



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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

क्षेत्रीय कार्यालय / REGIONAL OFFICE

ई-6/47, स्मृति परिसर, साईबोर्ड के पास, अरेरा कॉलोनी, भोपाल (म.प्र.)-462016

E-6/47, Smriti Parisar, Near Sai Board, Arera Colony, Bhopal (M.P.)-462016

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



NHAI/RO-MP/PIU-BPL/MPMKVVCL/Dhokheda/2025/53844

Date - 17.04.2025

Invitation of Public Comments

Sub: Regarding permission for MPMKVVCL for laying underground road crossing of 11 KV line by Trenchless (HDD method) on NH-46 (Bhopal-Betul) at km. 482 between chainage 483 (design ch. 48+490) at village Dhokheda Tehsil Itarsi District Narmadapuram in the state of MP - Reg.

Ref: PD, PIU Bhopal e-file no. 279694.

1. PD, PIU Bhopal, NHAI vide e-file note dated 11.04.2025 has submitted the proposal for permission for MPMKVVCL for laying underground road crossing of 11 KV line by Trenchless (HDD method) on NH-46 (Bhopal-Betul) at km. 482 between chainage 483 (design ch. 48+490) at village Dhokheda Tehsil Itarsi District Narmadapuram in the state of MP.
2. As per Ministry vide OM No. RW/NH-33044 S&R (R) dated 22.11.2016, the application shall be put out in public domain for 30 days for seeking claims and objections (on ground of public inconvenience, safety and general public interest).
3. Accordingly, the public comments are hereby invited on the above proposal (copy of application enclosed) for seeking claims and objections within 30 days (i.e. by 17.05.2025) on public portal {i.e. website of MoRTH (www.morth.nic.in)} beyond which no comments will be considered. The address of comments inviting authority is as under:

The Highway Administrator
O/o Regional Officer,
National Highways Authority of India
E-6/47, Smriti Parisar, Near Sai Board
Arera Colony, Bhopal (MP) - 462016
E-mail ID: robhopal@nhai.org

