e-mail

सत्यमेव जयते

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, सांईबोर्ड 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

भाराराप्रा/क्षे.का.-म.प्र./कनदरवासा-बाबडी/2025/52830 दिनांक 20.01.2025

Invitation of Public Comments/ सार्वजनिक टिप्पणियों का आमंत्रण

विषय: 33 के. वी. केबिल क्रासिंग थ्रो एन. ई-4 पलदुना ग्राम के पास कि.मी. चैनेज 603.760 एल.एच.एस. हेतु अनुमति के प्रस्ताव का अनुरोध।

संदर्भः परियोजना निदेशक-रतलाम का ई- फाईल नं. **271961.**

1. परियोजना निदेशक, पीआईयू-रतलाम, भाराराप्रा द्वारा ई-ऑफिस क्रमांक **271061** के माध्यम से 33 के. वी. केबिल क्रासिंग थ्रो एन. ई-4 पलदुना ग्राम के पास कि.मी. चैनेज 603.760 एल.एच.एस. हेतु प्रस्ताव प्रस्तुत किया है।

2. PD, PIU-Ratlam, NHAI vide e-office no. 271961 has submitted the proposal for permission regarding 33 KV cable crossing through NE-4 near Palduna village at Km. Ch. 603+760 LHS.

3. मंत्रालय के कार्यालय ज्ञापन संख्या OM No. RW/NH-33044 S&R (R) dated 22.11.2016 के अनुसार, दावे और आपत्तियां (सार्वजनिक असुविधा, सुरक्षा और सामान्य सार्वजनिक हित के आधार पर) मांगने के लिए आवेदन को 30 दिनों के लिए सार्वजनिक डोमेन में रखा जाएगा।

   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).

4. तदनुसार, दावे और आपत्तियां मांगने के लिए उपरोक्त प्रस्ताव (आवेदन की प्रति संलग्न) पर 30 दिनों के भीतर (यानी **20.02.2025** तक) सार्वजनिक पोर्टल (यानी MoRT&H की वेबसाइट (www.morth.nic.in)) पर जनता की टिप्पणियां आमंत्रित की जाती हैं, जिसके बाद किसी भी टिप्पणी पर विचार नहीं किया जाएगा। टिप्पणी आमंत्रित करने वाले प्राधिकारी का पता इस प्रकार है:

5. 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 **20.02.2025**) 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:

राजमार्ग प्रशासक, क्षेत्रीय अधिकारी कार्यालय भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, ई-6/47, स्मृति परिसर, साईं बोर्ड अरेरा कॉलोनी के पास, भोपाल (मप्र)-462016	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

यह पत्र राजमार्ग प्रशासक सह् क्षेत्रीय अधिकारी के अनुमोदन उपरान्त जारी किया जा रहा है।

20/01/2025

(रामविलास पटेल)
प्रबंधक (तक.)

संलग्नः उपरोक्तानुसार।

<u>प्रतिलिपिः</u>

1. वेब एडमिन, भा.रा.रा.प्रा., मुख्यालय, नई दिल्ली की ओर सर्वजनिक टिप्पणियों के लिए भा.रा.रा.प्रा. की वेबसाइट पर अपलोड करने के अनुरोध के साथ।
2. वरिष्ठ तकनीकी निदेशक, एनआईरी, परिवहन भवन, नई दिल्ली की ओर सार्वजनिक टिप्पणियों के लिए सड़क परिवहन की वेबसाइट पर अपलोड करने के अनुरोध के साथ।
3. परियोजना निदेशक, पकाई-रतलाम की ओर सूचनार्थ प्रेषित।
4. मध्य प्रदेश मध्य क्षेत्र विद्युत वितरण कंपनी लिमिटेड, रतलाम की ओर सूचनार्थ प्रेषित।

FP Project Management
Formerly Fischmann Prabhu (India) Private Limited

FP India Project Management Consultancy Services Pvt. Ltd.
in JV with
K&J Projects Pvt. Ltd.
in Association with
Indian Engineering Consultants India Pvt. Ltd.

Project Office: House No.: 16, Khandelwal Colony, Piploda Road, Jaora, Dist. Ratlam, Madhya Pradesh - 457 226.

Email: delhivadodaraaepkg6@fpindia.com www.fpindia.com

Ref: FPPM/205002/Site/AE/DVpkg22/2024/556 **Date: 28.12.2024**

CMO Achal (SE) 30/12/2024

To,

The Project Director
National Highways Authority of India
Project Implementation Unit (PIU)- Ratlam
Near Toll Plaza of Delhi-Mumbai Expressway,
Village- Dhamnod, Sailana Road,
Ratlam (MP) Pin-457001

प्राप्ति क्र. 1510
प्राप्ति दि. 30/12/24

Sub: Consultancy Services for Authority's Engineer for Supervision of Construction of 8 Lane access controlled Greenfield Delhi-Vadodara Expressway (NH-148N) starting at Kandarwasa village to Bawadi village (near Shivgarh) of Ratlam district (Ch.602+420 to 627+420: design Ch.150+000 to Ch.175+000) in the State of Madhya Pradesh on EPC mode under Bharatmala Pariyojana (Delhi-Vadodara/NH148N/AE/Pkg6) **(Package-22) Permission regarding 33 KV cable crossing through NE-4 near Palduna village-Reg.**

Ref:

1. NHAI/PIU/Ratlam/1075, dated 21.12.2024.
2. Executive Engineer (O&M) MPPKVVCL Ratlam Letter no 3127 dated 13.12.2024.

Dear Sir,

With reference to the subject cited above, Authority Engineer has received the proposal for permission of underground crossing the electrical power cable of 33 KV through HDD in the ROW of Delhi Mumbai Expressway in package-22 between Ch. 603+700 to Ch. 603+800 near Palduna village of Ratlam District.

In this regards, it is verified at site and examine the proposal in pursuant to MoRT&H Guideline F. No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 and its amendment policy circular No NH-36094/01/2022-S&R(P&B) dated 17.04.2023 and found that the double pole structure has already erected at Ch. 603+760 LHS and Ch. 603+774 RHS in ROW along the boundary wall, wherein underground 33 KV electrical power cable crossing is required through HDD.

Therefore, it may be recommended to grant permission for crossing the 33 KV electrical power cable through HDD in the said location of ROW and ensured that the work to be carried out as per following the checklist and undertakings as submitted by the applicant, further ensured by the applicant that no expose cable will be accepted in the ground level of ROW (marked in red). The license fee shall be as per NHAI Policy Guideline.

Thanking you and assuring you of our best services, at all times.

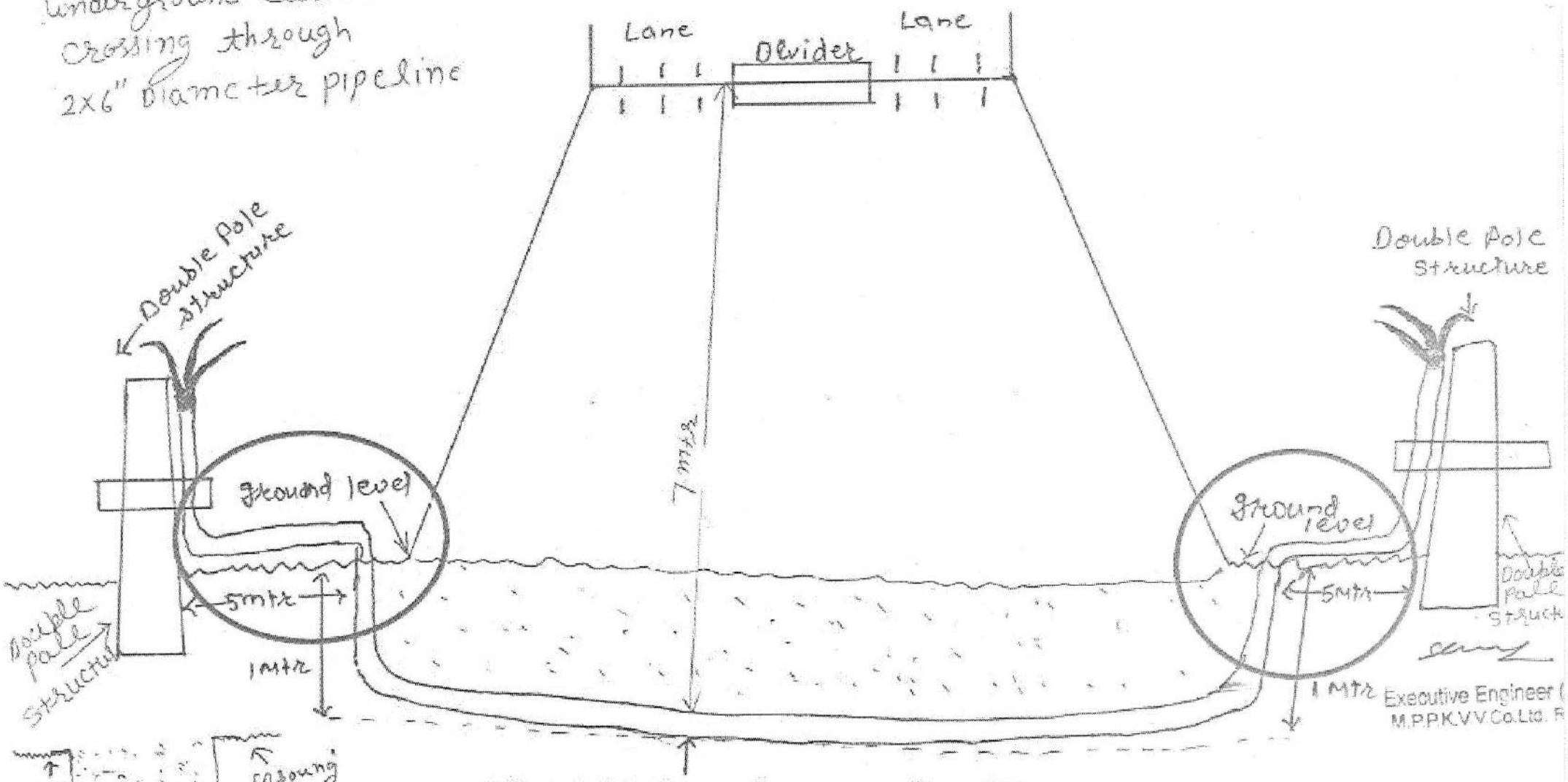
For FP India Project Management Consultancy Services Pvt. Ltd.

(Alok Kumar Patel)
Team Leader cum Sr. Highway Engineer
NH-148N, Ratlam

Encl.: As above

Copy To: The Authorized Signatory, L&T Construction (Pkg-22

33KV 300 Sq mm underground cable crossing through 2x6" Diameter pipeline



Executive Engineer (
M.P.P.K.V.V Co.Ltd. R

Side View
for 33KV cable crossing through 8-Lane (NE-4)

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Government of India)
सत्यमेव जयते परियोजना कार्यान्वयन इकाई-रतलाम/Project Implementation Unit –Ratlam
कार्यालयः 8-लेन दिल्ली-मुंबई एक्सप्रेसवे के धामनोद इंटरचेंज के पास रतलाम-सैलाना मार्ग, ग्राम धामनोद, जिला-रतलाम(म.प्र.) 457001
Office: Near Dhamnod Interchange of 8-Lane Delhi-Mumbai Expressway, Ratlam-Sailana Road, District-Ratlam (M.P.) 457001
Phone/दूरभाषः 07413-796151; E-mail: piuratlam@nhai.org

NHAI/PIU/Ratlam/ 1075 **Date: 21.12.2024**

To,

Authority Engineer,
M/s FP Project Management Consultancy Services
Pvt. Ltd. House no. 16, Khandelwal Colony,
Piploda Road, Jaora Distt. Ratlam (MP) 457226
E-mail: delhivadodaraaepkg6@fpindia.com

Sub.: Operation and maintenance of eight lane access-controlled expressway from Kandarwasa village to Bawadi village of Ratlam district (Ch. 602+420 to 627+420; design Ch. 150+000 to 175+000) section of Delhi-Vadodara Greenfield alignment (NH-148N) on EPC mode under Bharatmala Pariyojana in the state of Madhya Pradesh-**Permission regarding 33 KV cable crossing through NE-4 near Palduna village.**

Ref.: Executive Engineer (O&M) MPPKVVCL Ratlam letter no. 3127 dated 13.12.2024.

