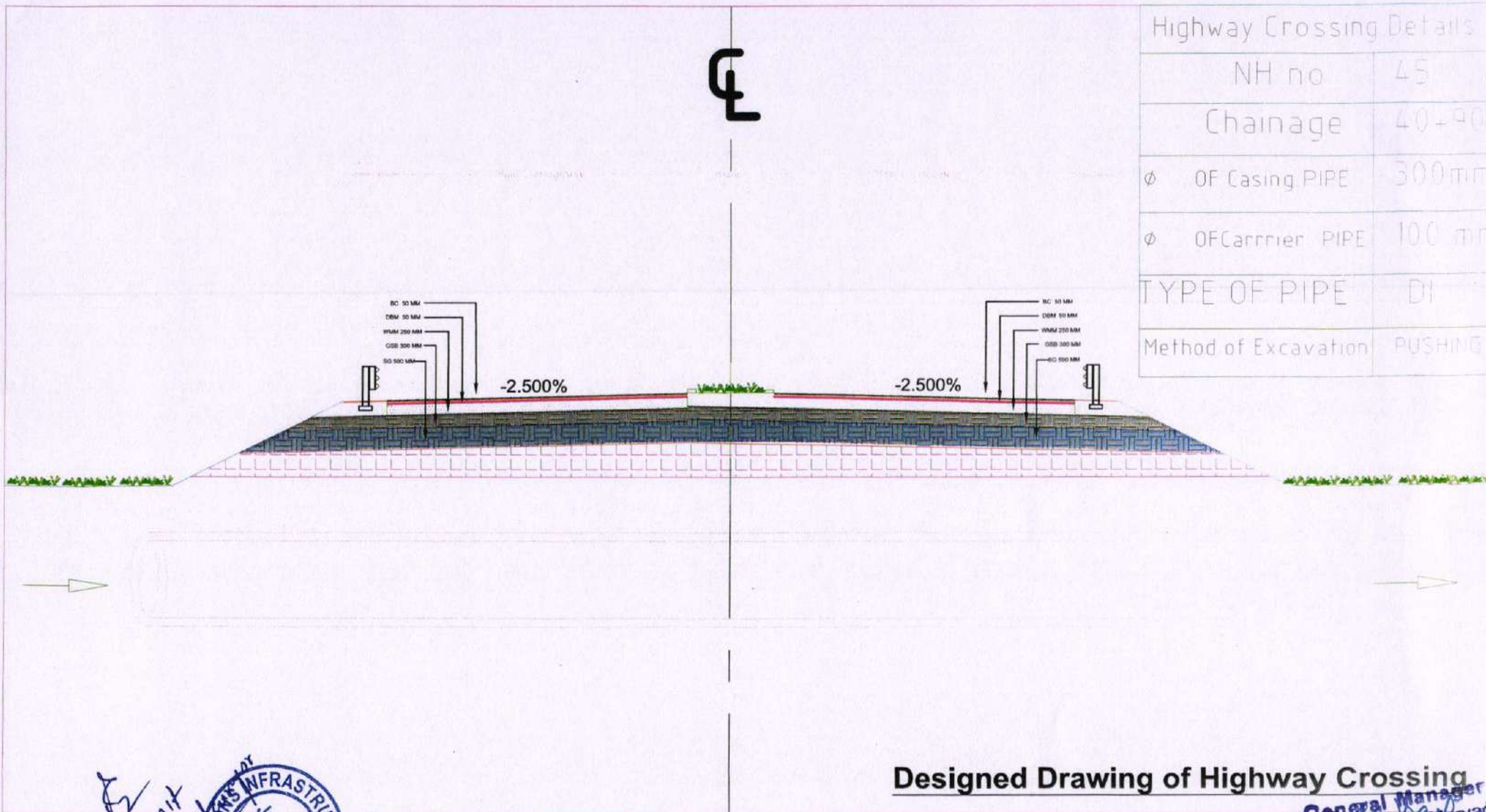


Highway Crossing Details	
NH no	45
Chainage	34+600
Ø OF Casing PIPE	500mm
Ø OF Carrier PIPE	350 mm
TYPE OF PIPE	DI
Method of Excavation	PUSHING

