



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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

क्षेत्रीय कार्यालय/REGIONAL OFFICE

ई-2/167, अरेरा कॉलोनी, रानी कमलापती रेलवे स्टेशन के पास, भोपाल-462 016 (म.प्र.)

E-2/167, Arear Colony, Near Rani Kamlapati Railway Station, Bhopal-462 016 (M.P.)

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

NHA/RO-MP/IND/Pipeline/I-G/Dhulet (Dhar)/2022/47255

Date: 19.07.2022



सत्यमेव जयते



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Invitation of Public Comments

Sub: Balance work of 4 laning of Indore-Gujarat/MP Border from Km 106.210 to 115.250 (Start and end point of Bird Sanctuary) Km 121.740 to Km 127.140 (Machaliya Ghat Section) and Forest portion Km 149.800 to Km 150.850, Km 158.250 to Km 158.850 of NH-47 (Old-59) on EPC mode in the state of Madhya Pradesh - **Permission for laying of clear water pipeline crossing at Km 108+200 and Parallel in right side from Km 106+200 to 108+500 and left from 108+100 to 108+500 at NH-47 near Dhulet (Dhar) location by pipe pushing method (Trenchless method) under Ringnod MVRWSS Distt.-Dhar- Reg.**

Ref: PD, PIU-Indore letter no. NHA/PIU/IND/I-G(Machaliya)/Water Pipeline/Ringnod/2022/896 dated 13.06.2022.

Vide above reference proposal for permission for laying of clear water pipeline crossing at Km 108+200 and Parallel in right side from Km 106+200 to 108+500 and left from 108+100 to 108+500 at NH-47 near Dhulet (Dhar) location by pipe pushing method (Trenchless method) under Ringnod MVRWSS Distt.-Dhar.

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 till 18.08.2022 beyond which no comments will be considered.

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

This issues with the approval of Regional Officer cum Highway Administration.

(Abdulla Javed Azmi)
DGM (Tech.)

Copy to:

- Web Admin, NHAH-HQ-with request for uploading on the NHAH website.
- The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.
- The Project Director, NHAH, PIU-Indore (M.P.) for information.
- The General Manager, Madhya Pradesh Jal Nigam Maryadit, PIU-Indore, Narmada Project Campus, Musakhedi, Building No. 1, Indore (M.P.)-452001 for information.

CHECK-LIST

Guidelines for the Project Directors for processing the proposal of laying water Supply pipe line for Madhaya Pradesh Jal Nigam Maryadit PIU Indore in the land trough National Highway vested with NHAI in trench less

Relevant Circulars

1. Ministry Circular No.RW/ NH--033044/17/2000-S&R Dated 29.09.2000.
2. Ministry Circular No.NHAI/OEC/2K Vol.-II Dated 07.11.2000, Which includes the comprehensive guideline and draft license agreement for laying of water supply pipeline by private party in the land along National highway vested with NHAI
3. Ministry's Circular No.RW/ NH--033044/17/2000-S&R Dated 21.03.2006. it is regarding the modification of previous ministry's Circular enhancing the amount of performance Bank Guarantee @ Rs. 50/- per route meter in place of earlier rate of Rs 25/- Per route meter
4. Ministry's Circular No.RW/ NH--033044/17/2005-S&R Dated 21.03.2006. it is regarding the modification of previous ministry's Circular enhancing the amount of performance Bank Guarantee @ Rs. 100/- per route meter in place of earlier rate of Rs 50/- Per route meter
5. NHAI's Policy Matter. Technical (173/2015) dated 06.02.2015.
6. F.No/ RW/NH-33044/29/2015S&R ® dated 22nd Nov 2016

S.No.	Item	Information/status	Remarks
1	General Information	Yes attached	ANNEXURE -I
1.1	Name and Address of the Applicant	The General Manager, MPJNM PIU Building No. 1 Narmada Project, Musakhedi Indore (M.P.) 452001	-
1.2	National Highway Number	NH - 47	-
1.3	State	Madhaya Pradesh	-
1.4	Location (Village Name)	Dhulet	-
1.5	(Chainage in km)	National Highway No- 47 crossing at Km 108+300 & parallel laying at RHS from Km 106+200 to 108+300 & LHS side laying from 108+100 to 108+500	-
1.6	Length in Meter	60 Mtr. Across the Road	-
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/km direction	30 Mtr.	
	(b) Right side from center line towards increasing chainage/km direction	30 Mtr.	
1.8	Proposal to lay clear water pipe line		
	a) Left side from center line towards increasing chainage, at km direction	0.4 Km	
	(b) Right side from center line towards increasing chainage/km direction	2.1 Km	
1.9	Proposal to acquire land		
	(a) Left side from center line	No	
	(b) Right side from center line	No	
1.10	Whether proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the pipe	Perpendicular Crossing by trench less method	
1.11	Details of already laid services, if any, along the proposal route	Nil	
1.12	Number of lanes (2/4/6/8 lanes) existing	Proposed 4 lane Highway (Project under progress)	
1.13	Proposed Number of lane (2 lane with paved shoulders/4/6/8 lanes)	4 Lane	
1.14	Service road existing or not	No	
	If yes then which side		
	(a) Left side from center line	-	
	(b) Right side from center line	-	