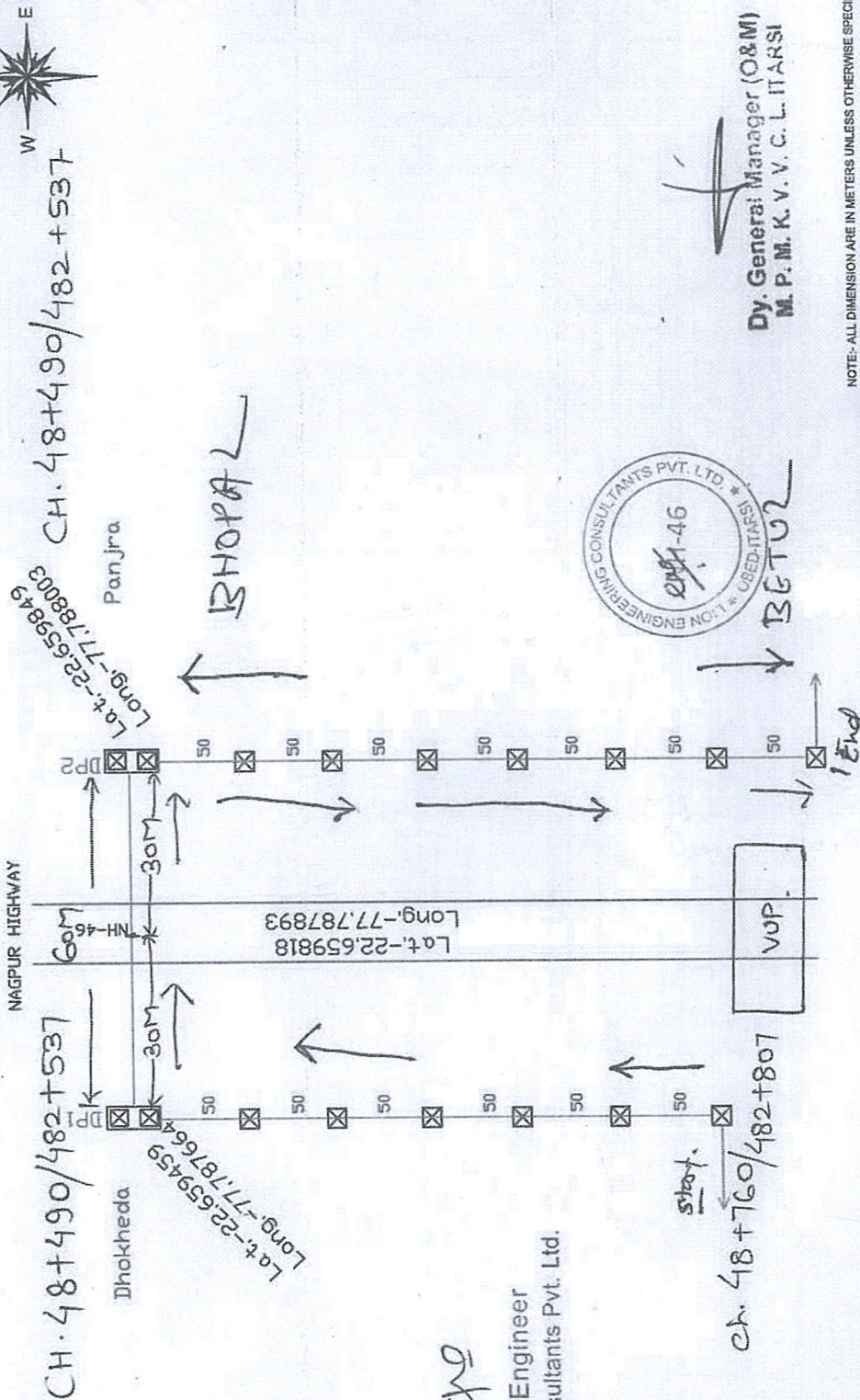
4. This is being issued with the approval of Regional Officer cum Highway Administration.

(Paras Bansal)
Manager (T)

Copy to:

- (i) Web Admin, NHAI-HQ-with request for uploading on the NHAI website.
- (ii) The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.
- (iii) The Project Director, NHAI, PIU- Bhopal (M.P.) for information.
- (iv) MPMKVVCL, Itarsi (MP) (Email: mpczdgmitarsi@gmail.com).