Designed Drawing of Highway Crossing

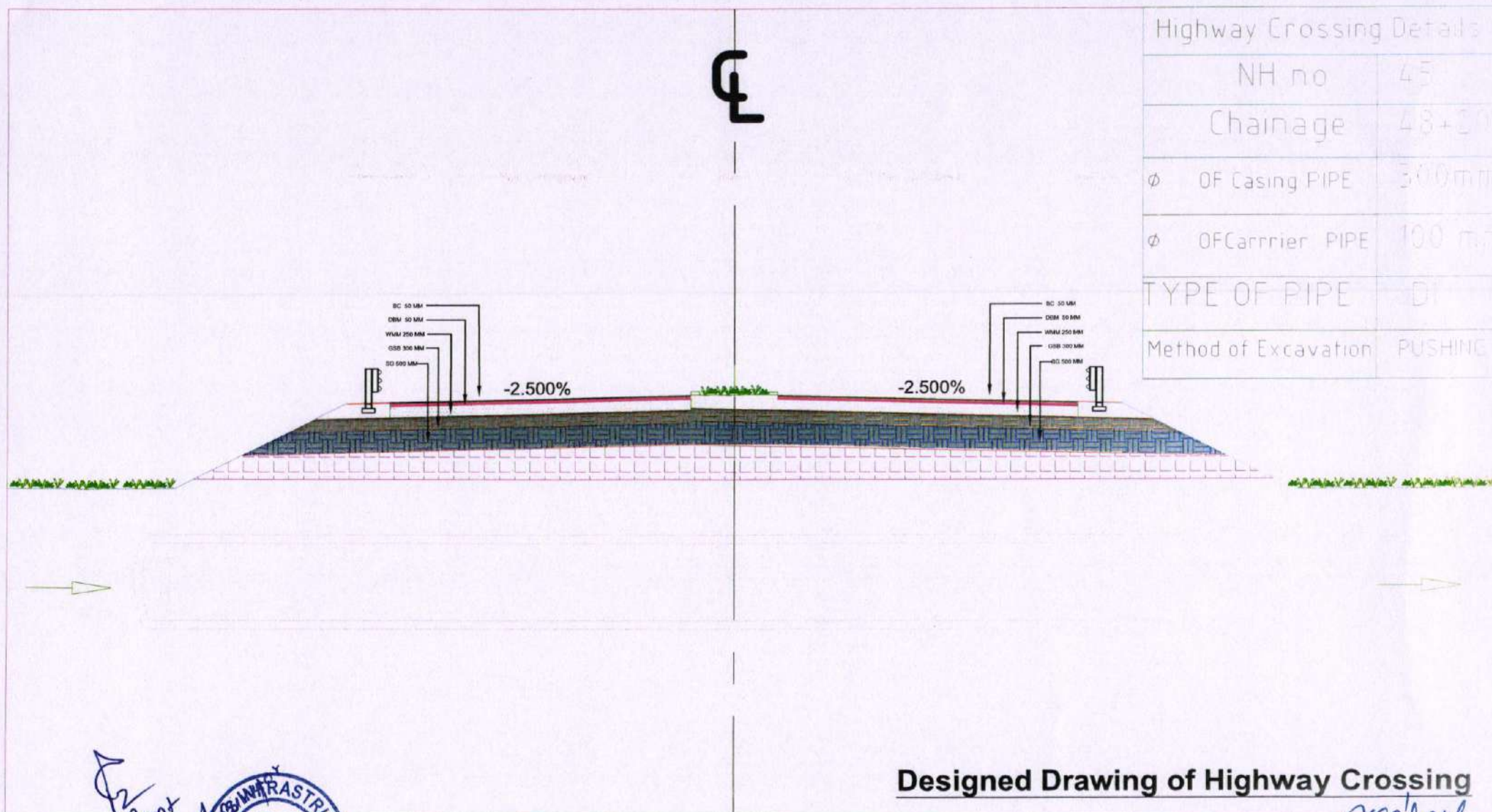
General Manager
M.P. Jal Nigam Maryadit
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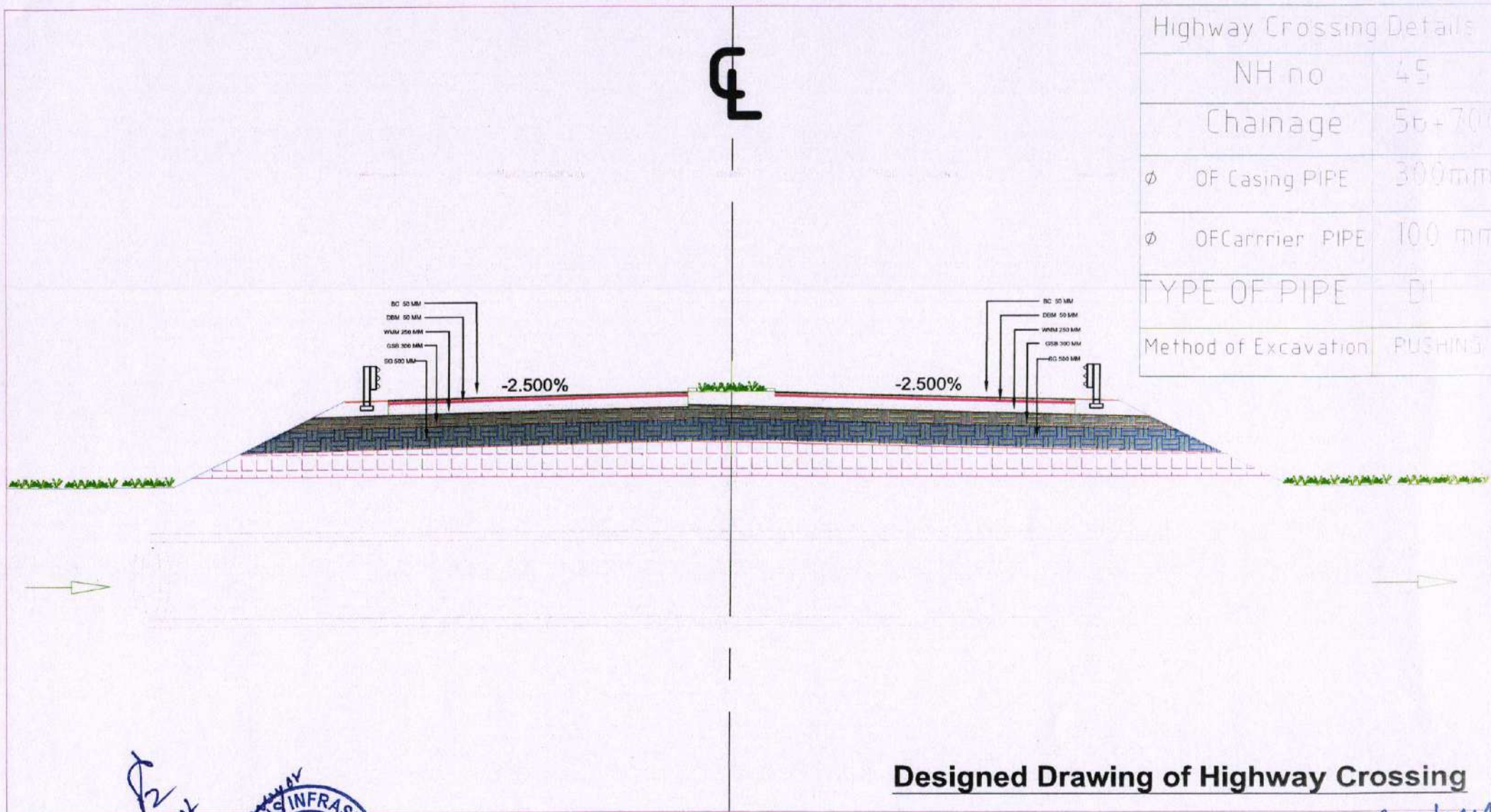
Designed Drawing of Highway Crossing

General Manager
 M.P. Jal Nigam Waryadi
 Project Implementation Unit
 Jabalpur (M.P.)