1.15	Proposed service road	NA	
	(a)Left side from center line	-	
	(b)Right side from center line	-	
1.16	Whether proposal to lay pipeline is after the service road or between the service road and main carriage away	in main carriage way Perpendicular Crossing by trench less method	parallel form center to 30 mtr.
1.17	The permission for laying MS pipeline shall be considered for approval/rejection.	Consider for the approval.	
	(I) Where us ROW is more than 45 Mtr. Them the MS pipe shall be laid at the edge of right of way within the utility corridor of 2 Mtr. Width , duly keeping in view the future widening .		
	(II) Where land is yet to be acquired for 4 lining 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 Mtr. Width on that of existing carriage way , where extra land is not proposed to be acquired for 4- lining .		
	(III) Where the widening plan for 4-laning is not yet decided and available ROW is around 30 Mtr. Or less a judicious decision would need to be taken for permitting the laying of pipeline. This could be within 1.5 Mtr. To 2 Mtr. Of utility corridor at edge of existing ROW, duly keeping in view the possible widening plan.		
	(IV) Were ROW is restricted and adequate only to accommodate the carriageway, central verge , shoulders and drains (e.g. highways in cutting thought hilly / rolling terrain) , the MS pipe shall be laid clear of the drain.		
	(V) Where land strip for strip for utility corridor cannot be conveniently earmarked (available ROW restricted to the toe of the earmarked) for laying of pipeline , the permission may be refused.		
1.18	No. of applicant on the same stretch	-	
1.19	Whether the case of multiple licenses whether the case of multiple license	No	
1.20	If so furnish a joint implementation programmer to lay their respective pipeline within stipulated time frame	NA	
1.21	If the crossing of the road involved ,If YES it shall only be through trench-less technology	YES (Trench less Method)	
2	Documents/ Drawing enclosed with the proposal	YES	
2.1	Cross section showing the size of trench for open trenching method (is it normal size 1.65 Mtr. Eep / 0.05 Mtr. Wide). Should not br given than 1.2 Mtr. In width in multiple ducts.	No (Trench less Method)	
2.2	Cross section showing the size of path and location of pipe for HDD method.	yes attached	ANNEXURE -II
2.3	Strip plan / route plan showing the MS pipeline, Line Chainage, width of ROW ,distance of proposed pipe line from the edge of ROW , important mile stone, intersections, cross drainage work etc.	yes attached	ANNEXURE -III
2.4	Methodology for laying of pipe Line.	yes attached	ANNEXURE -IV
2.4.1	Open Trenching Method , If yes, Methodology of refilling of trench .	NA	
2.4.2	Horizontal Direction Drilling (HDD) method	Only for Road Crossing	
2.4.3	Laying of MS pipe line through CD works and method of laying (Whether to be hung outside	NA	
3	Draft License Agreement signed by two witnesses	Yes	

4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs. 50/- per running meter (parallel to NH) and Rs. 1,00,000/- per crossing of NH, for 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 execution of wrenching atleast 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for		
4.1	Performance Bank Guarantee as per above is to be obtained.	Will be submitted as per the demand of NHAI	
4.2	Confirmation of BG has been obtained as per NHAI guidelines.	Will be submitted as per the demand of NHAI	
5	Affidavit /Undertaking from the applicant for		
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned	YES ENCLOSED	ANNEXURE -V
5.2	Renewal of Bank Guarantee	YES ENCLOSED	
5.3	Conforming all standard condition of NHAI	YES ENCLOSED	
5.4	Shifting of pipeline as and when required by NHAI at their own cost.	YES ENCLOSED	
5.5	Shifting due to 6 lanning /widening of NH	YES ENCLOSED	
5.6	Indemnity against all damages and claims clause (XXIV)	YES ENCLOSED	
5.7	Traffic movement during laying of MS pipeline to be managed by the applicant.	YES ENCLOSED	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant	YES ENCLOSED	
5.9	Certificate for 6- lanning from the applicant in following format " We do undertaking that I will relocate service road / approach road /utilities at my own cost not with standing the permission granted within such time as will be stipulated by	YES ENCLOSED	
6	Power of attorney in favour of authorized signatory	YES ENCLOSED	
7	Copy of DOT Licence		
8	Certificate from the Project Director.		
8.1	Certificate for conforming of all standard condition issued vide Ministry circular no. RW/NH/033044/17/2000-S& R Dt 29.09.2000 and NHAI guideline issued vide No. : NHAI guideline issued vide no. : NHAI/OEC/2K/Vol II dated 07.11.2000 and Ministry's circular no : RW/NH-33044/27/2000- S&R dated 21.03.2006	YES ENCLOSED	
8.2	Certificate for PD in the following Format		
	a) Where feasibility is available " I do certify that there will be no hindrance to proposed six laning based on the feasibility report considering proposed structures at said location " (b) In case feasibility report is not available " I do certify that sufficient ROW is available at side for accommodating proposed six laning".	YES ENCLOSED	
9	The agreement fee of Rs 1 Shall be changed.		