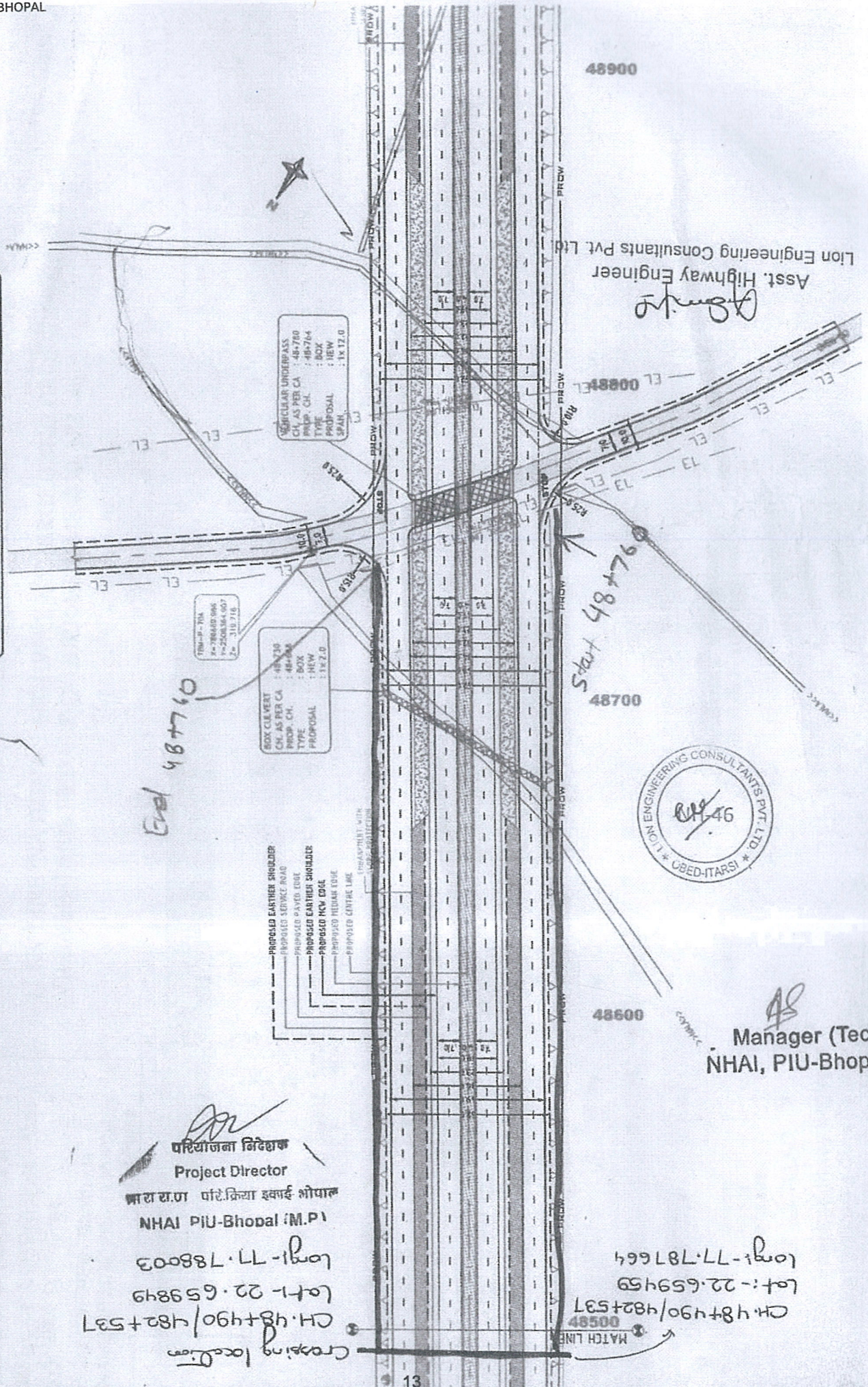
NAME OF WORK - 11 KV BIFURCATION MEHRA GH. PUMP TASK ID - 66202



NOTE: ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED

VINDHYA TELELINKS LIMITED		6th FLOOR, TOWER -A, PLOT NO.-A-3,4,5, PRIUS GLOBAL SECTOR- 125, NOIDA-201301, INDIA PH: +91 120 4950200 , +91 120 4950200		Development of Distribution Infrastructure of Loss Reduction works at BHOPAL Circle Under Revamped Distribution Sector Scheme i.e RDSS Scheme		MPMKVCL BHOPAL MADHYA PRADESH		MD/CZRDSS/PCCK-VIB(11KV)/LOT-II/VTU/NOA/428		NOA NO.		DWG NO.		DRAWN BY		SCALE		SHEET		REV		00							
SR NO		DESCRIPTION		UNIT		SYMBOL		QTY		SR NO		DESCRIPTION		UNIT		SYMBOL		QTY		SR NO		DESCRIPTION		UNIT		SYMBOL		QTY	
1.		EXISTING PSS		NOS.		☒				21.		GUARDING		SPAN				01		22.		ROAD		NOS.					
2.		PROPOSED DTR		NOS.		☒				20.		ROAD		NOS.						21.		RIVER / CANAL		NOS.					
3.		EXISTING DTR		NOS.		☒				21.		NEW H-BEAM TP		NOS.						22.		HOUSE		NOS.					
4.		NEW H-BEAM POLE 13 MT		NOS.						22.		NEW H-BEAM TP		NOS.						23.		TREE		NOS.					
5.		EX. H-BEAM POLE 13 MT		NOS.						23.		NEW DP ON 8M PCC POLE		NOS.						24.		MOSQUE		NOS.					
6.		NEW PCC POLE 8M		NOS.		○				24.		EX. DP ON 8M PCC POLE		NOS.						25.		SCHOOL		NOS.					
7.		EX. PCC POLE 8M		NOS.		●				25.		NEW H BEAM DP		NOS.						26.		TEMPLE		NOS.					
8.		NEW PLOE PCC 9M		NOS.		☉				26.		EX. H BEAM DP		NOS.						27.		RAIL TRACK		NOS.					
9.		EX. PLOE PCC 9M		NOS.		●				27.		NEW DP ON 9 M PCC POLE		NOS.						28.		WELL		NOS.					
10.		NEW DP H-BEAM POLE 11 MTR		NOS.		☒				28.		EX. DP ON 9 M PCC POLE		NOS.						29.		NEW FP ON 9M PSC POLE		NOS.					
11.		NEW PCC POLE 8M TP		NOS.		☒				29.		STAY HT/LT		NOS.		Y Y													