Sir,

With reference to the subject cited above, Executive Engineer (O&M) MPPKVVCL Ratlam vide letter no. 3127 dated 13.12.2024 has requested for grant permission for laying 33 KV underground cable crossing through NE-4 near Palduna village. (file attached)

In view of the above, it is requested to examined the above proposal and submit your compliance within 7 days without fail.

Encl.: As above.

Yours sincerely
Sandeep
21/12/2024
(Sandeep Patidar)
Project Director

Copy to:

- Regional Officer (M.P.), NHAI, RO-Bhopal for information.
- EPC Contractor, M/s Larsen & Toubro Ltd. for information.

S.No.	Guideline Place	PLOT (SQM)			BUILDING RESIDENTIAL (SQM)				BUILDING COMMERCIAL (SQM)			BUILDING MULTI(SQM)		AGRICULTURAL LAND(HECTARE)		AGRICULTURAL PLOT (SQM)	
		Residential	Commercial	Industrial	RCC	RBC	Tin Shade	Kaccha Kabelu	Shop	Office	Godown	Residential	Commercial	Irrigated	Un Irrigated	Sub Clause wise Residenti	Sub Clause wise Commerci
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Tehsil : Ratlam, Sub-Area : NON-PLANNING AREA, Patwari Halka : 00005																	
2049	PANCHED (ANYA JAGAH)	1,000	1,500	1,000	7,000	5,000	3,800	3,400	9,800	9,000	9,000	0	0	13,17,000	8,25,000	1,000	1,500
2050	PANCHED (ROAD PAR)	1,800	2,400	1,800	7,800	5,800	4,600	4,200	10,200	9,400	9,400	0	0	20,88,000	20,88,000	1,800	2,400
Tehsil : Ratlam, Sub-Area : NON-PLANNING AREA, Patwari Halka : 00006																	
2051	BARODA	600	900	600	6,600	4,600	3,400	3,000	9,300	8,500	8,500	0	0	6,26,000	3,88,000	600	900
2052	BHARODA	700	1,100	700	6,700	4,700	3,500	3,100	9,300	8,600	8,600	0	0	6,53,000	4,08,000	700	1,100
2053	CHANDODIYA	600	900	600	6,600	4,600	3,400	3,000	9,100	8,300	8,300	0	0	7,44,000	4,56,000	600	900
Tehsil : Ratlam, Sub-Area : NON-PLANNING AREA, Patwari Halka : 00007																	
2054	NAUGAWAN KALAN	700	900	700	6,700	4,700	3,500	3,100	9,300	8,500	8,500	0	0	9,08,000	5,67,000	700	900
Tehsil : Ratlam, Sub-Area : NON-PLANNING AREA, Patwari Halka : 00008																	
2055	PALDUNA	900	1,400	900	6,900	4,900	3,700	3,300	9,700	8,900	8,900	0	0	12,36,000	7,10,000	900	1,400
Tehsil : Ratlam, Sub-Area : NON-PLANNING AREA, Patwari Halka : 00009																	
2056	KANDARWASA	700	900	700	6,700	4,700	3,500	3,100	9,300	8,500	8,500	0	0	7,62,000	4,75,700	700	900

Executive Engineer (O&M) M.P.P.K.V.V.C.L.Ratlam

****

Works/EE/O&M/24-25 3127 Date 13/12/2024

SP 19/12/2024 CMO Action(SE)

To,

Project Director
National Highway Authority of India
Ratlam (M.P.)

प्राप्ति क्र. 1454
प्राप्ति दि. 13/12/24

Sub :- Permission regarding 33 KV cable crossing through NE-4 near paldunavillage.

As per subject cited above, In System Strengthing Transmission and Distribution Scheme of M.P. Govt. Ratlam O&M division is laying 33 KV line from 33/11 KV Kandarwasa S/S to Hatnara S/S for providing unintruppted power supply to villages with quality voltage, in view of overloading of existing 33 kv feeder. Near paldunavillage, this 33 kv feeder required to be crossed through 8-lane. So for crossing 8-lane it is proposed to cross 8-lane by 33 kv underground cble. So please grant permission for laying 33 kv underground as above.

Attachment :- As per above.

Executive Engineer (O&M)
M.P.P.K.V.V.C.L. Ratlam

Executive Engineer (O & M)
M. P. P. K. V. V. Co. Ltd.
RATLAM

Application Details [20241209/2/15/33522/12839]

Highway	NE4 [NE4]
Name of Highway Authority	NHAI
	Dwarka New delhi
Highway Administration Address	Sohna
	PIU-Sohna
Name of Applicant/Oil Company	M.P.P.K.V.V.Co.Ltd. Ratlam
	Address: MPEB CAMPUS, RATLAM POWER HOUSE ROAD, RATLAM (MADHYA PRADESH), PIN: 457001
	Phn: 9770745438
	Email: sstdratlam@gmail.com
Application Category	Industrial Utility
Utility	Power Cables
State	MADHYA PRADESH
Type	New
Remarks	Required 33kv electric underground line crossing permission
Submitted On	

Details

Executive Engineer
M.P.P.K.V.V.Co.Ltd. Ratlam

1. Length in Meters *		100
2. Width of available ROW		
I. Left side from center line towards increasing chainage OR km direction *		50m
II. Right side from center line towards increasing chainage OR km direction *		50m
3. Pr[illegible]l to lay the utility		
I. Left side from center line towards increasing chainage OR km direction *		50m
II. Right side from center line towards increasing chainage OR km direction *		50m
4. Proposal to acquire the land		
I. Left side from center line *		50m
II. Right side from center line *		50m
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

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

6. Details of already laid services if any along the proposed route *		NA
7. Number of Existing lanes *		8 Lane
8. Proposed number of lanes *		8 Lane
9. Service road Exists *		No
10. P sed Service road		
Left side from center line		NA
Right side from center line		NA
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 *		NA
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. *		NA
II. Is it on a line normal to NH? *		No

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

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. *		30
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 is 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. Th stallation of Casing pipe shall be as per attachment-1 of Ministry's Guide. 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. *		HDD

14. Whether the proposal satisfies the following:

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 ening. *		YES
II. Whe and 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
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. *		YES

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

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) *		NA
II. Cross section showing the size of pit and location of cable for HDD method *		YES
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. M dology of laying of the Utility Pipeline/OFC *		NA
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 *		NA
(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 edge: uld 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
(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

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

(g) If required, a diversion shall be constructed at the expense of agency owing the utility line. *		YES
VI. Horizontal Directional Drilling (HDD) Method *		YES
VII. Laying OFC through CD Works and Method of laying (Whether to be hung outside parapet). *		NA
16. Draft license Agreement signed by two witnesses. *		YES
I. The ense fee estimate as per Ministry's guidelines issued vide circular no. RW/. 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		
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

Executive Engineer (Civil)
M.P.P.K.V.V.Co.Ltd. Ratlam

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
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. *		Executive Engineer Shailendra gupta
20. The Power of Attorney is in favour of authorized signatory? *		Yes

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

CHECK LIST

Guidelines for Project Directors for processing the Proposal of laying water pipeline by private parties in the land along National Highways.

Relevant circulars-

Ministry's Circular No. RW/NH-333044/27/2005-S&R(R)(Pt.) Date 06/07.08.2013. It is regarding the modification pf previous Ministry's circular enhancing the amount of Performance Bank Guarantee a Rs. 100/- per route meter.

Check list for getting approval for laying of OFC/PIPELINE on NHAI land.

Sr. No.	Item	Measurement at Site	Norms	Remark
1	Width of Available ROW	NA	Existing ROW	
2	Width of Available ROW - Left side from center line (towards increasing Chainage/Km direction	NA	50.00m	NA
3	Width of Available ROW - Right side from center line (towards increasing Chainage/Km direction)	NA	50.00m	NA
4	Proposal to lay underground 33KV CABLE	YES		LAYING OF 33KV UNDER GROUND CABLE THROUGH BEAM
4(a)	Proposal to lay underground water pipeline - Left side from centre line (Towards increasing Chainage/Km direction	NA	50.00m	NA
4(b)	Proposal to lay underground water pipeline - Right side from centre line (towards increasing Chainage/Km direction)	NA	50.00m	NA
5	Proposal to Acquire Land	NA	NA	NA
5(a)	Proposal to Acquire Land - Left side of the centre line	NA	m	NA
5(b)	Proposal to Acquire Land - Right side of the centre line	NA	m	NA
6	Whether proposal is in the same side where land is not to be acquired, if not then where to lay the water pipeline	NA	LHS/RHS/BOTH	NA
7	Details of already laid services, if any along the proposal route	NA	NA	NA
8	Number of lanes (2/4 or 6/8) existing	NA 8	NA	NA
9	Proposed number of lanes (2 lane with paved shoulders of 4 or 6/8 lane	8 Lane	8 Lanes	NA
10	Service road (existing or not) Y/N, if yes then which side	NA	-NA-	NA
11	Service road (existing or not) Y/N, if yes then which side -Left side from centre line (width)	NO	-NA-	NA
12	Service road (existing or not) Y/N, if yes then which side - Right side from centre line (width)	NA	-NA-	NA
13	Proper service road	NA	-NA-	NA
14	Proper service road -Left side from centre line (width)	NA	-NA-	NA
15	Proper service road - Right side from centre line (width)	NA	-NA-	NA
16	Whether proposal to lay water pipeline is beyond the service road of between the service road and main carriageway	YES	WITHIN	YES

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Sr. No.	Item	Measurement at Site	Norms	Remark
17	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - Carrying 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 that leakage of gas	NA	-NA-	NA
18	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - 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	NA	-NA-	NA
19	portions of piers and abutment in such a manner that in the final arrangement enough free spade around the superstructure of the bridge remains available for inspection and repairs etc.	NA	-NA-	NA
20	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - 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	NA	Amount	NA
21	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - 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 various services along bridge approvals are to be accorded in this regard with the concurrence of the Ministry?s project Chief Engineers only.	NA	NA	NA
22	If crossing of the road involved is yes, it shall be either encased in pipe or through structure or conduit specially built for the purpose at the expenses of the agency owning the line	YES- crossing is proposed via/THROUGH conduit special buit purpose	NA	NA
23	If crossing of the road involved is 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 - Existing drainage structure shall not be allowed to carry the lines	YES	-NA-	AGREED
24	If crossing of the road involved is 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 - Is it on a line normal to NH/SH	YES	NA	NOT NA. IT IS
25	If crossing of the road involved is 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 - Crossing shall be too near the existing structure on the National Highway. The minimum distance being 15m. What is the distance from the existing structure	YES	-NA-	AGREED
26	If crossing of the road involved is 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 - The casing pipe (or conduit pipe in case of electric cable) carrying the utility line shall be of steel cast iron or reinforced	Drawing enclosed	-NA-	NA
27	If crossing of the road involved is 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 - Ends of the casing/conduit pipe shall be sealed from the outside, so that it does as a drainage path	YES	NA	AGREED