10	If NH Saction proposed to be taken up by NHA1 on BOT basis a clause is to be inserted in the agreement . <i>(The permitted Highway on which licensee has been granted the right to lay pipe line has also been granted as a right of way to the concessionaire under the agreement for up gradation of DHAR to JHABUA section from KM 263+870 to KM 273+600 of NH 47 on Build, Operate and Transfer Basis) and therefore, The</i>	YES ENCLOSED	
11	Who will supervise the work of laying MS pipe	M/s Technodriller 38, Vallabh Nagar ,Panchpedi Chowk, Raipur (C.G.) 492001	
12	Who will ensure that the defects in road portion after laying of MS pipe Line are corrected and if not correected then what action will be taken.	M/s Technodriller 38, Vallabh Nagar ,Panchpedi Chowk, Raipur (C.G.) 492001	
13	Who will pay the claims for damages done/disruption in working of oncessionaire if asked by the concessionaire.	M/s Technodriller 38, Vallabh Nagar ,Panchpedi Chowk, Raipur (C.G.) 492001	
14	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed). Issued vide ministry circular No. RW/NH-033044/17/2000/S&R Dated 23.07.2003	YES ENCLOSED	
15	If any previous approval is accorded for laying of Overhead Power Transmission then photocopy of register of records of permissions accorded as maintained by PD as per ministry circular No. RW/NH-033044/17/2000/S&R Dated 23.07.2003 as referred in para 13 above is enclosed or not.	NO ANY PREVIOUS APPROVAL	


SANJEEV RAJWADE
TEAM LEADER
SQC, TUV-SUD, INDORE


Deputy Manager
MPJNM, PIU, INDORE


Manager
M.P. Jal Nigam Maryadit MPJNM, PIU, INDORE


General Manager
MPJNM, PIU, INDORE


Resident Engineer
Anit Mandoakar
TUV SUD, SQC Indore
Rignod MVRWSS


A.R.E
TUV SUD, SQC Indore

LEGENDS:-

EXISTING PLAN DESIGN PLAN	
PROPOSED CL	
MEDIAN	
SW EDGE	
PAVED SHOULDER	
UNPAVED SHOULDER	
RAIN	
FOOTPATH	
SERVICE ROAD	
ARTHWOR	
GW	
IND. BRIDGE	
BOX CULVERT	
PIPE CULVERT	
GHY/ ELECTRIC POLE	
TRANSFORMER	
SIGNBOARD	

PROFILE

CENTERLINE	
X. MEDIAN LVL AT CE.	
DGL LHS @20 M	
DGL RHS @20 M	
VERTICAL	
HORIZONTAL	
SUPERELEVATION	
CHAINAGE	
MINOR BRIDGE	
BOX CULVERT	
PIPE CULVERT	

300 mm ϕ water pipe line

Resident Engineer
Anit Mandoakar
TUV SUD, SQC Indore
Rignod MVRWS

SANJEEV RAJWADE
TEAM LEADER
SQC, TUV-SUD, INDORE

Deputy Manager
MPJNM, PIU, INDORE

M.P. Jal Nigam
PIU, INDORE

PROPOSED CL	
LAN	
EDGE	
ED SHOULDER	
THEN SHOULDER	
IN	
PATH	
ICE ROAD	
THWORK	
N	
OF DGE	
X CULVERT	
E CULVERT	
HT/ ELECTRIC POLE	
ANSFORMER	
INBOARD	

FILE	
CENTERLINE	
K. MEDIAN LVL AT CE.	
OGL LHS @20 M	
OGL RHS @20 M	
VERTICAL	
HORIZONTAL	
SUPERELEVATION	
CHAINAGE	
MINOR BRIDGE	
BOX CULVERT	
PIPE CULVERT	

★ DIK-9 300 mm ϕ water Pipe Line

Resident Engineer
Anit Mandoakar
TUV SUD, SQC Indore
Rignod MVRWS

Deputy Manager
MPJNM, PIU, INDORE

A.R.E
TUV, SUD, SQC, Indore.