NOTE : PROFILE ON NEXT SHEET



NAME OF WORK:- 11 KV BIFURCATION

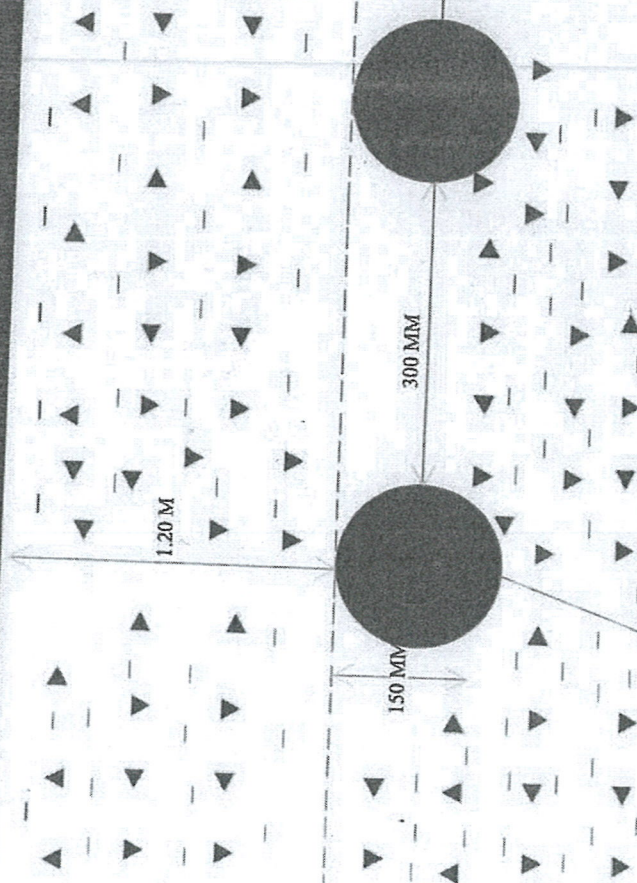
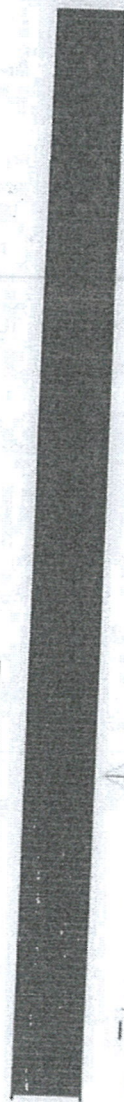
TASK ID-66202

11 KV LINE NATIONAL HIGHWAY UNDERGROUND CROSSING CABLE AT VILLAGE -DHOKHEDA, DC- GURRA KM 48+490 NH -46

DESCRIPTION

NAME OF DIVISION - Itarsi
 NAME OF SUB DIVISION - Itarsi
 NAME OF DC - Gurra
 NAME OF PSS - Dhokheda
 NAME OF FEEDER - 11 KV Mehra
 Ghat Pump