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Sr. No.	Item	Measurement at Site	Norms	Remark
28	If crossing of the road involved is 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 - The casing/conduit pipe shall be sealed from drain to in cuts and loe of slope in the fills	YES	-NA-	AGREED
29	If crossing of the road involved is 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 - The top of the casing/conduit pipe should be at least 12m below the surface of the road subject to being at least 03m below the drain invert	YES	-NA-	AGREED
30	If crossing of the road involved is 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 - Crossing shall be by borning method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type	Pipeline to be laid under utility duct	-NA-	NA
31	If crossing of the road involved is 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 - 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	YES	-NA-	AGREED
32	Document/Drawing enclosed with the proposal	YES	NA	AGREED
33	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width	NA	NA	NA
34	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - Should not be greater than 60cm wider than the outer diameter of the pipe	NA	-NA-	NA
35	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - Located as close to the extreme edge of the right of way as possible but not less than 15m from the center lines of the nearest carriage way	NA	-NA	NA
36	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - Shall not be permitted top run along the NH/SH when the road formation is situated in double cutting nor shall these be laid over existing culverts and bridges.	NA	-NA-	NA
37	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - 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	NA	-NA-	NA
38	Cross section showing the size of pit and location of cable for HDD method	NA	-NA-	NA
39	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	NA	NA
40	Methodology for laying of water pipe line	Drawing enclosed	Nil	NA
41	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	YES	VUP middle circle	YES ENCLOSED
42	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 - The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe	YES	NA	AGREED

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Sr. No.	Item	Measurement at Site	Norms	Remark
43	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 - 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	YES	-NA-	AGREED
44	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 - The backfill shall be completed in two stages	YES	NA	AGREED
45	The backfill shall be completed in two stages - Side fill to the level the top of the pipe and	YES	-NA-	YES,AGREED
46	The backfill shall be completed in two stages - Overfill to the bottom of the road crust	YES	-NA-	YES,AGREED
47	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 - 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 proctor?s 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	-NA-	YES,AGREED
48	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 - The road crust shall be built to the same strength as the existing crust on either side of the trench. Corc shall be taken to avoid the formation of dip at the trench	NA	NA	NA
49	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 - The excavation shall be protected by flagman signs and barricades and red light during the night hours	NA	-NA-	NA
50	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 - The excavation shall be protected by flagman signs and barricades and red light during the night hours	NA	-NA-	NA
51	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 - If required, a diversion shall be constructed at the expense of the agency owning utility line	NA	-NA-	NA
52	Horizontal Directional drilling (HDD) method	yes	yes	
53	Laying of 33kv underground cable line through CD work and method laying	NA	-NA-	NA
54	Laying of 33kv underground cable line through CD work and method laying - 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 MORTH/NHAI guidelines	NA	NA	NA
55	Draft license agreement signed by two witnesses	YES	NA	AGREED

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Sr. No.	Item	Measurement at Site	Norms	Remark
56	Performance bank guarantee in favour of NHAI has to be obtained @ Rs. 100/- per running meter (parallel to NH/SH) and Rs. 1,00,000 per crossing of NH/SH for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making	YES	-NA	License fees : 7,93,054 & Performance bank [illegible]
57	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 50m away from the edge of the right of way no payment shall be payable by the NHAI to the licensee for clearing debris/loose earth	YES	-NA-	YES, WILL OBTAIN WHEN DEMAND LETTER RECEIVED
58	Performance BG as per above it to be obtained	YES	-NA	
59	Confirmation of BG has been obtained as per MORTH guidelines	YES	-NA-	YES, ENCLOSED
60	Affidavit/undertaking from the applicant for	YES	-NA-	YES, ENCLOSED
61	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	YES	NA	YES, ENCLOSED
62	Renewal of bank guarantee	YES	-NA-	YES, ENCLOSED
63	Confirming all standard condition of MORTH/NHAI?s guidelines	YES	-NA	YES, ENCLOSED
64	Shifting to 33kv underground cable as and when required by NHAI at their own cost	YES	-NA-	YES, ENCLOSED
65	Shifting due to lanning/widening of NH/SH	YES	-NA	YES, ENCLOSED
66	Indemnity against all damages and claims clause (xxiv)	YES	-NA	YES, ENCLOSED
67	Traffic movement during laying of water 33KV underground cable to be managed by the applicant	YES	-NA-	YES, ENCLOSED
68	If any claim if raised by the Concessionaire then the same has to be paid by the applicant	YES	NA-	YES, ENCLOSED
69	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs of alteration to the showing 3KV UNDER GROUND CABLE line located in the National Highway right of ways	YES	-NA-	YES, ENCLOSED
70	Expenditure if any incurred by NHAI for repairing any damage cause to the National Highway by the laying maintenance or shifting of the 33KV UNDERGROUND CABLE line will be borne by the agency owning the line	YES	-NA	YES, ENCLOSED
71	If the NHAI 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 NHAI or the cost of the agency owning the utility line with in a reasonable time (not exceeding 60 days) of the intimation given	YES	NA	YES, ENCLOSED
72	Certificate from the applicant in the following format	YES	-NA-	YES, ENCLOSED
73	Certificate from the applicant in the following format - Laying of water pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic	YES	-NA-	YES, ENCLOSED
74	Certificate from the applicant in the following format - For 8 lanning ?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 NHAI? For future	NA	-NA	NA
75	Who will sign the agreement on behalf or water pipe line agency	GENERAL MANAGER	Name, designation	GENERAL MANAGER [illegible] NIGAM MANDSAUR
76	Certificate from the Project Director	YES	NA	NA

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Sr. No.	Item	Measurement at Site	Norms	Remark
77	Certificate for confirming of all standard conditions	NA	-NA-	NA
78	Certificate from PD in the following format - it is certificated 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.	NA	-NA-	NA
79	Certificate from PD in the following format - For 6 laning	NA	-NA-	NA
80	Certificate for confirming of all standard conditions - Where is feasibility available ?I do certify that there will be no hindrance to proposed six lanning based on the feasibility report considering proposed structure at the side location?	NA	-NA-	NA
81	Certificate for confirming of all standard conditions - In case feasibility reports is not available ? ?I do certify that sufficient ROW is available at site for accommodating proposed six laning?	NA	-NA-	NA
82	If NH/SH 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 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 (section from Km ----- to Km ----- of NH/SH no on build. operate and transfer basis) and therefore the licensee shall honour the same	NA	-NA-	NA
83	Who will supervise the work of laying of water pipeline	executive engineer (o&m) ratlam	Applicant	NA
84	Who will ensure, that the defects in road portion after laying of water laying of water pipeline are corrected and if not corrected then what action will be taken ?	executive engineer (o&m) ratlam	Applicant	NA
85	Who will pay the claims for damages done/disruption in working of Concessionaire, if asked by the Concessionaire	executive engineer (o&m) ratlam	Applicant	NA
86	A certificate from PD that he will enter the proposed permission in the register records of the permission in the prescribed proforma (copy enclosed)	NA	Applicant	NA
87	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 PD then copy enclosed	NA	-NA-	NA

Recommendation : Satisfactory /Unsatisfactory Over all Remarks :

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M. P. P. K. V. V. Co. Ltd.
RATLAM

UNDERTAKING

We, Madhya Pradesh Pashchim Kshetra Vidhyut Vitran Company Ltd., having its Registered Office of the Executive Engineer, O&M, Ratlam (MP) -457001. Hereby do undertake in Reference to our right of way.

Application for the permission of laying of 33 KV Underground cable for 33/11 kv Substation Kandarwasa to Hatnara through utility duct or underpass of Delhi Mumbai express way which is identified on Ch.603.07 – 603.08 for the public utility work scheme name SSTD (System Strengthening Transmission and Distribution) of M.P. Government.

We hereby undertake the Standard condition of NHAI/NH/PWD Guideline for the laying of 33 KV Underground XLPE Cable.

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

UNDERTAKING

We, Madhya Pradesh Pashchim Kshetra Vidhyut Vitran Company Ltd., having its Registered Office of the Executive Engineer, O&M, Ratlam (MP) -457001. Hereby do undertake that

1 We, do, undertake that while laying/crossing of the 33 KV cable across NH, we shall take care of the existing utilities and service line that have previously laid. In case of any damage. we shall pay the necessary repair charges either to NHAI or to the concerned agency.

2 We, do, undertake that we shall deposited/Submit the statutory fees/user charges/ Bank Guarantee as applicant and demanded by NHAI.

3 We also undertake that Bank Guarantee shall be renewed as and when required and as directed by NHAI

4 We, do, undertake that we shall shift/relocate our 33 KV Cable if required for widening of NH at our own cost and risk.

5 We, do, Indemnity NHAI against all damages and claims that will be incurred by NHAI while crossing of the 33 KV Cable across Highway.

6 We, do, undertake that we shall manage and control the ongoing traffic movement while laying/crossing work without hampering ongoing traffic.

7 We, do, undertake that if any claims are raised by the concession ate towards any damage or any other reason thereof then the same shall be paid by us.

8 We, do, undertake that we will relocate service road / approach road/ utilities at own cost not withstanding the permission granted within such times as will be stipulated by NHAI.

9 M/s Madhya Pradesh Pashchim Kshetra Vidhyut Vitran Company Ltd shall be solely responsible/liable for full compensation/ indemnification of concerned agency/ aggrieved owners for any direct or indirect or consequential damages caused to them/ claim or replacements sought for at our cost and risk

10 We, do, undertake that, water pipe line would be laid keeping in mind future expansion from 8 to 12 lanes of the NH. However, we also agree that we shall sift the 33 KV Cable/ducts within 30 days (or as specified by the respective agency/owner) from the date of issue of Notice by the purpose of improvement / widening of the road rout/ highway or construction flyover/ bridge and restore the road/ land to its original condition at our own cost and risk.

11 We, do, undertake that we will not violate the instruction of MORTH (Ministry of Road Transport & Highways), New Delhi.

12 We, do, undertake that Adequate arrangement for cautioning the traffic by way of caution board during daytime and danger light at high will be provided by the agency.

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS

FOR LAYING 33KV UNDER GROUND CABLE ON NATIONAL HIGHWAY

Agreement to lay Pipe line etc. From 464+070 to 548+030 Km of Delhi Mumbai Expressway

This Agreement made this _____ day of _____(month)_____ of (year) between _____ acting in his executive capacity through_____ (hereinafter referred to as the "Authority"**(NHAI)** which expression shall unless excluded by or repugnant to the context. include his successors in office and assigns) on the one part and **MADHYA PRADESH PACHIM KSHETRA VIDYUT VITRAN** COMPANY LTD. registered under the companies Act. 1956 and having its registered office at **MPPKVVCL INDORE (MP) GPH CAMPUS POLO GROUND** (here in after called the "Licensee" Which expression shall unless excluded by repugnant to and EXECUTIVE ENGINEER(O&M) RATLAM GRAMIN the context. Include his successors/ administrator assignees on the second part.

Whereas the Authority is responsible, internal ROW, for development and maintenance of lands of **(Data enclosed) Delhi Mumbai Expressway.**

Whereas the Licensee proposes to lay Pipe line etc. Referred to as utility services in subsequent paras.

Whereas the Licensee has applied to the Authority for permission to lay utility services at route/road of **NH148N (Delhi Mumbai Expressway)** for the Laying of 33 KV Cable through available utility duct or underpass on - Ch.no 603.07 – 603.08 etc.

And whereas the Authority has agreed to grant such permission for way leave on the SH/NH RoW as per 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 Authority hereby Grants to the Licensee permission to lay utility services as per the approved drawing attached here to subject to the following condition, namely.

1. ROW permissions are only enabling in nature. The purpose of extending the way leaves facility on the State highway. ROW is not for enhancing the scope of activity of 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 and for the purpose for which it is granted.