Designed Drawing of Highway Crossing

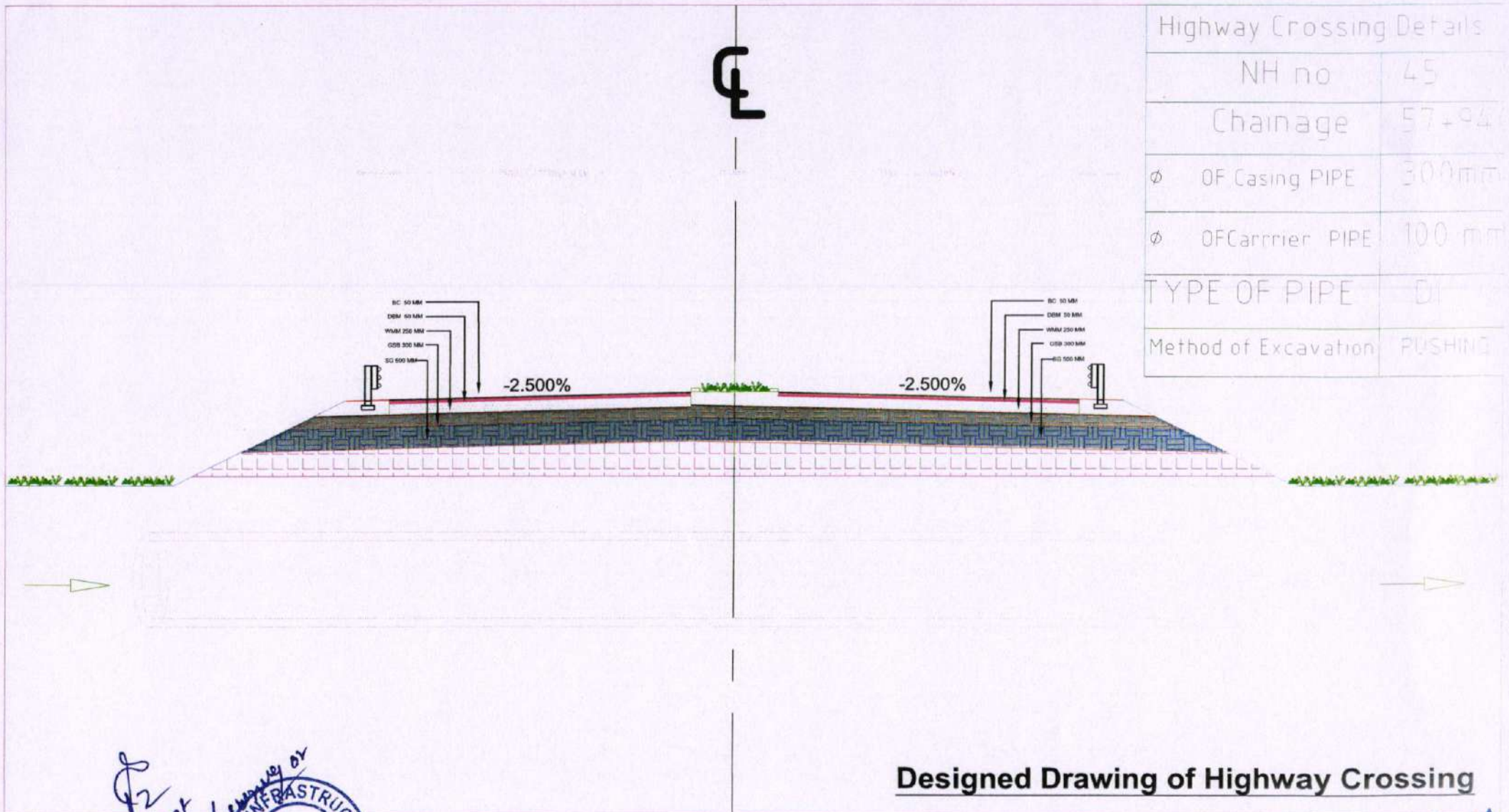
[Signature]
General Manager
 M.P. Jal Nigam Maryada
 Project Implementation Unit
 Jabalpur (M.P.)