Width of Cross Arms for pole
 $\approx 0.457m$



150 MM

300 MM

150 M ARMoured
CABLE (3 CORE 300 sqmm)

Chainage-482

Dhokheda

22.659459" N

77.787664" E

22.659849" N

77.798003" E

Panjira

Chainage-483

Chainage-483



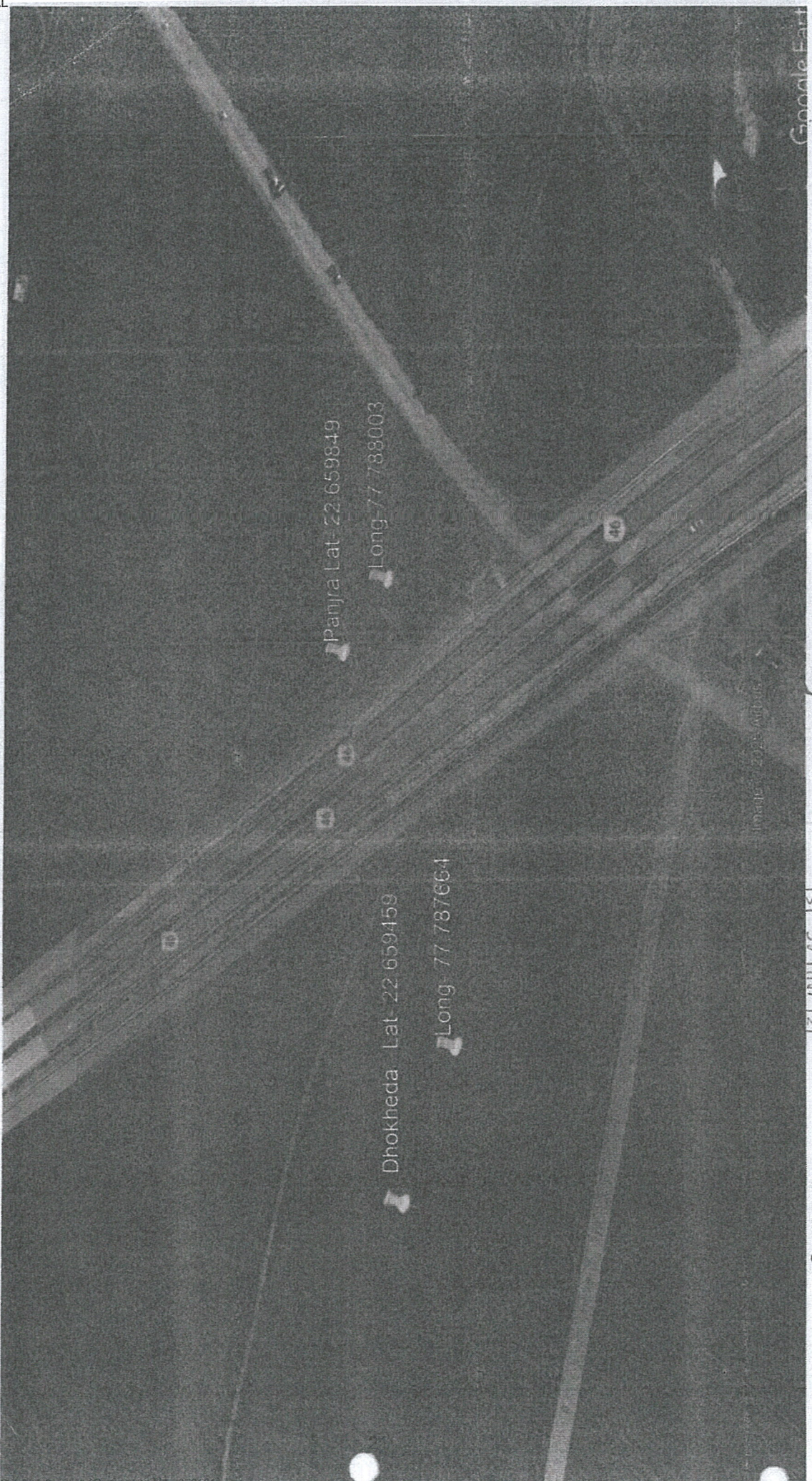
Dy. General Manager (O&M)
 M. P. M. K. V. V. C. L. PARS

CROSS VIEW

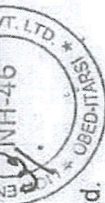
G.I PIPE
 150 MM
 B GRADE

A. Singh
 Asst. Highway Engineer

Lion Engineering Consultants Pvt. Ltd.