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2. No license Shall claim exclusive rights 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 are being fulfilled Decision of the authority in relation to fulfilment of technical requirements shall be final and binding on all concerned parties. In case any disruptions/ damage is caused to any existing user by the subsequent user the authorities 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 side identification survey design, engineering, arranging finance, project management obtaining regulatory approvals and necessary clearance supply of equipment, material construction, erection, testing and commissioning maintenance and operation and all other activities are essential or required for efficient functioning of their own utility/ industrial infrastructure facilities.
4. The licensee shall pay license fees @Rs._____ to the Authority the licences fees Shall become payable from the date of handing over of ROW land to the Licensee for laying of pipeline for infrastructure/service provider as regards tariff and terms and condition for providing common utility ducts along National Highways there shall be a separate agreement regime.
5. Fees shall have to be paid in advance for the period for which permission is granted for entering into a licence 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 compound annually.
6. Present policy of the MoRTH is to provide a 2.00 m wide utility corridor on either side of the extreme edge of ROW, in cases where utility duct with sufficient space is already available along NH/SH. the utility services shall be laid in such ducts subject to technical requirement being fulfilled.
7. The utility services shall be laid at the age of the ROW. in case of restricted width of ROW, which maybe 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 embankment 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 out side the railings/parapets and the bridge superstructure The fixing and supporting

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arrangement with all details shall be required to be approved in advance from the concerned Highway administration Additional cost on account of fixing and supporting arrangements as assessed by the authorities shall be payable by the Licensee.

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 duck 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/State highway towards this, the top of the utility services shall be at least 0.6 metre below the ground level, however any structure above ground Shall be aesthetically provided for / landscaped with required safely measures as directed by the concerned authority.

11. The utility services shall be permitted to cross the national highway/State highway either through structure or conduct specially built for that purpose The casing/ conduit pipe should as minimum, extends from the 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 I.R.C and executed following the specification of the Ministry.

12. Existing drainage structures shall not be allowed to carry the life lines across.

13. The top of the casing/conduit pipe containing the utility services to across the road shall be at least 1.2 metre below the top of the subgrade or the existing ground level whichever is lower, subject to being at least 0.3 metre below the drain inverts A typical sketch showing the clearance is given in attachment.

14. The utility services shall cross the National highways/State 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 methods shall be preferred.

16. In case of trenching, the side of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm but not more than 60 CM wider than the outer

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diameter of the pipe. Filling of the trench shall confirm to the specification contained herein 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 cobbies and graded to yield a firm's 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 15cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the proctor 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 specification stipulated by the Highway Authority

17 The licence 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 50 meters away from the age of the right of way.

18 All required Restoration work subsequent to laying of the cable shall be required to be undertaken by the licence at its cost either by itself or through its authorised representative in consultation with the authority as per predetermined time schedule and quality standard.

19 Prior to commencement of any work on the ground a performance bank guarantee @ Rs _____ 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 authorities/its designated agency as a security against improper Restoration of ground in term of filling/unsatisfactory compaction damages caused to other underground installation)utility services and 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.

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20 In case the performance bank guarantee is invoked as mentioned above the licence shall be required to replenish and reinstate the required performance bank guarantee within 1 months 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 licence shall either furnish a fresh guarantee or extend the guarantee for a further period of one year notwithstanding this the licence 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 licence shall be responsible to ascertain from the respective agency in coordination with authority regarding the location of other utilities/ underground/installation/facilities etc. The licence shall ensure the safety and security of already existing underground installations/utility/facilities etc. Before commencement of the excavation/using the existing cable ducts. The licensee shall reputed insurance from a reputed insurance company against damages to already existing underground installations/utilities/facilities etc.

23 The licence 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 replacement sought for at the cost and risk of the licensee the concerned agency in coordination with authorities shall also have a right to make good such damages/recover the claims by forfeitures 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 disruptions 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.

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M.P.P.K.V.V.Co.Ltd. Ratlam

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 authorised representative in consultation with the Authority as per predetermined time schedule and quality standard 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 Licence 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 work a separate performance bank guarantee for maintenance/ repair work shall have to be furnished by the Licensee.

27 Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day filling should be completed to the satisfaction of the concerned agency designated by the Authority.

28 The licence shall indemnify the concerned agency in coordination 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 fees at the time of renewal the permission shall automatically be renewed unless default exist in case of renewal rate prevailing at the time of renewal shall be charged D-day in deposition of fees 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 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 here in expressly granted no use of SH ROW will be permitted for any purpose other than that specified in the Agreement.

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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 charge on this Agreement.

35 Three copies of "as laid drawings" of utilities (hard and soft copies) with geotagged photographs and geotagged video recording of laying of cables in the trench (with respect to the SH) and after complete Restoration shall be submitted to the Authority for verification and record within a month of completion of works.

36 The licensee shall allow free access to the site at all times to the authorised representatives of Authority to inspect the project facilities and the investigate any matter with in their Authority and upon reasonable notice shall provide a reasonable assistan necessary to carry out their respective duties and functions.

37 The utility services shall not be made operational by the Licensee unless a completions certificate to the effect that the utility services has been laid in accordance with the approved specification and drawings and the trenches have been filled up to the satisfaction of the concerned agency in coordination with the authority has been obtained not withstanding 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 not shall it be absolved from any liability already incurred.

38 The licensee shall ensure adherence to relevant Indian standard 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 standard shall be adjusted as necessary to take account of

(A) operation repair and maintenance guidelines given by the manufacturers.

(B) the requirements of Law.

(C) the physical conditions at the site and

(D) the safety of operation personnel and human beings.

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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 diversions 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 bank guarantee to the authority for a period of one year for an amount assessed by the authority as a security for making good excavated trench by proper filling and compaction, clearing debris, loose earth product due to excavation of trenching at least 50 metre away from the Edge of ROW.

42 Any disputes in interpretation of the term and condition 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 project 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 MoRTH & SH / NHAI /implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement had been made in duplicate each on a stamp paper, each party to this agreement has retained one stamped copy each.

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

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BYSHRI Shailendra Gupta
(Signature, name & address with stamp)

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

SIGNED ON BEHALF OF _____ (LICENSEE)

BYSHRI _____

(Signature, name & address with stamp)

HOLDER OF GENERAL POWER OF ATTORNEY DATED
EXECUTED IN ACCORDANCE WITH THE RESOLUTION NO.
DATED _____ PASSED BY HTE BOARD OF DIRECTORS IN THE
MEETING HELD ON

IN THE PRESENCE OF (WITNESSES):

1. KALPESH AUDICHYA (AE) STC MPPKVVCL

2.

HORIZONTAL DIRECTIONAL DRILLING

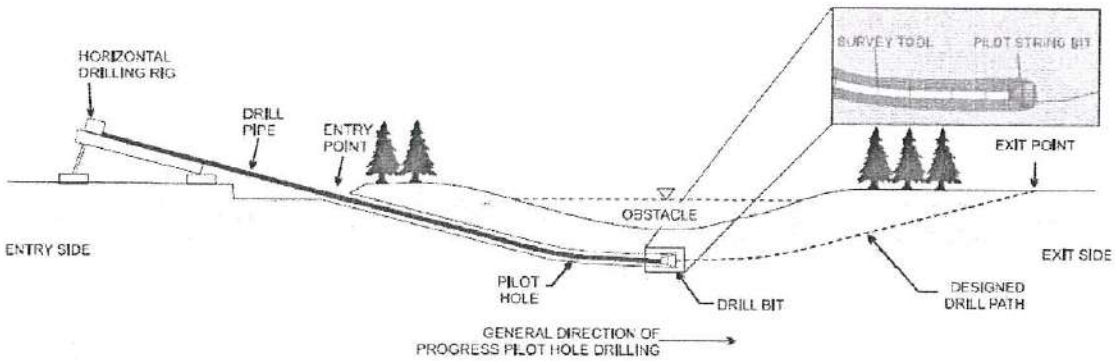
Horizontal Directional Drilling (HDD) – A trenchless method of installing pipe in the ground at variable angles using a guidable drill head

- Used when trenching or excavation is not feasible/practical – Water crossings, road and railway crossings, sensitive wildlife habitats, etc.
- Suitable for variety of soil conditions and pipe diameters

HDD process:

The process starts with receiving hole and entrance pits. These pits will allow the drilling fluid to be collected and reclaimed to reduce costs and prevent waste. The first stage drills a pilot hole on the designed path, and the second stage (reaming) enlarges the hole by passing a larger cutting tool known as the back reamer. The reamer's diameter depends on the size of the pipe to be pulled back through the bore hole. The driller increases the diameter according to the outer diameter or the conduit and to achieve optimal production. The third stage places the product in the enlarged hole by way of the drill stem; it is pulled behind the reamer to allow centering of the pipe in the newly reamed path.

1) Pilot hole – Initial bore drilled along designed drill path



Source: CAPP Publication 2004-0022

2) Reaming pass(es) - increasing the diameter of the pilot hole to allow pipe pullback; may not be necessary for smaller diameter pipelines

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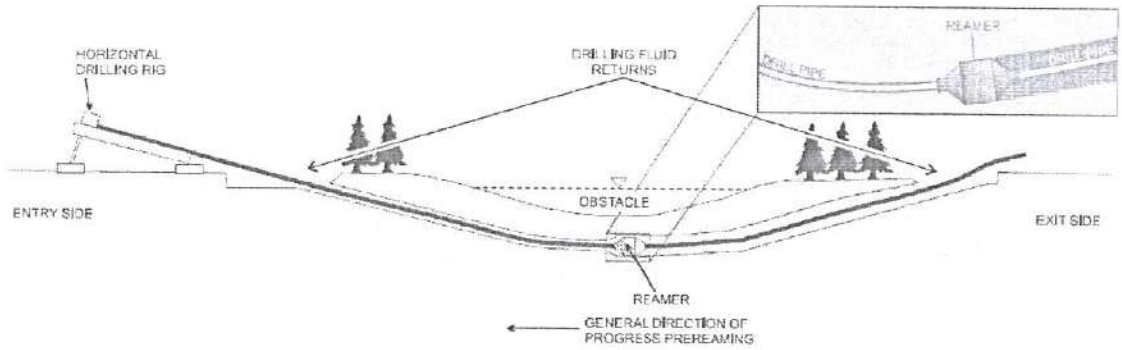
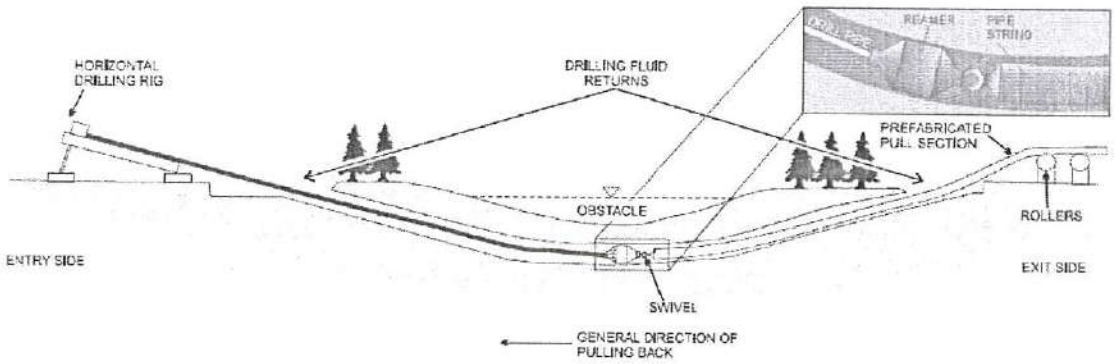


Source: CAPP Publication 2004-0022

3) Pipe string pull back – pull back of pre-fabricated pipe



Source: CAPP Publication 2004-0022

Drilling fluids are pumped through drill head during pilot bore, reaming passes and pipe pull back. Horizontal directional drilling is done with the help of a viscous fluid known as drilling fluid. It is a mixture of water and, usually, bentonite or polymer continuously pumped to the cutting head or drill bit to facilitate the removal of cuttings, stabilize the bore hole, cool the cutting head, and lubricate the passage of the product pipe. The drilling fluid is sent into a machine called a reclaimer which removes the drill cuttings and maintains the proper viscosity of the fluid. Drilling fluids hold

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the cuttings in suspension to prevent them from clogging the bore. A clogged bore creates back pressure on the cutting head, slowing production.