Designed Drawing of Highway Crossing



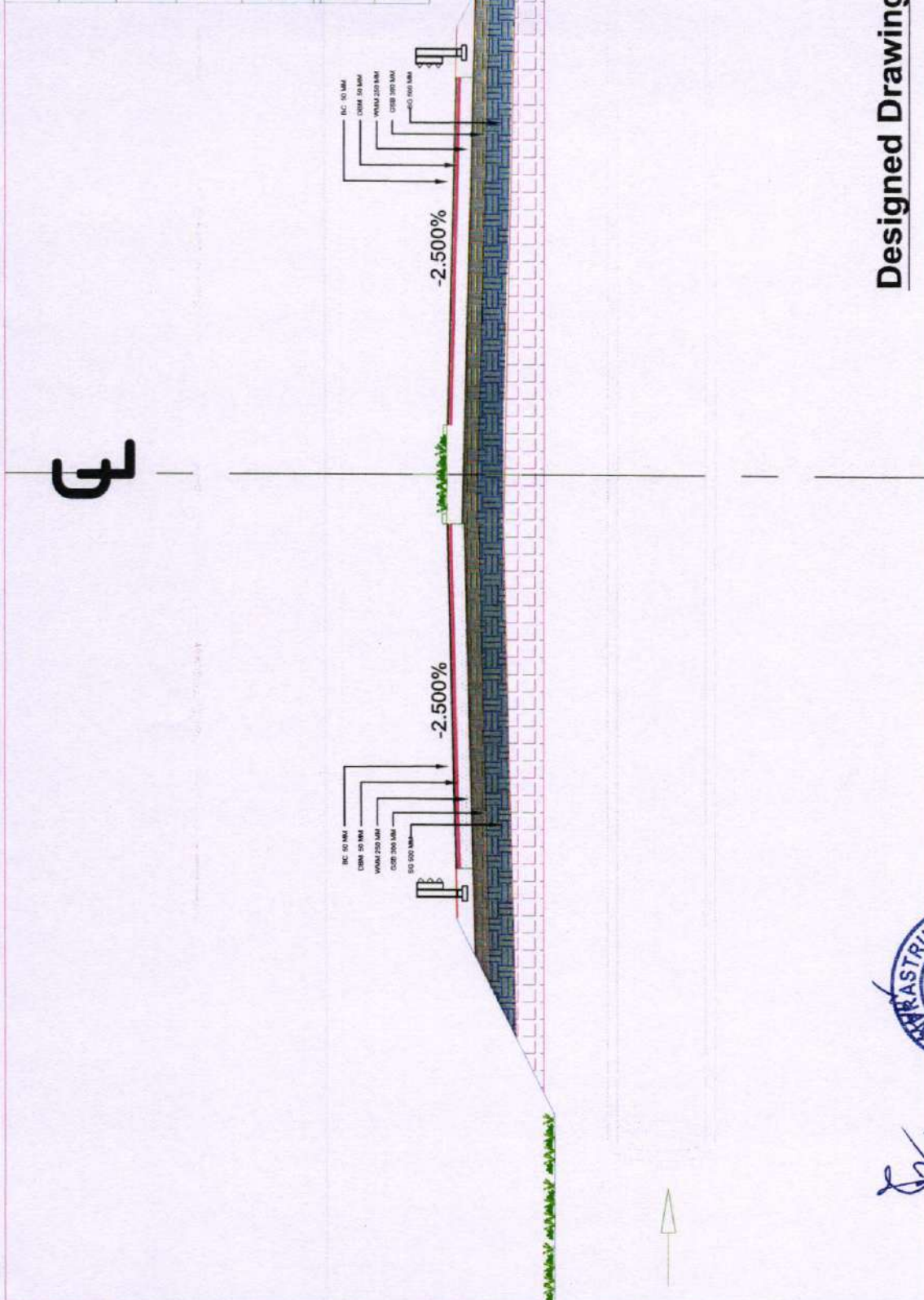
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Designed Drawing of Highway Crossing

General Manager
 M.P. Jal Nigam Maryad
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Highway Crossing Details	
NH no	75
Chainage	61+500
Ø OF Casing PIPE	300 mm
Ø OF Carrier PIPE	100 mm
TYPE OF PIPE	DI
Method of Excavation	



Dr. Arun K. Singh

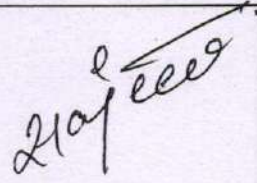
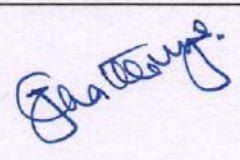
Designed Drawing of Highway Crossing

General Manager
M.P. Jal Nigam Maryadit
Project Implementation Ur
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AFCONS	Method Statement for trenchless method for road crossing.		
DOCUMENT No. MS/3151/PM/009	REV. No. R0	DATE: 20/04/2024	PAGE 1 OF 21

JOB NO:	3151	BU:	Hydro/UG
PROJECT NAME:	Engineering, Procurement, Construction, Testing, Commissioning, Trial Run and Operation & Maintenance of Various Components of Jabalpur Multi-Village.	REV.: R0	DATE: 20-04-2024
DOC. NAME:	Method Statement for trenchless method for road crossing.		
DOC. NO.:	MS/3151/PM/009	Page No.: 1 of 25	
REV.NO		DESCRIPTION	
R0	20 rd April. 2024	ISSUED FOR CONSTRUCTION	

	PREPARED BY	REVIEWED BY	APPROVED BY	CLIENT/SQC
NAME	Mr. Sanjeev Vats	Mr. Mahesh Sharma	Mr. Ganesh Chatterjee	
DESIGNATION	Sr. Planning Engineer	AGM	Project Manager	
SIGNATURE				
DATE	20-04-2024	20-04-2024	20-04-2024	


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Project Implementation Unit
Jabalpur (M.P.)

	Method Statement for trenchless method for road crossing.		
DOCUMENT No. MS/3151/PM/009	REV. No. R0	DATE: 20/04/2024	PAGE 2 OF 21

1. TITLE:

Method Statement for trenchless method for road crossing and Junctions.

2. PURPOSE:

To Understand the total project activities and preparation of an execution plan/scheme. To guide for further planning of manpower, major equipment, specialized agencies and identify critical activities, requirements of method statements, Quality plan for effective project execution.

3. SCOPE:

This procedure covers the requirements for laying of pipeline by trenchless method for Road/highway crossings involved in the project.

4. REFERENCE DOCUMENTS

- PROJECT TECHNICAL SPECIFICATION.
- L SECTION DRAWING.
- ROUTE MAP.