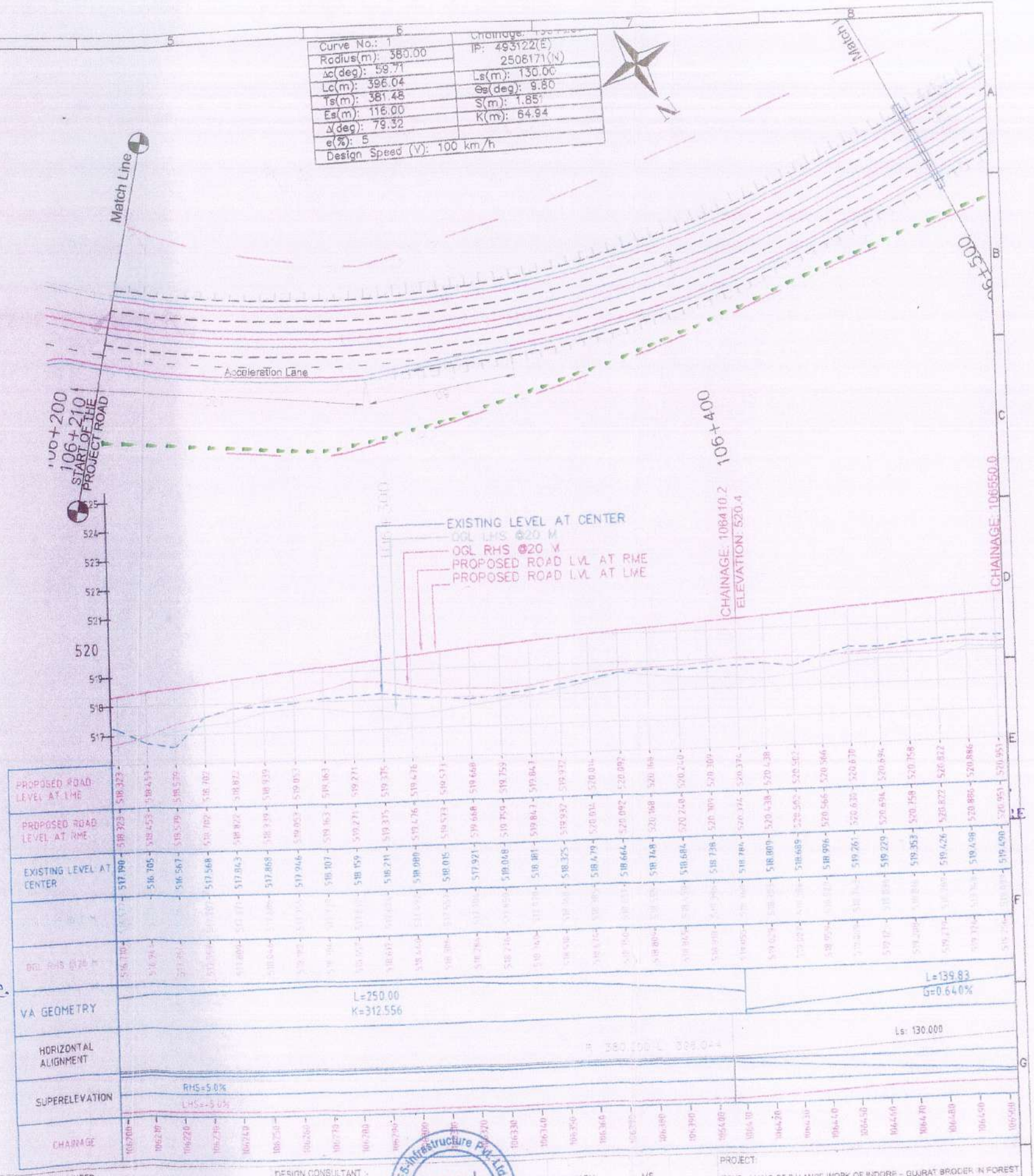
SANJEEV RAJWADE
TEAM LEADER
SQC, TUV-SUD, INDORE

General Manager
MPJNM, PIU, INDORE

Manager
M.P. Jal Nigam Maryadit
PIU, INDORE



Curve No.: 1	Chainage: 106+200
Radius(m): 380.00	IP: 493122(E)
Δ(deg): 59.71	2508171(N)
Lc(m): 398.04	Ls(m): 130.00
Is(m): 381.48	Es(deg): 9.80
Es(m): 116.00	S(m): 1.85
Δ(deg): 79.32	K(m): 64.94
e(%): 5	
Design Speed (V): 100 km/h	



CLIENT: M.P. Jal Nigam Maryadit, PIU, INDORE

SAFETY CONSULTANT: G-ENG ADVISORY SERVICES PVT. LTD.