Drilling fluids = water + additives (bentonite, polymers, surfactants, etc.)

- Aid drilling process– Suspend and remove drill cuttings
  - Cool and lubricate drill stem and bit
  - Stabilize bore hole
  - Reduce friction between drill/pipe and bore wall

Applications:

The process is used for installing telecommunications & power cable conduits, water lines, sewer lines, gas lines, oil lines, product pipelines and environmental remediation casings. It is used for crossing waterways, roadways, shore approaches, congested areas, environmentally sensitive areas and any area where other methods are more expensive
Directional boring is used in place of other techniques for the following reasons:

- Less traffic disruption
- Lower cost
- Deeper installation possible
- Longer installation possible
- No access pit required
- Shorter completion times
- Directional capabilities
- Safer for the environment

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		Enclosure to Ministry s circular No RW/NH-33044/27/2005-S&R (R) (Pt) date 06-07.08.2013								
		Formate for Maintaining Record of Right-of Way permission granted for laying pipeline								
		(To be maintained separately for every NH and State								
1	Name of State	Executive Engineer (O&M) MPPKVVCL Ratlam								
2	Name of Agency (NH)	PD PIU Ratlam MP								
3	NH Number	Delhi Mumbai Expressway								
Sl	Location (Chainage in km)	Left or right side of NH (towards increasing chanage/km direction	section reach	Kind of service	Name of licenses and contact address	date of signing of agreement	date of validity of agreement	date of last inspection on of site	Any deviation from MOST standard norms	remanrks
1	Crossing Delhi-Mumbai Expressway at chainage km 603.7+603.8	Crossing	2x6" Diameter MPPKVVCL RATLAM (o&M) DIVISION RATLAM (Near palduna village) Crossing Delhi Mimbai Expressway at chainage km 603.7+603.8	2x6" Diameter 33 KV UNDER GROUND CABLE PIPELINE	MPPKVVCL RATLAM (O&M) DIVISION					

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M. P. P. K. V. V. Co. Ltd.
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Calculation Statement

MPPKVVCL RATLAM

village Taluka Ratlam Dist Ratlam

Statement showing rent & license fee for laying 15" dia steel pipeline with 33 KV CABLE by MPPKVVCL RATLAM across proposed Deldi Mumbai national Expressway through standered HDD method of carrier pipe and OFC as per circular issued by Government of india Fy 2018-2019

sr No	Name of Road & type of Crossing/along	NH km	Lenth (mt)	Outer Diameter of the concerned utility line (12" 0.304)	Area (Sq. mt)	circle rate of Land	Licence Fee		The license Fee for public utilities shall be 33% of the Fee	Performance bank guarantee deposited amount RS
							Rs per sq. mt/month	Rs for five years		
							(Area x rate)/(10x12)	(Column 8x12x5/RS		
1	2	3	4	5	6	7	8	9	10	11
1	Delhi Mumbai Expressway Village Nayapura taluka Ratlam Dist Ratlam	km 145.800 and km 2.400 to km 3.300	100	2X6"= 2X0.15	95.65	1400	1116	66960	22097	200000

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M. P. P. K. V. V. Co. Ltd.
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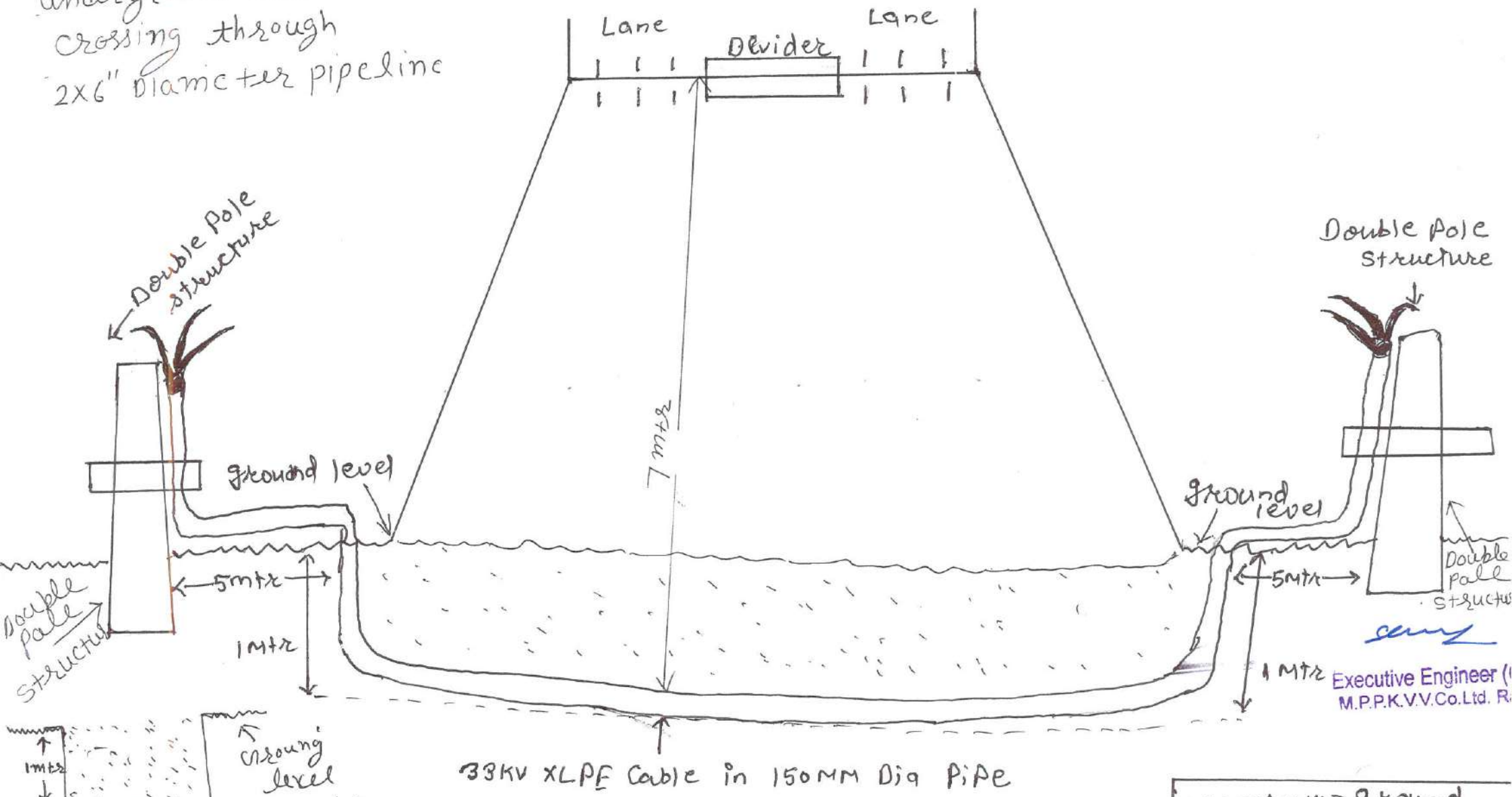
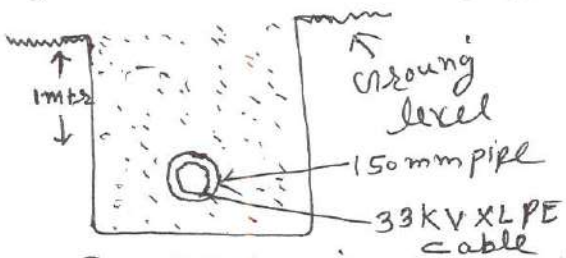
33KV 300 Sq mm underground cable crossing through 2X6" Diameter pipeline





Cross Sectional View

Side View for 33KV cable crossing through 8-Lane (NE-4)

wwwww = ground level

○ = 2X150 MM Dia PiPe 300 Sqmm cable

Executive Engineer (
M.P.P.K.V.V.Co.Ltd. R

मध्यप्रदेश कम्प्यूटरीकृत भू-अभिलेख

नक़्शा की प्रतिलिपि

वर्ष: 2024-25 | दिनांक: 09-12-2024 19:14:40

ब्लॉक सं.	ग्राम	हल्का	तहसील	जिला
	पल्दूना	पल्दुना	रतलाम	रतलाम
सर्वेक्षण सं.	क्षेत्रफल	भू.रा.शा	मापांक 1:4000 (पृष्ठ आकार A4)	
633(S)	0.5800(हेक्ट.)	0	0 20 40 60 80 120 160 200m	

भूस्वामी : जगदीश पिता मांगीलाल जाति धाकड़ पता पल्दूना रतलाम रतलाम मध्य प्रदेश भूमि स्वामी

(हस्ताक्षर)

नोट :-
1. यह प्रपत्र केवल प्रार्थी की जानकारी के लिये है |
2. इसका उपयोग किसी भी न्यायालय में साक्ष्य के रूप में नहीं किया जा सकता है |
3. डिजिटली साइड कॉपी के लिए आई. टी. सेंटर से अथवा ऑनलाइन आवेदन करें |

Calculation Statement

MPPKVVCL RATLAM

village Taluka Ratlam Dist Ratlam

Statement showing rent & license fee for laying 15" dia steel pipeline with 33 KV CABLE by MPPKVVCL RATLAM across proposed Deldi Mumbai national Expressway through standered HDD method of carrier pipe and OFC as per circular issued by Government of india Fy 2018-2019

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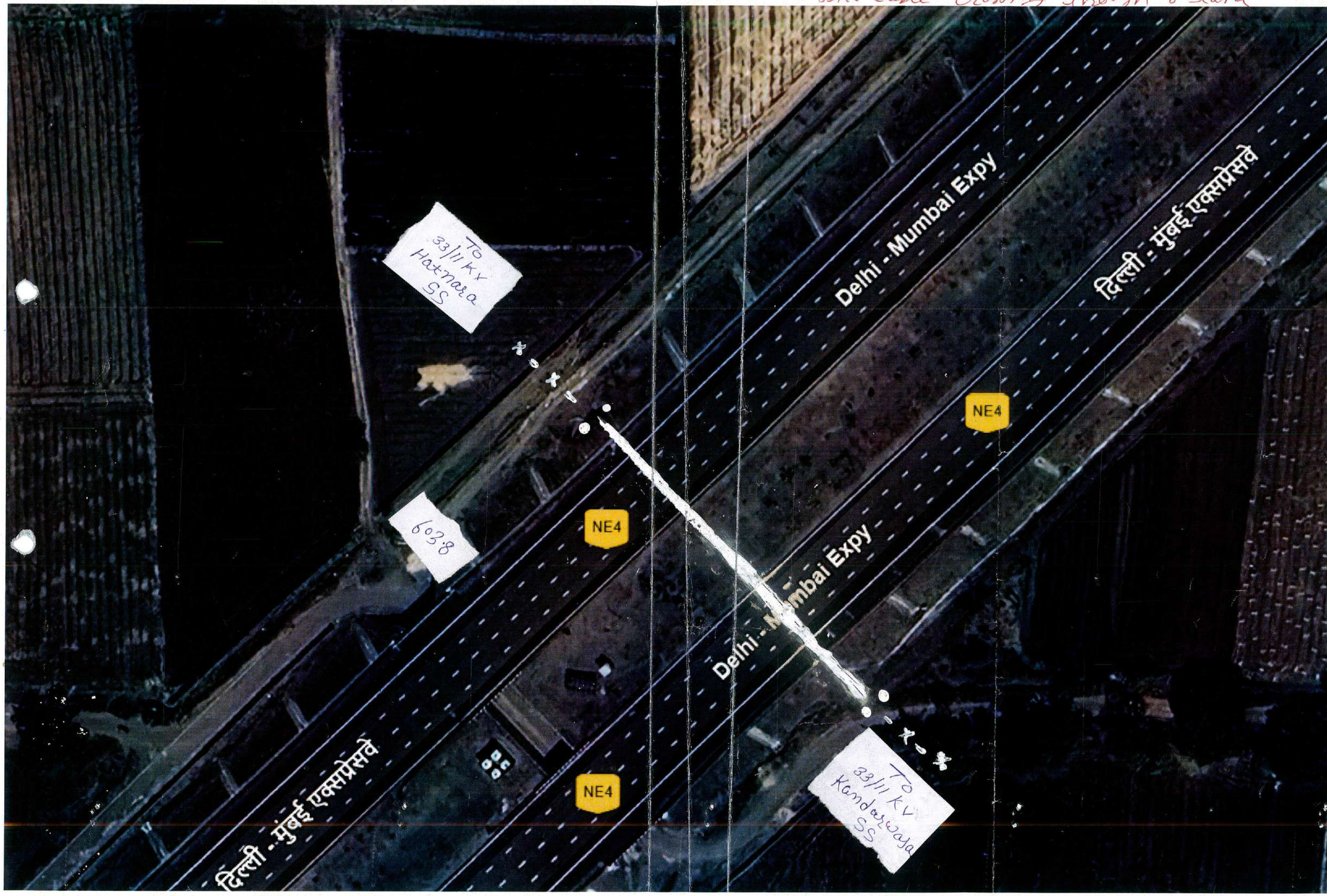
1	2	3	4	5	6	7	8	9	10	11
1	Delhi Mumbai Expressway Village Nayabura taluka Ratlam Dist Ratlam	km 145.800 and km 2.400 to km 3.300 603+760	100	2X6"= 2X0.15	95.65	1400	1116	66960	22097	200000
		603+774 ~~200~~			191.15	1400	2230.	133,800	44,154	