5. RESPONSIBILITY

Sr. No.	Category	Responsibilities
1	Section in-charge	Shall report to the PIC. Shall be responsible for overall implementation and control of construction activities. Shall be responsible for overall monitoring and control of manpower, materials, transportation facilities etc.
2	Site Engineers/Site foremen	Shall report to section in-charge. Shall be responsible for execution of works according to specifications and drawings, ensuring safety at work site.
3	QA/QC Engineer	Shall report site QA/QC in-charge shall be responsible for overall control and inspection of QC activities as per approved QAP at site during erection work.
4	Planning and Monitoring	Responsible for arrangements of adequate resources in time for works and proper planning to utilize resources in prudent manner for completing activities without loss of time
5	Safety Officer	Ensure that safety procedures are followed at site.

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6. EQUIPMENT REQUIRED

The following equipment's shall be used to execute the External coating of field joint for MS Pipe laying work.

Sl. No.	Equipment Description
1	Excavator -1 No.
2	Dumper-10-ton x 2
3	Dewatering pumps-1 no 50hp, 1 no 30hp & 2 no's 10 hp
4	Concrete Mixer
5	Needle vibrator- 60mm & 40mm
6	Compactor- 5 Ton (If Required)
7	Survey equipment's

7. MATERIALS REQUIRED:

Material	Specification
Corresponding Dia pipe along with appurtenances	IS 8329 Class K7 and K9 Pipe
Cement	IS:8112 or IS:12269 – 1987
Coarse Aggregate	As per IS 383-1970, IS 2386 -1963
Crushed sand	Washed and free from earth, clay, organic matter
Water	As per IS Code: 456:2000
Admixture	As per IS Code: 9103:1999
Concrete	As per IS Code: 456:2000
Reinforcement	As per IS Code: 1786:2008

8. RECORDS AND DOCUMENTATION:

- Good for construction drawings (Alignment)
- Technical specifications


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C. Manual Excavation Method




In trenchless construction projects, manual excavation serves as a crucial component in creating pathways for underground utilities or infrastructure without the need for extensive digging or disruption to surface environments. This manual excavation method is particularly employed when traditional mechanical excavators are impractical due to space constraints, sensitivity of surrounding structures, or the need for precision in trench dimensions.

The manual excavation process begins with marking out the boundaries of the trench according to project specifications. Careful attention is paid to the depth and width of the trench to ensure it accommodates the desired utility or infrastructure while minimizing disturbance to surrounding areas. Workers then use shovels and other hand tools to carefully remove soil and debris from the trench, taking care to maintain uniformity in depth and slope along its length. Throughout the excavation process, periodic inspections are conducted to assess soil stability and identify any potential hazards or obstructions.

Once the necessary work within the trench is complete, the backfilling process begins. This involves filling the trench with appropriate backfill material, which may consist of native soil or engineered fill, depending on project specifications. Workers carefully compact the backfill material in layers to ensure proper settlement and stability of the trench. Compaction is typically achieved using hand tampers or mechanical compactors, with emphasis placed on achieving the required density and uniformity throughout the backfilled area.

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D. Sequence of Activities

Before start of work, permission to be obtained from the authorities having legal control.
Prior to start of work- barricades, adequate traffic warning signals should be placed at site.

Jacking Shaft- is an excavation on a planned pipeline site from which equipment needed for direction laboring or tunneling is launched. In trenchless technology jacking shaft plays a vital role in the installation process. Jacking shaft helps overcome obstacles on the pipeline route such as roads, railway lines, canals, and rivers. The jacking shaft used in pipe jacking applications is usually used for installation of large diameter pipelines but can also be used for short crossings.



E. Hard Barricades around Shaft



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Prior to start of work, utilities survey should be carried. Minimum clearance between Pipeline and the existing facilities shall be as per approved drawings. Wherever the buried services are encountered during execution, necessary precaution shall be taken to protect the same.

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Structures Assessment: Preconstruction and post construction assessment reports shall be provided for critical structures, namely those located within the zone of active excavation from the proposed tunnel centreline. Photographs or a video of any existing damage to structures in the vicinity of the pipeline alignment shall be included in the assessment reports. Monitoring reading shall be taken prior to the zone of active excavation reaching that point. When the tunnel face reaches the monitoring point (in plan). When the zone of active excavation has passed and no further movement is detected.

Thrust pit and jacking pit.

Depth of the pit shall be made to required extent to match the centreline of pipe to be laid and as per L-Section.



F. Simple Cyclic Procedure

- Utilize thrust from hydraulic jacks to force the pipe forward.
- People must enter in pipe for excavation.
- Excavation can be manual or machine.
- Pipe installation process from occurs from entrance and exit shaft.
- The pipe shall be used of appropriate strength to sustain load of soil and traffic.
- Prior to send any worker inside the pipe for mining (digging) and removed excavated soil / muck, following requirements must be ensured

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Every worker that enters a confined space will be fully trained on the following: -

- Recognition and identification of potential hazards associated with the confined spaces that will be entered.
- Evaluation and control procedures for the identified or potential hazards.
- Set-up, use and limitations of all equipment such as emergency equipment, ventilation equipment (blowers), hazardous energy control, isolation and lockout equipment, air quality monitors (e.g., oxygen/combustible meters) and other control equipment that will be used while in the confined space.


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- Set-up, use and limitations of all personal protective equipment (e.g., full-body harness, respirators,) that the worker will be using while in the confined space.
- Communication systems and retrieval systems (set-up and operation).
- All safe work procedures for entering the confined space as outlined in the employer's confined space hazard assessment program.
- Procedures to follow in the event of a situation developing that could present additional risk to the worker or an emergency.
- The specific work to be done while in the confined space.
- Work in a manner that will not endanger lives.
- Posting danger signs such as "DANGER—PERMIT-REQUIRED CONFINED SPACE— AUTHORIZED ENTRANTS ONLY" or using an equally effective means at entry point of confined space.