Dy. General Manager (O&M)
M. P. M. K. V. V. C. L. ITARSI



A. Srinivas
Asstt. Highway Engineer
Lion Engineering Consultants Pvt. Ltd.

CHECK-LIST

Guidelines for project Directors for processing the proposal for laying of underground cable pipeline in the land along National Highways vested with NHAI.

Relevant circulars of Ministry of Road Transport and Highways

- 1) Circular No. NH-III/P/66/76 dated 18/19.11.1976.
- 2) Circular No. RW/NH-III/P/66/76 dated 11.5.1982.
- 3) Circular No. RW/NH-11037/1/86/DOI (ii) dated 28.7.1993.
- 4) Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995.
- 5) Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999.
- 6) Circular No. RW/NH-34066/7/2003 S&R(B) dated 17.9.2003.
- 7) NHAI's circular No. NHAI/OEC/2k/Vol II dated 7.11.2000, which includes the comprehensive guidelines and draft license agreement by private party in the land along National Highway vested with NHAI.
- 8) Circular No. RW/NH-33044/27/2000-S&R (R) dated 21.3.2006. It is regarding the modification of previous Ministry circular enhancing the amount of performance bank Guarantee @ Rs 50/- per route meter in place of earlier rate of Rs 25/- per route meter.
- 9) Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.

Check list for getting approval for laying of underground cable pipeline (11KV.300 sq mm, 3 core HT cable) on NH land.

The permission for laying of underground cable pipeline shall be considered for approval/rejection based on the Ministry Circulars mentioned as above.

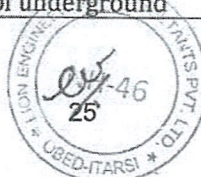
- (a) Carrying of underground cable pipeline on highway bridges shall not be permitted as furmes/underground cable pipe can accelerate the process of corrosion or may cause explosions, thus being much more injurious than leakage of water.
- (b) Services are not being allowed indiscriminately on the parapet/ any part of the bridges, safety of the bridges has to be kept in view while permitting various services along bridge. Guidelines for processing the proposal for laying of utility line in the land along national Highways/ Expressway vested with NHAI/PWD/BRO.

S.NO	Item	Information/Status	Remarks
1	General Information	11 KV Bifurcation Mehraghat Pump TASK ID-66202	-
1.1	Name and Address of the Applicant/ Agency	M.P.M.K.V.V.C.L Narmdapuram(M.P)	-
1.2	National Highway Number	NH 16 Narmdapuram to Itarsi	-
1.3	State	Madhya-Pradesh	
1.4	Location	Lat, 22.659459"N Long,77.787664"E Lat, 22.659549"N Long,77.788003"E	at CH-48+490 to CH-48+760 BHS
1.5	(Chainage in KM)	From 482 to 483	- 48+490
1.6	Length in Meters	60 + 270 + 270	
1.7	Width of available ROW	60	-
	(a) Left side from center line towards increasing chainage/Km direction	30	-
	(b) Right side from center line towards increasing	30	-