for Executive Engineer (O & M)
M. P. P. K. V. V. Co. Ltd.
RATLAM

Google Earth

33Kv cable crossing through 8-lane



e.com/web/search/23.497448,75.033147/@23.49733161,75.03348006,497.13672016a,359.87128432d,35y,0h,0t,0r/data=CiwiJgokCSkrry4WEDVAEScrry4WEDXAGbkMsAFbD0IAIWNUkXxvbUrAQgIIAToDCgEwQgIIAEoNCP

Application Details [20241209/2/15/33522/12839]

ghway	NE4 [NE4]
me of Highway Authority	NHAI
	Dwarka New delhi
ghway Administration Address	Sohna
	PIU-Sohna
me of Applicant/Oil Company	M.P.P.K.V.V.Co.Ltd. Ratlam
	Address: MPEB CAMPUS, RATLAM POWER HOUSE ROAD, RATLAM (MADHYA PRADESH), PIN: 457001
	Phn: 9770745438
	Email: sstdratlam@gmail.com
plication Category	Industrial Utility
ility	Power Cables
ate	MADHYA PRADESH
ype	New
emarks	Required 33kv electric underground line crossing permission
ubmitted On	

Details

Executive Engineer
M.P.P.K.V.V.Co.Ltd. Ratlam

1. Length in Meters *		100
2. Width of available ROW		
. Left side from center line towards increasing chainage OR km direction *		50m
I. Right side from center line towards increasing chainage OR km direction *		50m
). Pro[illegible] to lay the utility		
. Left side from center line towards increasing chainage OR km direction *		50m
I. Right side from center line towards increasing chainage OR km direction *		50m
. Proposal to acquire the land		
Left side from center line *		50m
. Right side from center line *		50m
. Whether proposal is in the same side where land is not to be acquired *		No
not then where to lay the cable *		NA

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M.P.P.K.V.V.Co.Ltd. Ratlam

. Details of already laid services if any along the proposed route *		NA
. Number of Existing lanes *		8 Lane
. Proposed number of lanes *		8 Lane
. Service road Exists *		No
0. Pro ed Service road		
eft side from center line		NA
ight side from center line		NA
1. Whether proposal to lay cable is after the service road or between the service oad and main carriageway *		N/A
2. Whether carrying OFC Cable has been proposed on highway /bridges, If yes hen mention the methodology proposed for the same *		NA
3. Is crossing of the road involved? If Yes, is shall be either encased in pipes or hrough structure of conduits specially built for the purpose at the expense of the gency owing the line *		YES
. Whether the existing drainage structures are allowed to carry utility pipeline. *		NA
. Is it on a line normal to NH? *		No

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

What is the distance of crossing the utility pipelines from the existing structure? ossings shall not be too near the existing structures on the National Highway, the nimum distance being 15 mtrs. *	30
The casing pipe (or conduit pipe in the case of electric cable) line carrying the lity line shall be of steel, cast iron or reinforced concrete and have adequate ength and be large enough to permit ready withdrawal of carrier pipe/cable ntion type of casting. *	YES
Ends of the casing/conduit pipe shall be sealed from outside, so that is does not as a drainage path *	YES
The casing/conduit pipe should be as minimum extend from drain in cuts toe of pe in fills. *	YES
. The llation of Casing pipe shall be as per attachment-1 of Ministry's idelines dated 22.11.2016 *	YES
I. Mention the methodology proposed for crossing of road for the proposed verage / gas pipeline crossing shall be boring method (HDD) (Trenchless chnology) specially where the existing road pavement is of cement concrete of ise bituminous concrete type. *	HDD
Whether the proposal satisfies the following:	
Where the ROW is more than 45 M then the duct cable shall be laid at the edge right of way within the utility corridor of 2 M width, duly keeping in view the ure ening. *	YES
Where land is yet to be acquired for 4 laning and the position of new riageway has been decided then the cable shall be laid at the edge of right of y within the utility corridor of 2 M width, on that side of existing carriageway ere extra land is not proposed to be acquired for 4 laning. *	YES
Where the widening plan for 4 laning is not yet decided and available ROW is ound 30 M or less, a judicious decision would need to be taken for permitting the ing of cable/duct. This could be within 1.5 M to 2m of utility corridor at the edge existing ROW, duly keeping in view the possible widening plans. *	YES
Where ROW is restricted and adequate only to accommodate the carriageway, ntral verge, shoulders and drains (e.g. Highways in cutting through hilly/rolling rain), the cable shall be laid clear of the drain. *	YES
Where land strip for utility corridor can't be conveniently earmarked (available W restricted to the toe of the embankment) for laying of cable/ducts, the rmission may be refused. *	YES

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5. Document/Drawings enclosed with the proposal *			Yes
Cross section showing the size of trench for open trenching method (is it normal ze of 1.2m (min.) deep x 0.3 wide) *			NA
Cross section showing the size of pit and location of cable for HDD method *			YES
. Strip plan/ Route plan showing the OFC, Chainage width of ROW, distance of oposed, cable from the edge of ROW, important mile stone, intersections, cross ainage works etc. *			YES
. Me ology of laying of the Utility Pipeline/OFC *			NA
Open trenching method (may be allowed in utility corridor only where pavement neither cement concrete nor dense bituminous concrete type) If yes what is the ethodology of refilling of trench *			NA
) The trench width should be at least 30 cms but not more than 60 cms wider an the outer diameter of the pipe *			YES
) For filling of the trench, bedding shall be to a depth of not less than 30 cms. It all consist of granular material, free of lumps, clods, cobbles and graded to yiled m surface without sudden change in the bearing value, unsuitable soil and rock ge uld be excavated and replaced by selected material *			YES
The backfill shall be completed in two stages, I) Side fill to the level of the top of e pipe and ii) Overfill to the bottom of the road crust *			YES
I The side fill shall consist of granular material laid in 15 cms, layers each nsolidated by mechanical tampering and controlled addition of moisture to 95% the proctor density. Overfill shall be compacted to the same density as the aterial that has been removed. *			YES
The road crust shall be built to the same strength as existing crust on either side the trench. Care shall be taken to avoid the formation of a dip at the trench. *			YES
The excavation shall be protected by flagman, signs and barricades and red hts during night hours. *			YES

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M.P.P.K.V.V.Co.Ltd. Ratlam

g) If required, a diversion shall be constructed at the expense of agency owing the tility line. *			YES
I. Horizontal Directional Drilling (HDD) Method *			YES
II. Laying OFC through CD Works and Method of laying (Whether to be hung utside parapet). *			NA
6. Draft license Agreement signed by two witnesses. *			YES
The l a fee estimate as per Ministry's guidelines issued vide circular no. W/NH/33044/29/2015/S&R dated 22.11.2016. *			YES
7. Whether Performance Bank Guarantee is as per Ministry's guidelines issued de circular no. RW/NH/33044/29/2015/S&R, dated 22.11.2016. *			Yes
Confirmation of BG has been obtained as per MoRTH guidelines *			Yes
3. Affidavit/Undertaking from the Applicant for following is to be furnished			
Undertaking not to Damage to other utility, If damage then to pay the losses ther to NHAI or the concerned agency. *			Yes
Undertaking Renewal of Bank Guarantee as and when asked by MoRTH. *			Yes
Undertaking Confirming all standard condition of Ministry's guidelines. *			Yes
Undertaking for indemnity against all damages and claims *			Yes

Executive Engineer (C...)
M.P.P.K.V.V.Co.Ltd. Ratlam

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
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) Un king that text of the license deal is as per verbatim of format issued by MoRT.. ide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016 *		Yes
) Undertaking for shifting of utility as and when asked by MoRTH/ NHAI. *		Yes
) Certificate from the applicant in the following format		
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 y NHAI for future six laning or/any other development		
). Who will sign the agreement on behalf of Applicant agency? Power of Attorney sign the agreement is available or not. *		Executive Engineer Shailendra gupta
. The Power of Attorney is in favour of authorized signatory? *		Yes

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

CHECK LIST

Guidelines for Project Directors for processing the Proposal of laying water pipeline by private parties in the land along National Highways.

Relevant circulars-

Ministry's Circular No. RW/NH-333044/27/2005-S&R(R)(Pt.) Date 06/07.08.2013. It is regarding the modification of previous Ministry's circular enhancing the amount of Performance Bank Guarantee @ Rs. 100/- per route meter.

Check list for getting approval for laying of OFC/PIPELINE on NHAI land.