- Availability of rescue kit at work site location. Implement appropriate procedures for summoning rescue and emergency services and preventing unauthorized personnel from attempting rescue.
- A person shall not carry out work in Confined Spaces if it is reasonably practical that it could be avoided
- Hazard Identification and Risk Assessment must be carried out prior to the work commencing
- A person shall not enter a confined space unless there is a system of work in place that has been planned, organized, performed and maintained so as to render that work safe and without risk to health.

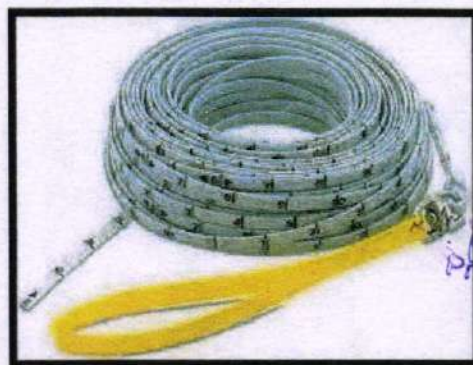
Alan Jay

	Method Statement for trenchless method for road crossing.		
DOCUMENT No. MS/3151/PM/009	REV. No. R0	DATE: 20/04/2024	PAGE 10 OF 21

- Workmen engaged in mining & remove soil/muck, shall not move ahead of the pipe. They shall always work being inside of the pipe and not move ahead where the soil is not supported by the pipe.



- Practically it's very difficult to supervise the workmen movement from outside the pipe. For monitoring / supervising, following arrangements and engineering control shall be implemented during the activity.
- **Distance sensor or RFID Bracelet:** Distance sensor or RFID Bracelet shall use for measurement of distance and positioning of worker inside pipe.
- **Tag line (Conventional Method)/ Surveyor's Rope:** A 12 mm rope of length 50 m will take and make a knot at every 01 meter and marked knot number (symbolic mark or numeric number) one every knot. After that we use this rope to tie with Dring of workman FBH, who domining & remove soil/muck from inside of the pipe. If the length of rope will more inside the pipe by length of pipes, then we can understand, he is working from outside the pipe.



[Signature]
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Jai Nigam Maryad
Project Implementation Unit
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- The pushing of Pipe through soil mass of road embankment is executed by jacking the pipe units with the help of double acting hydraulic jacks reacting against jacking pins in thrust bed and by thrust wall. The first pipe will be followed by no. of pipes till sufficient length is achieved. The

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excavation in soil within pipe shall be done manually and shall not exceed 300 mm at a time after which pipe shall be pushed by 300 mm and then re-excavation shall start and pushing procedure repeated.

- The jack arms are retracted and a "spacer" is added between the jacks and pipe. The jacks are operated and the pipe is pushed forward again. As long as possible to reduce the number of spacers required and thereby reduce the amount of time and cost.
- Jacking is done taking reaction from this thrust bed. Thrust bed shall be of suitable size having thrust wall at the end of thrust bed so that entire jacking force could be transferred to the ground as per site requirement. On completion of drive, this thrust bed will be left in place. Thrust bed will be RCC with nominal M25 grade concrete mix.
- In case of rock or hard soil encounter during excavation, Pneumatic breaker with suitable size of needs to be use & check oxygen level continuously while use pneumatic breaker.

G. Detailed Process

- Conduct an emergency response rescue drill initially at site prior to start the activity to find out the short comes, analyze the rescue arrangement resource availabilities and readiness of ERT in case of emergency.
- Only trained and authorized person shall be engaged in work.
- Entry authorization card shall be issued to all entrants (workmen and staffs)
- A complete pre-job briefing (Pep Talk / Toolbox meeting / On the job training) (including a full discussion of the entry permit) must be completed on daily /starting of each shift, prior to entering any confined space. It is required that entrants and entry supervisors be trained (in general sense) on confined space entry: the pre-job briefing may serve as both "refresher" and site-specific training.

Preparation for Entry:

The following general steps will be taken before entry into a confined space:

- Positive Isolation, if required
- Decontamination, if required
- Cleaning/purging, if required
- Atmosphere evaluated as safe.
- Provision of personal protective equipment (PPE)
- Safety alarm device (PASS) / Safety system (tag line etc.)
- Identify a Confined Space Entry Supervisor
- Instruct attendant/ standby person(s)
- Certification by way of a Confined Space Entry Permit
- Obtain a Permit to Work (excavation permit) in accordance with requirements of
- Obtain a Confined Space Entry Permit in accordance with requirements.

[Signature]
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- Test communication equipment (mobile or portable radio etc.)
- Means of access/egress and means of rescue identified and secured.

Acceptable environments condition / Limits for safe workmen entry shall check as per below table.


Acceptable Environmental Conditions/Limits for Safe Workmen Entry		
S. No	Particular	Limit
1	Hydrogen Sulphide (H ₂ S)	1 PPM
2	Carbon Monoxide (CO)	25PPM
3	Lower Explosive Limit	<10 %
4	Oxygen (O ₂)	19.5 % to 23.5%

H. Health Hazards during execution:

- **Oxygen Deficiency:** Oxygen level may fluctuate as the length of the excavation and time increases (generally after 10-12 m length).
- Effects of exposure to low oxygen concentrations can include giddiness, mental confusion, loss of judgment, loss of coordination, weakness, nausea, fainting, loss of consciousness and death. Blood absorbs oxygen from the air in our lungs to fuel the cells in our bodies.
- Deficiency of oxygen in the environment has adverse effect on health. Below is the adverse effect on health with different range of "% oxygen content" in environment.