	chainage/Km direction		
1.8	Proposal to lay underground utility.	Yes <i>crossing</i>	
	(a) Left side from center line towards increasing chainage/Km direction	30M	
	(b) Right side from center line towards increasing chainage/Km direction	30M	
1.9	Proposal to acquire land	NA	
	(a) Left side from center line.	NA	
	(b) Right side from center line.	NA	
1.10	Whether Proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the cable.	NA	
1.11	Details of already laid services , if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 lanes)	4	
1.13	Proposed Number of lanes (2 lanes with paved shoulders/4/6/8 lanes)	NA	
1.14	Services road existing or not If yes then which side	NA	
	(a) Left side from center line.	NA	
	(b) Right side from center line.	NA	
1.15	Proposed service road	NA	
	(a) Left side from center line.	NA	
	(b) Right side from center line.	NA	
1.16	Whether proposal to lay underground cable pipeline is after the service road or between the service road and main carriageway.	CROSSING AT MAIN CARRIGEWAY	<i>& laying of pole</i>
1.17	Whether carrying underground cablepipeline has been proposed on highway bridges. If yes then mention the methodology proposed for the same.	NA	
1.18	Whether carrying of underground cablepipeline has been proposed on parapet/any part of the bridges. If yes then mention the methodology proposed for the same.	NA	
1.19	If crossing of the road involved		
	If yes, it shall be either encased in pipes or through structure or conduits specially built	Yes, Electrical Cable Be Laid in 150 mm mm GI Pipe	
	for that purpose at the expenses of the agency owning the line.	With HDD Method For Crossing	
	(a) Whether existing drainage structures are allowed to carry underground cablepipeline.	Yes	
	(b) Is it on a line normal to NH, if No Mention angle of crossing	Normal	
	(c) What is the distance of crossing the underground cablepipeline pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	20 Meter	
	(d) The casing pipe (or conduit pipe in the 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 withdrawal of the carrier pie/cable. Mention type of casing.	GI Pipe B"Grade, 150 mm	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes	
	(f) The casing/ conduit pipe should, as minimum extend	Yes	

	from the drain to drain in cuts and toe of slope in the fills.		
	(g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 meter below the drain inverts. Mention the proposed details.	Yes	
	(h) Mention the methodology proposed for the crossing of road for the proposed underground cable/pipeline. Crossing shall be by boring method (HDD)[Trench-less Technology] especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Boring Method (HDD)[Trench Less Technology]	
	(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.	As Per NHAI Norms	
2	Document/ Drawings to be enclosed with the proposal.	Yes	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep x0.3m wide)	Yes	
	(i) Should not be greater than 60 cm wider than the outer diameter of the pipe.	60 Cm	
	(ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.	30 Mtr.	
	(iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges.	NA	
	(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Drawing Attached	
2.2	Cross section showing the size of pit and location of cable for HDD method.	Yes	
2.3	Alignment plan on project project plan & profile showing underground cable pipeline, chainage, width of ROW, distance of proposed underground cable pipeline from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of underground cable/pipeline.	By HDD Method	
2.4.1	Open Trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. IF yes, What is the Methodology of refilling of trench?	NA	
	(a) The trench width should be at least 30 cm, but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(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 and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	NA	
	(c) The backfill shall be completed in two steps (i) side fill to the level of the top to the pipe and (ii) overfill to the bottom of the road crust.	NA	
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctors' density. Over fill shall be compacted to the	NA	

	same density as the material that had been removed. Consolidation my saturation or pending will not be permitted.		
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	NA	
	(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 expenses of agency owning the utility line.	NA	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Methodology for laying of underground cablepipeline through CD works and method of laying. In cases where the carrying of underground cablepipeline on the bridge becomes inescapable.	NA	
3	Draft License Agreement signed by two witnesses.	Enclosed	
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 underground cable Pipeline ducts by proper filling and compaction, clearing Debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the license for clearing debris/loose earth. Performance BG as per above is to be obtained.	As per Applicable	
4.1	Confirmation of BG has been obtained or not as per NHAI guidelines.	To be obtained	
5	Affidavit/ Undertaking from the Applicant for the following are to be furnished.	Enclosed	
5.1	Not to Damage to other utility, if damaged then pay the losses either to NHAI or to the concerned agency.	Enclosed	
5.2	For renewal of bank Guarantee		
5.3	For confirming all standard condition of Ministry Circulars and NHAI's guidelines.	Enclosed	
5.4	For shifting of underground cable Pipeline as and when required by NHAI at their own cost.		
5.5	For shifting of underground cable Pipeline due to 4/6 lanning. Widening of NH		
5.6	For indemnity against all damages and claims.	Enclosed	
5.7	For traffic movement during laying offor shifting of underground cable Pipeline due to 4/6 lanning. Widening of NH pipe line to be managed by the applicant.	Yes	
5.8	If any claim is raised by the Concessionaire the same has to be paid by the applicant.		
5.9	Prior approval of the NHAI shall be obtained before undertaking any work if installation, shifting or repairs, or alterations to the For shifting of underground cable Pipeline due to 4/6 lanning. Widening of NH line/ any other utility located in the national highway right-of- ways.	Enclosed	
5.10	Expenditure, if any, incurred by NHAI for repairing any damage caused to the national Highway by the laying, maintenance or shifting of the For shifting of underground	Enclosed	