Sr. No.	Item	Measurement at Site	Norms	Remark
1	Width of Available ROW	NA	Existing ROW	
2	Width of Available ROW - Left side from center line (towards increasing Chainage/Km direction	NA	50.00m	NA
3	Width of Available ROW - Right side from center line (towards increasing Chainage/Km direction)	NA	50.00m	NA
4	Proposal to lay underground 33KV CABLE	YES		LAYING OF 33KV UNDER GROUND CABLE THROUGH SLANE
4(a)	Proposal to lay underground water pipeline - Left side from centre line (Towards increasing Chainage/Km direction	NA	50.00m	NA
4(b)	Proposal to lay underground water pipeline - Right side from centre line (towards increasing Chainage/Km direction)	NA	50.00m	NA
5	Proposal to Acquire Land	NA	NA-	NA
5(a)	Proposal to Acquire Land - Left side of the centre line	NA	m	NA
5(b)	Proposal to Acquire Land - Right side of the centre line	NA	m	NA
6	Whether proposal is in the same side where land is not to be acquired, if not then where to lay the water pipeline	NA	LHS/RHS/BOTH	NA
7	Details of already laid services, if any along the proposal route	NA	NA	NA
8	Number of lanes (2/4 or 6/8) existing	NA	NA	NA
9	Proposed number of lanes (2 lane with paved shoulders of 4 or 6/8 lane	8 Lane	8 Lanes	NA
10	Service road (existing or not) Y/N, if yes then which side	NA	-NA-	NA
11	Service road (existing or not) Y/N, if yes then which side -Left side from centre line (width)	NO	-NA-	NA
12	Service road (existing or not) Y/N, if yes then which side - Right side from centre line (width)	NA	-NA-	NA
13	Proper service road	NA	-NA-	NA
14	Proper service road -Left side from centre line (width)	NA	-NA-	NA
15	Proper service road - Right side from centre line (width)	NA	-NA-	NA
16	Whether proposal to lay water pipeline is beyond the service road of between the service road and main carriageway	YES	WITHIN	NA

Executive Engineer (O & M)
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Sr. No.	Item	Measurement at Site	Norms	Remark
17	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - Carrying 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 that leakage of gas	NA	-NA-	NA
18	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - 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	NA	NA	NA
19	portions of piers and abutment in such a manner that in the final arrangement enough free spade around the superstructure of the bridge remains available for inspection and repairs etc.	NA	NA	NA
20	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - 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	NA	Amount	NA
21	The permission for laying of water pipeline shall be considered for approval/rejection based on Ministry Circular mentioned as above - 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 various services along bridge approvals are to be accorded in this regard with the concurrence of the Ministry?s project Chief Engineers only.	NA	NA	NA
22	If crossing of the road involved is yes, it shall be either encased in pipe or through structure or conduit specially built for the purpose at the expenses of the agency owning the line	YES crossing is proposed via/ THROUGH conduit special built purpose	NA	NA
23	If crossing of the road involved is 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 - Existing drainage structure shall not be allowed to carry the lines	YES	NA	AGREED
24	If crossing of the road involved is 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 - Is it on a line normal to NH/SH	YES	NA	NORMAL TO N
25	If crossing of the road involved is 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 - Crossing shall be too near the existing structure on the National Highway. The minimum distance being 15m. What is the distance from the existing structure	YES	NA	AGREED
26	If crossing of the road involved is 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 - The casing pipe (or conduit pipe in case of electric cable) carrying the utility line shall be of steel cast iron or reinforced	Drawing enclosed	NA	NA
27	If crossing of the road involved is 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 - Ends of the casing/conduit pipe shall be sealed from the outside, so that it does as a drainage path	YES	NA	AGREED

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Sr. No.	Item	Measurement at Site	Norms	Remark
28	If crossing of the road involved is 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 - The casing/conduit pipe shall be sealed from drain to in cuts and toe of slope in the fills	YES	-NA-	AGREED
29	If crossing of the road involved is 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 - The top of the casing/conduit pipe should be at least 12m below the surface of the road subject to being at least 03m below the drain invert	YES	-NA-	AGREED
30	If crossing of the road involved is 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 - Crossing shall be by borning method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type	Pipeline to be laid under utility duct	-NA	NA
31	If crossing of the road involved is 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 - 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	YES	-NA-	AGREED
32	Document/Drawing enclosed with the proposal	YES	NA	AGREED
33	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width	NA	-NA	NA
34	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - Should not be greater than 60cm wider than the outer diameter of the pipe	NA	-NA-	NA
35	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - Located as close to the extreme edge of the right of way as possible but not less than 15m from the center lines of the nearest carriage way	NA	-NA-	NA
36	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - Shall not be permitted top run along the NH/SH when the road formation is situated in double cutting nor shall these be laid over existing culverts and bridges.	NA	-NA-	NA
37	Cross section showing the size of the trench for open trenching method if is normal size of 12 deep x 03m width - 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	NA	-NA-	NA
38	Cross section showing the size of pit and location of cable for HDD method	NA	-NA-	NA
39	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	NA	NA
40	Methodology for laying of water pipe line	Drawing enclosed	Nil	NA
41	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	YES	VUP middle circle	YES ENCLOSED
42	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 - The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe	YES	NA	AGREED

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Sr. No.	Item	Measurement at Site	Norms	Remark
43	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 - 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	YES	-NA-	AGREED
44	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 - The backfill shall be completed in two stages	YES	NA	AGREED
45	The backfill shall be completed in two stages - Side fill to the level the top of the pipe and	YES	-NA-	YES,AGREED
46	The backfill shall be completed in two stages - Overfill to the bottom of the road crust	YES	-NA-	YES,AGREED
47	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 - 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 proctor?s 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	-NA	YES,AGREED
48	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 - 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	NA	-NA	NA
49	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 - The excavation shall be protected by flagman signs and barricades and red light during the night hours	NA	-NA	NA
50	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 - The excavation shall be protected by flagman signs and barricades and red light during the night hours	NA	NA-	NA
51	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 - If required, a diversion shall be constructed at the expense of the agency owning utility line	NA	NA	NA
52	Horizontal Directional drilling (HDD) method	yes	yes	
53	Laying of 33kv underground cable line through CD work and method laying	NA	-NA-	NA
54	Laying of 33kv underground cable line through CD work and method laying - 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 MORTH/NHAI guidelines	NA	NA	NA
55	Draft license agreement signed by two witnesses	YES	NA	YES, AGREED

for

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M. P. P. K. V. V. Co. Ltd.
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Sr. No.	Item	Measurement at Site	Norms	Remark
56	Performance bank guarantee in favour of NHAI has to be obtained @ Rs. 100/- per running meter (parallel to NH/SH) and Rs. 1,00,000 per crossing of NH/SH for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making	YES	NA	License fees : 2,99,054 K Performance bank guarantee 4,58,250
57	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 50m away from the edge of the right of way no payment shall be payable by the NHAI to the licensee for clearing debris/loose earth	YES	-NA-	YES, WILL OBTAIN WHEN DEMAND LETTER RECEIVED
58	Performance BG as per above it to be obtained	YES	NA	
59	Confirmation of BG has been obtained as per MORTH guidelines	YES	-NA-	YES, ENCLOSED
60	Affidavit/undertaking from the applicant for	YES	-NA-	YES, ENCLOSED
61	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	YES	NA	YES, ENCLOSED
62	Renewal of bank guarantee	YES	NA	YES, ENCLOSED
63	Confirming all standard condition of MORTH/NHAI?s guidelines	YES	NA	YES, ENCLOSED
64	Shifting to 33kv underground cable as and when required by NHAI at their own cost	YES	-NA-	YES, ENCLOSED
65	Shifting due to lanning/widening of NH/SH	YES	NA	YES, ENCLOSED
66	Indemnity against all damages and claims clause (xxiv)	YES	NA	YES, ENCLOSED
67	Traffic movement during laying of water 33KV underground cable to be managed by the applicant	YES	-NA-	YES, ENCLOSED
68	If any claim if raised by the Concessionaire then the same has to be paid by the applicant	YES	NA	YES, ENCLOSED
69	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs of alteration to the showing 3KV UNDER GROUND CABLE line located in the National Highway right of ways	YES	NA	YES, ENCLOSED
70	Expenditure if any incurred by NHAI for repairing any damage cause to the National Highway by the laying maintenance or shifting of the 33KV UNDERGROUND CABLE line will be borne by the agency owning the line	YES	NA	YES, ENCLOSED
71	If the NHAI 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 NHAI or the cost of the agency owning the utility line with in a reasonable time (not exceeding 60 days) of the intimation given	YES	NA	YES, ENCLOSED
72	Certificate from the applicant in the following format	YES	-NA-	YES, ENCLOSED
73	Certificate from the applicant in the following format - Laying of water pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic	YES	-NA-	YES, ENCLOSED
74	Certificate from the applicant in the following format - For 8 lanning ?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 NHAI? For future	NA	NA	NA
75	Who will sign the agreement on behalf or water pipe line agency	GENERAL MANAGER	Name, designation	GENERAL MANAGER [illegible] NIGAM MANDSAUR
76	Certificate from the Project Director	YES	NA	NA

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Sr. No.	Item	Measurement at Site	Norms	Remark
77	Certificate for confirming of all standard conditions	NA	-NA-	NA
78	Certificate from PD in the following format - it is certificated 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.	NA	-NA-	NA
79	Certificate from PD in the following format - For 6 laning	NA	-NA-	NA
80	Certificate for confirming of all standard conditions - Where is feasibility available ?I do certify that there will be no hindrance to proposed six lanning based on the feasibility report considering proposed structure at the side location?	NA	-NA-	NA
81	Certificate for confirming of all standard conditions - In case feasibility reports is not available ? ?I do certify that sufficient ROW is available at site for accommodating proposed six laning?	NA	-NA-	NA
82	If NH/SH 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 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 (section from Km ---- to Km ---- of NH/SH no on build, operate and transfer basis) and therefore the licensee shall honour the same	NA	-NA-	NA
83	Who will supervise the work of laying of water pipeline	executive engineer (o&m) ratlam	Applicant	NA
84	Who will ensure, that the defects in road portion after laying of water laying of water pipeline are corrected and if not corrected then what action will be taken ?	executive engineer (o&m) ratlam	Applicant	NA
85	Who will pay the claims for damages done/disruption in working of Concessionaire, if asked by the Concessionaire	executive engineer (o&m) ratlam	Applicant	NA
86	A certificate from PD that he will enter the proposed permission in the register records of the permission in the prescribed proforma (copy enclosed)	NA	Applicant	NA
87	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 PD then copy enclosed	NA	-NA-	NA
Recommendation : Satisfactory /Unsatisfactory		Over all Remarks		

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M. P. P. K. V. V. Co. Ltd.
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UNDERTAKING

We, Madhya Pradesh Pashchim Kshetra Vidhyut Vitran Company Ltd., having its Registered Office of the Executive Engineer, O&M, Ratlam (MP) -457001. Hereby do undertake in Reference to our right of way.

Application for the permission of laying of 33 KV Underground cable for 33/11 kv Substation Kandarwasa to Hatnara through utility duct or underpass of Delhi Mumbai express way which is identified on Ch.603.07 – 603.08 for the public utility work scheme name SSTD (System Strengthening Transmission and Distribution) of M.P. Government.

We hereby undertake the Standard condition of NHAI/NH/PWD Guideline for the laying of 33 KV Underground XLPE Cable.

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

UNDERTAKING

We, Madhya Pradesh Pashchim Kshetra Vidhyut Vitran Company Ltd., having its Registered Office of the Executive Engineer, O&M, Ratlam (MP) -457001. Hereby do undertake that

1 We, do, undertake that while laying/crossing of the 33 KV cable across NH, we shall take care of the existing utilities and service line that have previously laid. In case of any damage, we shall pay the necessary repair charges either to NHAI or to the concerned agency.

2 We, do, undertake that we shall deposited/Submit the statutory fees/user charges/ Bank Guarantee as applicant and demanded by NHAI.

3 We also undertake that Bank Guarantee shall be renewed as and when required and as directed by NHAI

4 We, do, undertake that we shall shift/relocate our 33 KV Cable if required for widening of NH at our own cost and risk.

5 We, do, Indemnity NHAI against all damages and claims that will be incurred by NHAI while crossing of the 33 KV Cable across Highway.

6 We, do, undertake that we shall manage and control the ongoing traffic movement while laying/crossing work without hampering ongoing traffic.

7 We, do, undertake that if any claims are raised by the concession ate towards any damage or any other reason thereof then the same shall be paid by us.

8 We, do, undertake that we will relocate service road / approach road/ utilities at own cost not withstanding the permission granted within such times as will be stipulated by NHAI.

9 M/s Madhya Pradesh Pashchim Kshetra Vidhyut Vitran Company Ltd shall be solely responsible/liable for full compensation/ indemnification of concerned agency/ aggrieved owners for any direct or indirect or consequential damages caused to them/ claim or replacements sought for at our cost and risk

10 We, do, undertake that, water pipe line would be laid keeping in mind future expansion from 8 to 12 lanes of the NH. However, we also agree that we shall sift the 33 KV Cable/ducts within 30 days (or as specified by the respective agency/owner) from the date of issue of Notice by the purpose of improvement / widening of the road rout/ highway or construction flyover/ bridge and restore the road/ land to its original condition at our own cost and risk.

11 We, do, undertake that we will not violate the instruction of MORTH (Ministry of Road Transport & Highways), New Delhi.