O₂ Concentration 21% Symptoms Natural air 	O₂ Concentration 18% Symptoms Limit level for not causing serious health problems. Continuous ventilation is required 	O₂ Concentration 16% - 12% Symptoms Rapid breathing, Increase in pulse rate, Loss of concentration, Headache, Nausea, Ear ringing 
O₂ Concentration 14% - 9% Symptoms Stupor, Headache, Nausea, Cyanosis, Faintness on the entire body 	O₂ Concentration 10% - 6% Symptoms Comatose, Loss of consciousness, Muscle spasm on the entire body 	O₂ Concentration 6% or less Symptoms Unconsciousness, Comatose, Cessation of breathing, Cardiac arrest, Die in 6 minutes 

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- Working in low oxygen deficiency environment for long time may cause of chronic or non-chronic diseases.
- Hypoxemia and Hypoxia are disease which may be due to oxygen deficiency environment.
- **Hypoxemia:** Having low oxygen levels in your blood are called hypoxemia. Blood carries oxygen to the cells throughout your body to keep them healthy. Hypoxemia can cause mild problems such as headaches and shortness of breath. In severe cases, it can interfere with heart and brain function.

A variety of conditions and circumstances can interfere with the body's ability to deliver normal levels of oxygen to the blood-

- Heart conditions, including heart defects.
- Lung conditions such as asthma, emphysema, and bronchitis
- Strong pain medications or other problems that slow breathing.
- Sleep apnea (impaired breathing during sleep)
- Inflammation or scarring of the lung tissue (as in pulmonary fibrosis)
- **Hypoxia:** Hypoxia is a condition in which the body or a region of the body is deprived of adequate oxygen supply at the tissue level.

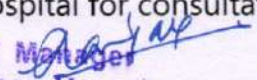
A variety of conditions and circumstances can interfere with the body's ability to deliver normal levels of oxygen at the tissue level-

- Severe asthma attack
- Hypoxia can also result from lung damage due to trauma

The lower the oxygen level, the more severe the hypoxemia. This can lead to complications in body tissue and organs. Normally, a PaO₂ reading below 80 mm Hg or a pulse ox (SpO₂) below 95 percent is considered low.

(Note: An oxygen level below 88% can be dangerous for any period of time. An oxygen level below 85% warrants a trip to the hospital. Keep in mind that an oxygen level 80% and lower puts your vital organs in danger, so it is important to keep a blood oxygen level chart handy so you know what levels require immediate treatment.)

So oxygen level in blood of workman should be checked by oxy pulse meter and SpO₂ reading shall be record. If (SpO₂) value comes below 95%, immediately worker shall be sent to hospital for consultation with doctor.


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Pulse Oximeter

10.0 Safety Hazards during execution:

Hazards	Control Measure
Tunnel Excavation	
<ul style="list-style-type: none"> • Face Stability • Ground water inundation • Ingress of Hazardous Material • Unexpected obstructions, both naturally occurring and manmade • Over / under excavation 	<ul style="list-style-type: none"> • Face stabilization • Monitor and control rate of excavation. • Manage/ control water ingress. • Ventilation • Non-intrusive survey
Confined Space/ Tunnel Environment	
<ul style="list-style-type: none"> • Environmental Conditions • Restricted access • Fire • Slippery surfaces • Underground plant 	<ul style="list-style-type: none"> • Atmospheric Monitoring • Ventilation • Restrict Access • Use permit system • Training • Competence • Planning • Emergency response • Housekeeping • Fire suppression
Man / Machine interface	

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- | | |
|--|---|
| <ul style="list-style-type: none">• Contact with exposed moving parts• Uncontrolled movement of hydraulic jacks | <ul style="list-style-type: none">• Safe system of work• Planning and set-up• Segregation• Guarding• Competent operative and operators• Effective communication system• Failsafe system• Behavior based safety |
|--|---|

Stored Energy

- | | |
|---|--|
| <ul style="list-style-type: none">• Electrical equipment• Pneumatic system• Hydraulic system• High pressure water system• Slurry and slurry separation system | <ul style="list-style-type: none">• Safe system of work• Competent personnel• Inspection/ maintenance regime• Isolation protocols• Pressurized system trailing |
|---|--|

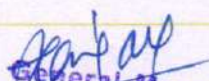
Material usages

- | | |
|--|--|
| <ul style="list-style-type: none">• Manual handling• Pipe handling and storage• Slurry• Spoil• Additives and chemicals | <ul style="list-style-type: none">• Material usages• Training and competence• Mechanical handling, where practical• COSHH assessment and awareness• Adequate ventilation• Appropriate PPE |
|--|--|

Working at Height /depth

- | | |
|---|---|
| <ul style="list-style-type: none">• Operatives falling down shaft• Tools or materials falling down shaft• Access/egress | <ul style="list-style-type: none">• Safe system of work• Training and competence• Security• Adequate barriers• Scaffolding• Use of MEWPs, where practical• 2 means of access /egress from shaft |
|---|---|

Lifting Operations


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- Working over shafts
- Working within compounds
- Lifting over personnel
- Interaction with the public / traffic

- Lifting Operations
- Training and competence
- Lift planning and supervision
- Communication
- Certified plant and equipment
- Periodic inspection regime
- Properly planned site set-up
- Avoiding of lifting over personnel
- Safe areas in pit bottom
- Workmen position marking inside shaft

Occupational Health Issue

- Noise
- Air quality
- Vibration
- Heat
- Eye injury/damage
- Weil's disease
- Working hours (shift patterns)