DESIGN CONSULTANT: ES INFRASTRUCTURE PRIVATE LIMITED

PROOF CONSULTANT: CIVILMANTRA INFRACON PRIVATE LIMITED

PROJECT: FOUR LANE OF BALANCE WORK OF INDORE - GUJRAT BROGIER IN FOREST AREA SECTION OF NATIONAL HIGHWAY-47 (OLD NH-59) FROM KM 105.210 TO KM 116.250 (START AND END POINT OF BIRD SANCTUARY) KM 121.740 TO KM 127.140 (MACHLIYA GHAT SECTION) AND FOREST PORTION KM 128.800 TO KM 130.850 & KM 136.260 TO KM 158.650 (FOREST AREA) HAVING A LENGTH OF 16.04 KM IN THE STATE OF MADHYA PRADESH

TITLE: PLAN & PROFILE

SCALE: 1:1500

LEGENDS:-
EXISTING PLAN DESIGN PLAN

PROPOSED CL	
MEDIAN	
MCW EDGE	
PAVED SHOULDER	
EARTHEN SHOULDER	
DRAIN	
FOOTPATH	
SERVICE ROAD	
EARTHWORK	
ROW	
MINOR BRIDGE	
X CULVERT	
PIPE CULVERT	
LIGHT/ELECTRIC POLE	
TRANSFORMER	
SIGNBOARD	

Structure Category	HPC PIPE
Schedule Chainage	106+560
Design Chainage	106+556
Proposal	NEW
Size/Span	1no.X1.2m dia.

Structure Category	HPC PIPE
Schedule Chainage	106+820
Design Chainage	106+816
Proposal	NEW
Size/Span	1no.X1.2m dia.

Curve No.:	2	Chainage:	106+790
Radius(m):	16000.00	IP:	492488(E)
sc(deg):	1.70		2508210(N)
Lc(m):	474.13	Ls(m):	-
Ts(m):	237.08	Ba(deg):	-
Es(m):	1.76	S(m):	-
a(deg):	1.70	K(m):	-
a(%):	NC		
Design Speed (V):	100 km/h		

★ 300mm Ø water pipe line

General Manager
MPJNM, PIU, INDORE

PROFILE	
CENTERLINE	
EX. MEDIAN LVL AT CE.	
OGL LHS @20 M	
OGL RHS @20 M	
VERTICAL	
HORIZONTAL	
SUPERELEVATION	
CHAINAGE	
MINOR BRIDGE	
BOX CULVERT	
PIPE CULVERT	



Resident Engineer
Anil Mandoakar
TUV SUD, SQC Indore
Rignod MVRSS

Deputy Manager
Sanjeev Rajwade
MPJNM, PIU, INDORE
TEAM LEADER
SQC, TUV-SUD, INDORE

CLIENT
National Highways Authority of India (NHAI)

MANAGER
M. Nigam Maryadit
PIU, INDORE

DESIGN CONSULTANT
Civilmantra Infracon Pvt. Ltd.
106/5, 10TH FLOOR TOWER B-1 SPACE IT PARK (S.C. 4th) SOHNA ROAD GURUGRAM - 122018

PROOF CONSULTANT
Civilmantra Infracon Pvt. Ltd.

03-08-2021 R1 MS
07-04-2021 JG MS

DATE: MAY 2021

PROJECT: FOUR LANE OF BALANCE WORK OF INDORE - GUJRAT BORDER IN FOREST AREA SECTION OF NATIONAL HIGHWAY-47 (OLD NH-59) FROM KM 106+250 TO KM 118+250 (START AND END POINT OF 3RD SANCTUARY) 401.12+740 TO KM 127+140 (MACHLYA GHAT SECTION) AND FOREST PORT ON K.M. 149+800 TO KM 150+850 & KM 150+250 TO KM 158+650 (FOREST AREA) HAVING A LENGTH OF 18.08 KM IN THE STATE OF MADHYA PRADESH.

TITLE: PLAN & PROFILE
Km.106+500 TO 107+000

DRG NO.: NHA/ES/110/MP/PIU/02

* DIK-9 350 mm ϕ
water Pipe Line

Resident Engineer
Anil Mandoakar
UV SUD, SQC Indore
Rignod MVRWSS

Deputy Manager
MPJNM, PIU, IND.

DOPE Jal Nigam Maryadit
PIU, INDORE

MS G-Eng Advisory Services Pvt. Ltd.
In Joint Venture with M/S global infra solutions in
association with M/S na-infra engineering pvt. ltd.
SCO-102, HUDA Shopping Center,
Sector-13, Gurgaon-122011

SCO-175, FIVE FLOOR, DIRECTOR, SECTOR 1A
CHANDIGARH, HARYANA, 150001
E-mail: ITES@CONSTRUCTION@CALCUL.COM

DESIGNED BY:	PR
CHECKED BY:	PR

PROJECT:


FOUR LANE OF BALANCE WORK OF INDORE - GUJRAT BORDER NH FOREST AREA SECTION OF NATIONAL HIGHWAY - 47 (OLD NH-58) FROM KM 106.210 TO KM 112.520 (START AND END POINT OF BIRD SANCTUARY), KM 121.740 TO KM 127.140 (MACHLYA BHAT SECTION) AND FOREST PORTION KM 149.800 TO KM 150.250 & KM 158.250 TO KM 158.850 (FOREST AREA) HAVING A LENGTH OF 102.06 KM IN THE STATE OF MADHYA PRADESH.