Dy. General Manager (O&M)
M. P. M. K. V. V. C. L. ITARSI

	cable Pipeline due to 4/ 6 lanning. Widening of line at NH will be borne by the applicant agency owning the line.		
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Enclosed	
5.12	Certificate from the applicant in the following format		
	(i) Laying of Underground cable pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.	Enclosed	
	(ii) "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future four/ six-lanning or any other development.		
6	Who will sign the agreement on behalf of Underground cable pipe line agency?	DGM (O&M,M.P.M.K.V.V.C. L ITARSI,Division) Narmdapuram	
	Power of Attorney to sign the agreement is available or not.	No	
7	The project director, will submit the following Certificates.		
7.1	Certificate for proposal for confirming of all standard condition issued vide Ministry of road transport and highways circular No. RWINH-33044/29/2015/S&R(R) dated 22.11.2016		
7.2	Certificate from PD in the following format		
	(i) "it is certified that any other location of the underground cable pipeline would be extremely difficult and unreasonable costly and the installation of underground cable pipeline within ROW will not adversely affect the design, stability & traffic safety of the highway nor likely future improvement such as widening of the carriageway, easing of curve etc."		
	(ii) For 4/6-lanning		
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed four/six-lanning based on the feasibility report considering proposed structure at the said location".		
	(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed four/ six-lanning".		
8	If NH section proposed to be taken up by NHAI on BOT basis- a clause is to be inserted in the agreement." The permitted Highway on which licensee has been granted the right to lay pipeline duct has also been granted as a right of way to the concessionaire under the [----- ----Section from Km-----to Km-----of NH No: ----- build, operate and transfer basis] and therefore, the licensee shall honor the same."		
9	Who will supervise the work of laying of underground cableline		
	(a) On behalf of the Applicant	DGM (O&M,M.P.M.K.V.V.C.	



Dy. General Manager (O&M)
M. P. M. K. V. V. C. L. ITARSI

		L ITARSI,Division) Narmdapuram	
	(b) On behalf of NHAI		
10	Who will ensure that the defects in road portion after laying of underground cable pipeline are corrected and if not corrected then what action will be taken		
	(a) On behalf of the Applicant	DGM (O&M,M.P.M.K.V.V.C. L ITARSI,Division) Narmdapuram	
	(b) On behalf of NHAI		
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the Concessionaire?	M.P.M.K.V.V.C.L ITARSI,Division) Narmdapuram	
	On behalf of the Applicant		
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa (copy enclosed)		
13	If any previous approval is accorded for laying of underground cable pipeline then photocopy of register of records of permissions accorded as maintained by PD then copy is enclosed.		
14	Name of Highway authority of NHAI/PWD/BRO	NHAI-Bhopal	
15	Highway Administration address	PIU-Bhopal	



Dy. General Manager (O&M)
M. P. M. K. V. V. C. L ITARSI

Manager (Tech.)
NHAI, PIU-Bhopal

परियोजना निदेशक
Project Director
आरा रा.रा. परियोजना इकाई भोपाल
(NHAI PIU-Bhopal (M.P.))