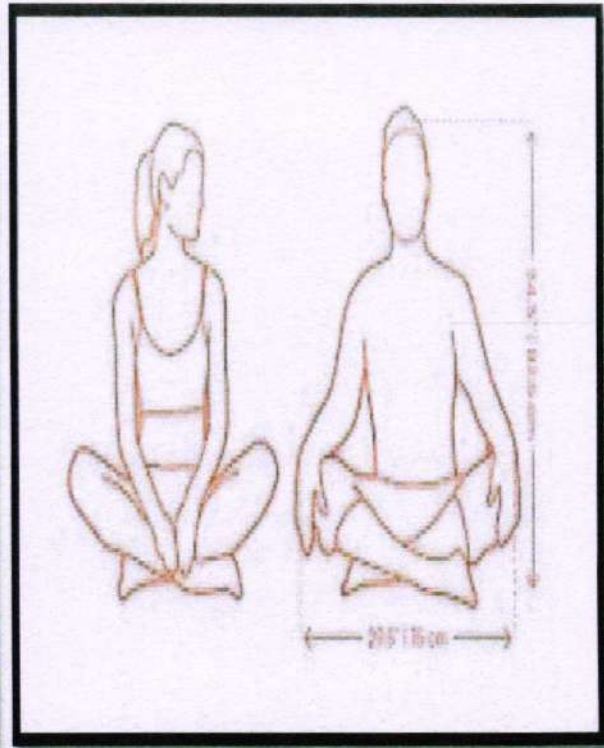
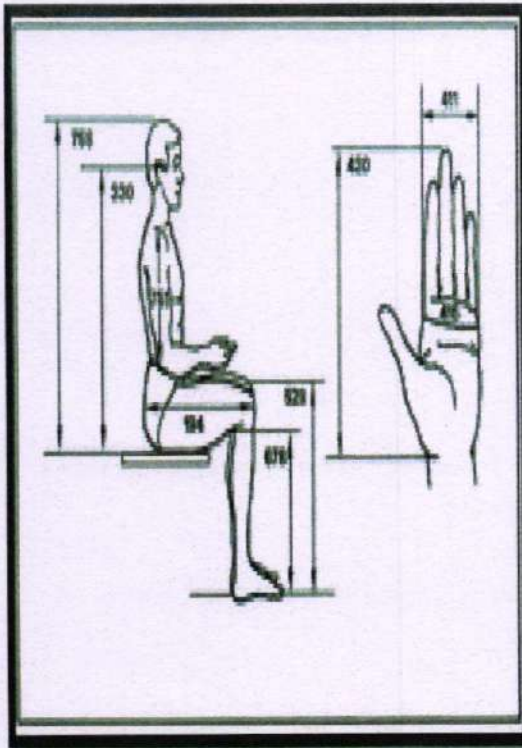
- Occupational Health Issue
- Constructing better health
- Behavioral based safety
- Regular health surveillance
- Monitoring conditions
- Minimize exposure.
- Appropriate PPE for the task.

• Ergonomic Hazard / Working Postures

Working posture is the posture adopted by an employee while performing work tasks. The number of angles defining body posture depends on the level of accuracy. Work posture is closely correlated with the performed activity and the work productivity.

An average Indian man height while sitting in ground level is 875 mm as per Ergonomic and Anthropometric measurements. Considering the above scale, minimum diameter is required for safe working is 900 mm.


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- **Local Exhaust Ventilation / Air Blower:**

A fresh air blower ventilation system is set-up to improve the oxygen and fresh air level inside the pipe before and during the excavation and muck removal.



Due to space constraint at the entry point and no exit route for air, Local Exhaust Ventilation system may not work properly.

Also, in greater length distance (12m + length) LEV (Portable) is not effectively work due to this fresh air was not reach at work spot.




Local Exhaust Ventiation



Air Blower

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Confined Space Entry Authorized Permit Issuer

a. Complies with the requirements as defined in this procedure and other permits; in particular, approves entry to and monitoring of the confined space, Confined Space Data Sheet, isolations, and the attendant/standby person.

Confined Space Entry Permit Recipient/ Task Supervisor

Complies with the requirements as defined in this procedure and other relevant permit-related procedures and must:

Understand the hazards associated with each specific confined space.

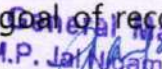
Ensure that a documented Risk assessment is conducted prior to the commencement of work, and at any time the scope of work changes. The Risk assessment shall include selection of appropriate control measures for the method of works elected, equipment and substances to be used, using the hierarchy of controls.

- Understanding the consequences of exposure to the hazard(s), and ensuring that all indicated safeguards are provided.
- Secures the Confined Space (e.g. mechanical guards, fencing, flags, signs, barriers and lighting etc.) to prevent unauthorized access to the Confined Space.
- Develop and submit a specific rescue plan, prior to obtaining the Confined Space Entry Permit. This will include specific information on communication method of rescue, rescue/ medical equipment required, designated personnel and any additional PPE required.
- Maintain contact with the Confined Space attendant/standby person.
- Ensure that the Emergency Management and an Incident response rescue plan are understood by all personnel involved. An emergency response rescue drill is required to be conducted, prior to entering any registered Confined Space.
- Ensure for ventilation arrangement.

Emergency Preparedness (Mock drill), Response and Recovery

Emergency Preparedness is the process of turning awareness of the natural hazards and risks faced by a community into actions that improve its capability to respond to and recover from untoward situations. Emergency Response includes any systematic response to an unexpected or dangerous occurrence. The goal of an emergency response procedure is to mitigate the impact of the event on people and the environment.

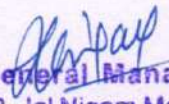
Emergency Recovery efforts are primarily concerned with actions that involve rebuilding destroyed property, re-employment, and the repair of other essential infrastructure. The goal of recovery is to return the community's systems and activities to normal.


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Objective: The broad objectives of the Mock Exercise are as given below:

- To review Emergency Response Plans.
- To evaluate the Emergency Response Plan.
- To identify the efficiency of OCPs.
- To highlight the roles and responsibilities of all functional departments.
- Enhance coordination among Emergency Support Functions of All department.
- To generate awareness by involvement of all (workmen, supervisor and staff).
- To identify the gaps in resources, manpower, communications and in any other field.
- To enhance the ability to respond faster.


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