TITLE: PLAN & PROFILE
Km 107-000 TO 107-500

03-06-2021	R1	MS	AS PER AE COMMENTS
07-04-2021	00	MS	INITIAL DRAWING

ES INFRASTRUCTURE PRIVATE LIMITED
900-105 FIRST FLOOR POCKET A SECTOR 14
Gurgaon, Haryana - 122001

SPECIALIZED ENGINEERING SERVICES PVT. LTD.
B-2, 1ST FLOOR, SECTOR-130, NOIDA-201301
U.P., INDIA



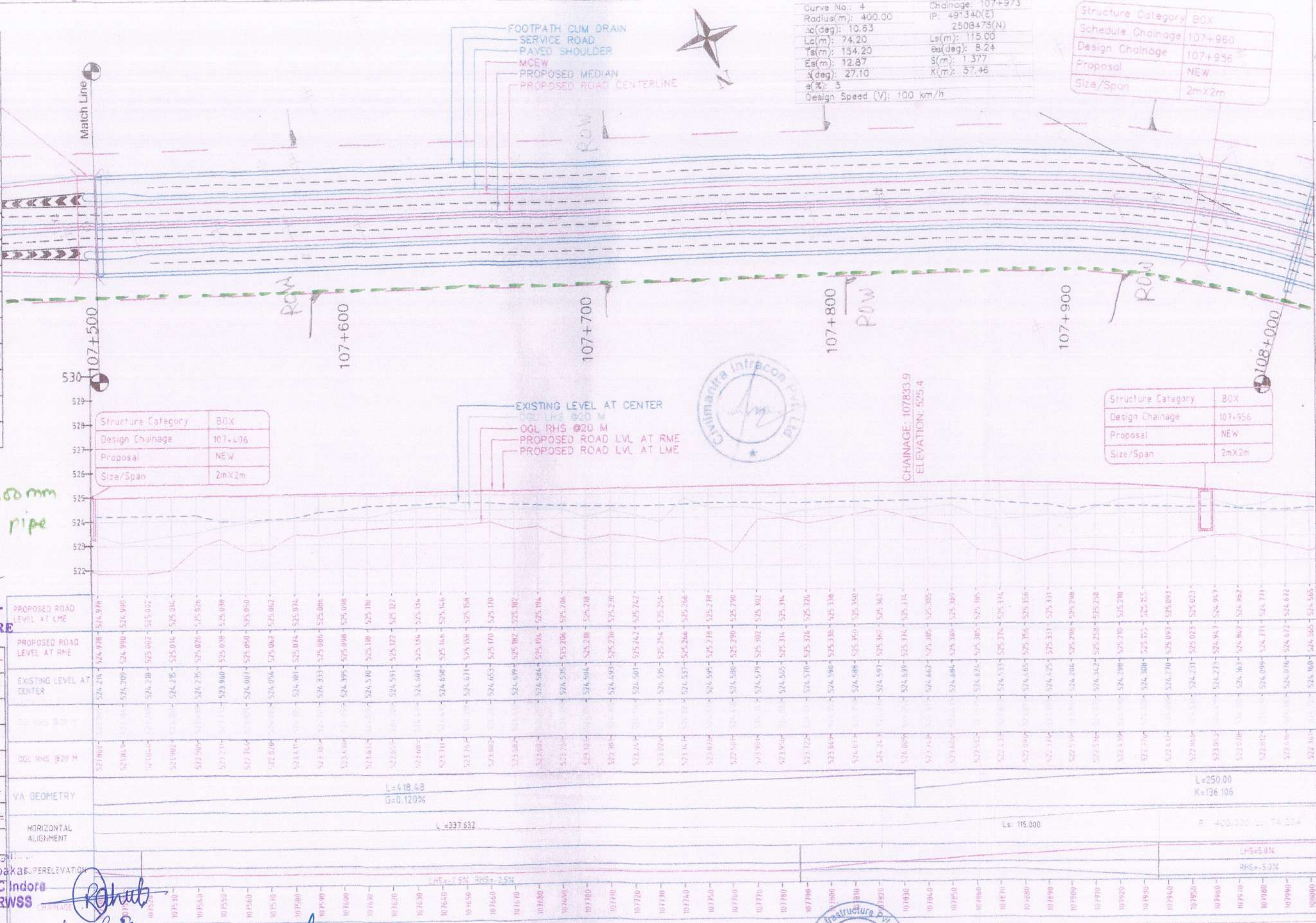
1065, 10TH FLOOR TOWER B-1 SPACE IT
PARK SEC-44 SOHNA ROAD

D. APPROVED BY: SR

TITLE: PLAN & PROFILE
Km 107-000 TO 107-500

LEGENDS:-
EXISTING PLAN DESIGN PLAN

PROPOSED CL	
MEDIAN	
MCW EDGE	
PAVED SHOULDER	
EARTHEN SHOULDER	
DRAIN	
FOOTPATH	
SERVICE ROAD	
EARTHWORK	
ROW	
MINOR BRIDGE	
BOX CULVERT	
PIPE CULVERT	
LIGHT/ ELECTRIC POLE	
TRANSFORMER	
SIGNBOARD	



☆ OGL-9 300mm
of water pipe
line

General Manager
MPJNM, PIU, INDORE

Resident Engineer
Anil Mandoak
TUV SUD, SQC Indore
Rignod MVRWSS

SANJEEV RAJWADE
TEAM LEADER
SQC, TUV-SUD, INDORE

Deputy Manager
MPJNM, PIU, INDORE

J.P. Jal Nigam Maryadih
PIU, INDORE

03-06-2021	R	MS	AS PER AE COMMENTS
07-04-2021	OC	MS	INITIAL DRAWING
DATE	REV	BY	DESCRIPTION OF REVISIONS

CLIENT
NATIONAL HIGHWAYS
AUTHORITY OF INDIA (NHAI)
SPECIALIZED ENGINEERING SERVICES PVT. LTD.
SCO-105, 10TH FLOOR, POCKET-A, SECTOR-14
GURUGRAM, HARYANA, INDIA-201301
E-mail: info@ses-engineering.com

DESIGN CONSULTANT
ES INFRASTRUCTURE PRIVATE LIMITED
SCO-105, 10TH FLOOR, POCKET-A, SECTOR-14
GURUGRAM, HARYANA, INDIA-201301
E-mail: info@esinfracon.com

PROOF CONSULTANT
CIVILMANTRA INFRACON PRIVATE LIMITED
1065, 10TH FLOOR TOWER B-1 SPACE IT
PARK, SEC-49 SOHNA ROAD
GURUGRAM - 130019

PROJECT
FOUR LANE OF BALANCE WORK OF INDORE - GUJRAT BROODER IN FOREST
AREA SECTION OF NATIONAL HIGHWAY-47 (OLD NH-59) FROM KM 106.210 TO
KM 118.250 (START AND END POINT OF BIRD SANCTUARY), KM 121.740 TO KM
127.140 (MACHLIYA BHAT SECTION) AND FOREST PORTION KM 149-800 TO
KM 150+350 & KM 158+250 TO KM 158+850 (FOREST AREA) HAVING A LENGTH
OF 16.06 KM IN THE STATE OF MADHYA PRADESH.

TITLE
PLAN & PROFILE
Km.107+500 TO 108+000

SCALE
1:1500

DATE
MAY 2021

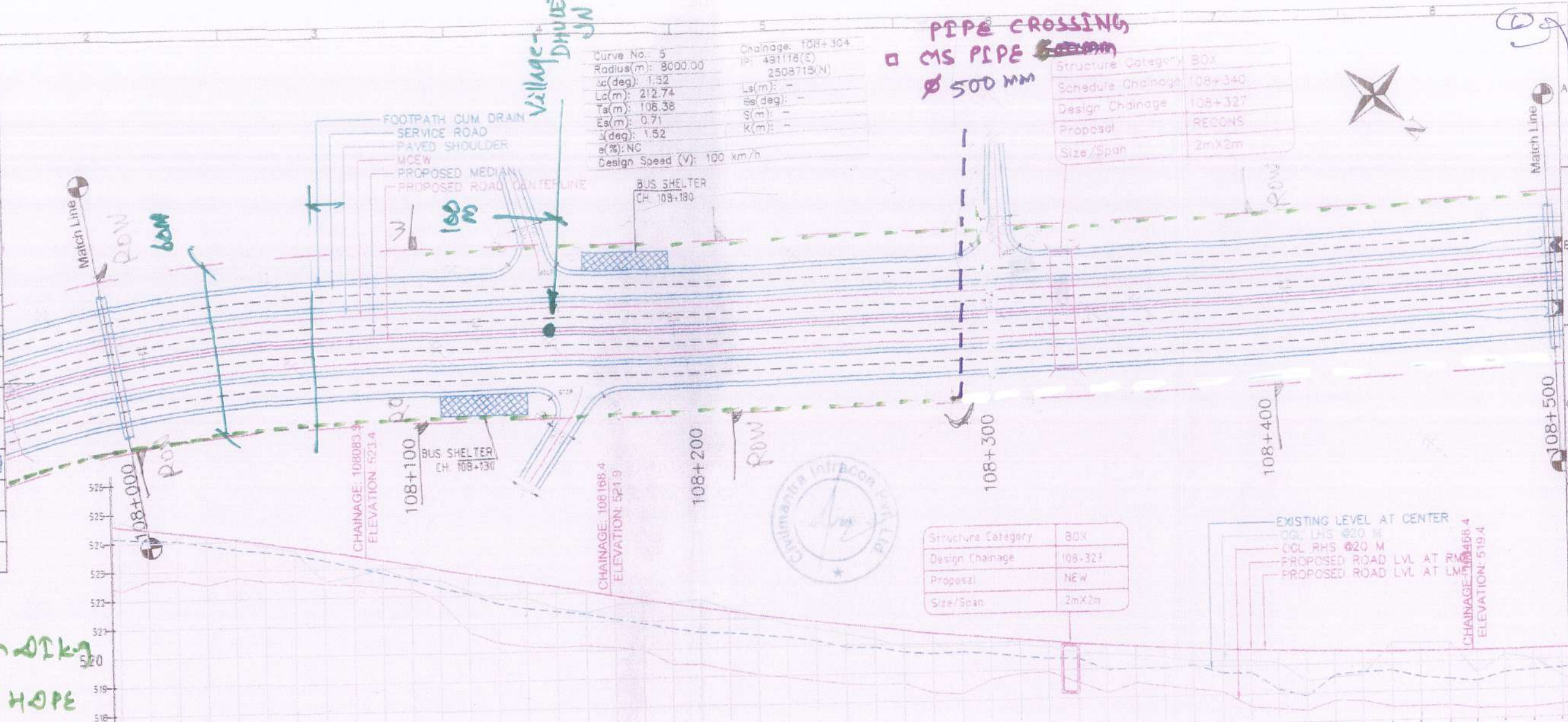
LEGENDS:-
EXISTING PLAN DESIGN PLAN

PROPOSED CL	
MEDIAN	
MCW EDGE	
PAVED SHOULDER	
EARTHEN SHOULDER	
DRAIN	
FOOTPATH	
SERVICE ROAD	
EARTHWORK	
ROW	
MINOR BRIDGE	
BOX CULVERT	
ε CULVERT	
LIGHT/ ELECTRIC POLE	
TRANSFORMER	
SIGNBOARD	

Curve No. 5	Chainage: 108+304
Radius(m): 8000.00	P: 491116(E)
Δ(deg): 1.52	2508715(N)
Lc(m): 212.74	Ls(m): -
Ta(m): 108.38	Es(deg): -
Ea(m): 0.71	S(m): -
Δ(deg): 1.52	K(m): -
a(%): NC	
Design Speed (V): 100 km/h	

PIPE CROSSING
MS PIPE 500mm
Ø 500 mm

Structure Category	BOX
Schedule Chainage	108+340
Design Chainage	108+327
Proposal	RECONS
Size/Spans	2mX2m



300 mm Ø DK
90 mm Ø HOPE
L.H.S

Structure Category	BOX
Design Chainage	108+327
Proposal	NEW
Size/Spans	2mX2m

EXISTING LEVEL AT CENTER
OGL LHS @20 M
OGL RHS @20 M
PROPOSED ROAD LVL AT RM 458.4
PROPOSED ROAD LVL AT LMP 519.4

PROFILE
General Manager
MPJNM, PIU, INDORE

CENTERLINE	
EX. MEDIAN LVL AT CE.	
OGL LHS @20 M	
OGL RHS @20 M	
VERTICAL	
HORIZONTAL	
SUPERELEVATION	
CHAINAGE	
MINOR BRIDGE	
BOX CULVERT	
PIPE CULVERT	



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CLIENT:-
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PROJECT:
FOUR LANE OF BALANCE WORK OF INDORE - GUJRAT BORDER N. FOREST
AREA SECTION OF NATIONAL HIGHWAY - 47 (OLD NH-58) FROM KM 106.210 TO
KM 115.250 (START AND END POINT OF BIRD SANCTUARY), KM 121.740 TO KM
127.140 (MACHLIYA BHAT SECTION) AND FOREST PORTION KM 149-300 TO
KM 150+250 & KM 153-250 TO KM 158+250 (FOREST AREA) HAVING A LENGTH
OF 16.06 KM IN THE STATE OF MADHYA PRADESH.

03-06-2021	R1	MS	AS PER AE CONVENTION
07-04-2021	00	MS	FOR DRAWING
DATE	REV	BY	DESCRIPTION OF REVISIONS