12 We, do, undertake that Adequate arrangement for cautioning the traffic by way of caution board during daytime and danger light at high will be provided by the agency.

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS FOR LAYING 33KV UNDER GROUND CABLE ON NATIONAL HIGHWAY

Agreement to lay Pipe line etc. From 464+070 to 548+030 Km of Delhi Mumbai Expressway

This Agreement made this _____ day of _____(month)_____ of (year) between _____ acting in his executive capacity through_____ (hereinafter referred to as the "Authority"**(NHAI)** which expression shall unless excluded by or repugnant to the context. include his successors in office and assigns) on the one part and **MADHYA PRADESH PACHIM KSHETRA VIDYUT VITRAN** COMPANY LTD. registered under the companies Act. 1956 and having its registered office at **MPPKVVCL INDORE (MP) GPH CAMPUS POLO GROUND** (here in after called the "Licensee" Which expression shall unless excluded by repugnant to and EXECUTIVE ENGINEER(O&M) RATLAM GRAMIN the context. Include his successors/ administrator assignees on the second part.

Whereas the Authority is responsible, internal ROW, for development and maintenance of lands of **(Data enclosed) Delhi Mumbai Expressway.**

Whereas the Licensee proposes to lay Pipe line etc. Referred to as utility services in subsequent paras.

Whereas the Licensee has applied to the Authority for permission to lay utility services at route/road of **NH148N (Delhi Mumbai Expressway)** for the Laying of 33 KV Cable through available utility duct or underpass on - Ch.no 603.07 – 603.08 etc.

And whereas the Authority has agreed to grant such permission for way leave on the SH/NH RoW as per 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 Authority hereby Grants to the Licensee permission to lay utility services as per the approved drawing attached here to subject to the following condition, namely.

1. ROW permissions are only enabling in nature. The purpose of extending the way leaves facility on the State highway. ROW is not for enhancing the scope of activity of 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 and for the purpose for which it is granted.

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2. No license Shall claim exclusive rights 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 are being fulfilled Decision of the authority in relation to fulfilment of technical requirements shall be final and binding on all concerned parties. In case any disruptions/ damage is caused to any existing user by the subsequent user the authorities 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 side identification survey design, engineering, arranging finance, project management obtaining regulatory approvals and necessary clearance supply of equipment, material construction, erection, testing and commissioning maintenance and operation and all other activities are essential or required for efficient functioning of their own utility industrial infrastructure facilities.
4. The licensee shall pay license fees @Rs._____ to the Authority the licences fees Shall become payable from the date of handing over of ROW land to the Licensee for laying of pipeline for infrastructure/service provider as regards tariff and terms and condition for providing common utility ducts along National Highways there shall be a separate agreement regime.
5. Fees shall have to be paid in advance for the period for which permission is granted for entering into a licence 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 compound annually.
6. Present policy of the MoRTH is to provide a 2.00 m wide utility corridor on either side of the extreme edge of ROW, in cases where utility duct with sufficient space is already available along NH/SH. the utility services shall be laid in such ducts subject to technical requirement being fulfilled.
7. The utility services shall be laid at the age of the ROW. in case of restricted width of ROW, which maybe 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 embankment 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 on side the railings/parapets and the bridge superstructure The fixing and supporting

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arrangement with all details shall be required to be approved in advance from the concerned Highway administration Additional cost on account of fixing and supporting arrangements as assessed by the authorities shall be payable by the Licensee.

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 duck 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/State highway towards this, the top of the utility services shall be at least 0.6 metre below the ground level, however any structure above ground Shall be aesthetically provided for / landscaped with required safely measures as directed by the concerned authority.

11. The utility services shall be permitted to cross the national highway/State highway either through structure or conduct specially built for that purpose The casing/ conduit pipe should as minimum, extends from the 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 specification of the Ministry.

12. Existing drainage structures shall not be allowed to carry the life lines across.

13. The top of the casing/conduit pipe containing the utility services to across the road shall be at least 1.2 metre below the top of the subgrade or the existing ground level whichever is lower, subject to being at least 0.3 metre below the drain inverts A typical sketch showing the clearance is given in attachment.

14. The utility services shall cross the National highways/State 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 methods shall be preferred.

16. In case of trenching, the side of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm but not more than 60 CM wider than the outer

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diameter of the pipe. Filling of the trench shall confirm to the specification contained herein 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 cobbies and graded to yield a firm's 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 15cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the proctor 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 specification stipulated by the Highway Authority

17 The licence 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 50 meters away from the age of the right of way.

18 All required Restoration work subsequent to laying of the cable shall be required to be undertaken by the licence at its cost either by itself or through its authorised representative in consultation with the authority as per predetermined time schedule and quality standard.

19 Prior to commencement of any work on the ground a performance bank guarantee @ Rs _____ 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 authorities/its designated agency as a security against improper Restoration of ground in term of filling/unsatisfactory compaction damages caused to other underground installation)utility services and 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.

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20 In case the performance bank guarantee is invoked as mentioned above the licence shall be required to replenish and reinstate the required performance bank guarantee within 1 months 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 licence shall either furnish a fresh guarantee or extend the guarantee for a further period of one year notwithstanding this the licence 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 licence shall be responsible to ascertain from the respective agency in coordination with authority regarding the location of other utilities/ underground/installation facilities etc. The licence shall ensure the safety and security of already existing underground installations/utility/facilities etc. Before commencement of the excavation/using the existing cable ducts. The licensee shall reputed insurance from a reputed insurance company against damages to already existing underground installations/utilities/facilities etc.

23 The licence 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 replacement sought for at the cost and risk of the licensee the concerned agency in coordination with authorities shall also have a right to make good such damages/recover the claims by forfeitures 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 disruptions 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.

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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 authorised representative in consultation with the Authority as per predetermined time schedule and quality standard 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 Licence 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 work a separate performance bank guarantee for maintenance/ repair work shall have to be furnished by the Licensee.

27 Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day filling should be completed to the satisfaction of the concerned agency designated by the Authority.

28 The licence shall indemnify the concerned agency in coordination 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 fees at the time of renewal the permission shall automatically be renewed unless default exist in case of renewal rate prevailing at the time of renewal shall be charged D-lay in deposition of fees 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 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 here in expressly granted no use of SH ROW will be permitted for any purpose other than that specified in the Agreement.

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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 charge on this Agreement.

35 Three copies of "as laid drawings" of utilities (hard and soft copies) with geotagged photographs and geotagged video recording of laying of cables in the trench (with respect to the SH) and after complete Restoration shall be submitted to the Authority for verification and record within a month of completion of works.

36 The licensee shall allow free access to the site at all times to the authorised representatives of Authority to inspect the project facilities and the investigate any matter with in their Authority and upon reasonable notice shall provide a reasonable assistan. necessary to carry out their respective duties and functions.

37 The utility services shall not be made operational by the Licensee unless a completions certificate to the effect that the utility services has been laid in accordance with the approved specification and drawings and the trenches have been filled up to the satisfaction of the concerned agency in coordination with the authority has been obtained not withstanding 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 standard 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 standard shall be adjusted as necessary to take account of

(A) operation repair and maintenance guidelines given by the manufacturers.

(B) the requirements of Law.

(C) the physical conditions at the site and

(D) the safety of operation personnel and human beings.

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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 diversions 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 bank guarantee to the authority for a period of one year for an amount assessed by the authority as a security for making good excavated trench by proper filling and compaction, clearing debris, loose earth product due to excavation of trenching at least 50 metre away from the Edge of ROW.

42 Any disputes in interpretation of the term and condition 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 project 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 MoRTH & SIL / NHAI /implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement had been made in duplicate each on a stamp paper, each party to this agreement has retained one stamped copy each.

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

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BYSHRI Shailendra Gupta
(Signature, name & address with stamp)

Executive Engineer (O&M)
M.P.P.K.V.V.Co.Ltd. Ratlam

SIGNED ON BEHALF OF _____ (LICENSEE)

BYSHRI _____

(Signature, name & address with stamp)

HOLDER OF GENERAL POWER OF ATTORNEY DATED _____
EXECUTED IN ACCORDANCE WITH THE RESOLUTION NO. _____
DATED _____ PASSED BY HTE BOARD OF DIRECTORS IN THE
MEETING HELD ON

IN THE PRESENCE OF (WITNESSES):

1. KALPESH AUDICHYA (AE) STC MPPKVVCL

2.

HORIZONTAL DIRECTIONAL DRILLING

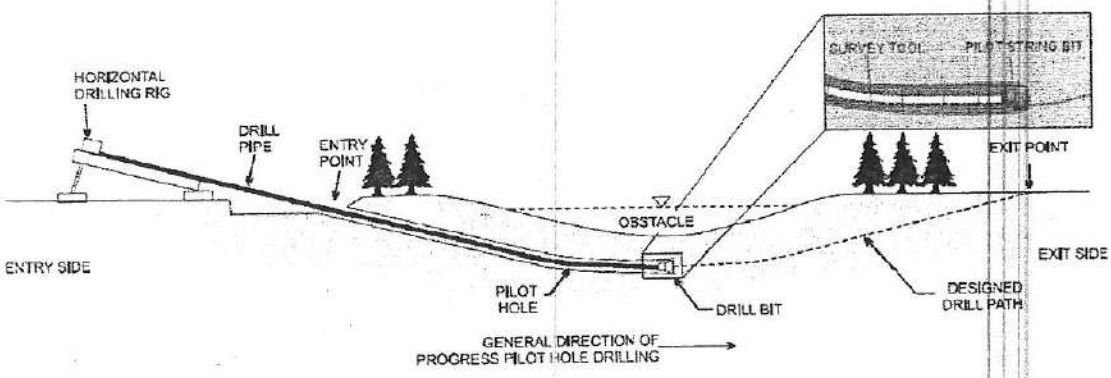
Horizontal Directional Drilling (HDD) – A trenchless method of installing pipe in the ground at variable angles using a guidable drill head

- Used when trenching or excavation is not feasible/practical – Water crossings, road and railway crossings, sensitive wildlife habitats, etc.
- Suitable for variety of soil conditions and pipe diameters

HDD process:

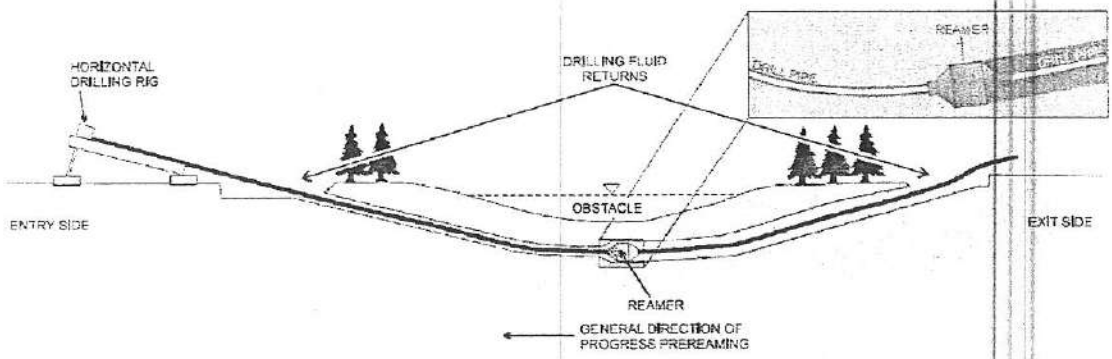
The process starts with receiving hole and entrance pits. These pits will allow the drilling fluid to be collected and reclaimed to reduce costs and prevent waste. The first stage drills a pilot hole on the designed path, and the second stage (reaming) enlarges the hole by passing a larger cutting tool known as the back reamer. The reamer's diameter depends on the size of the pipe to be pulled back through the bore hole. The driller increases the diameter according to the outer diameter or the conduit and to achieve optimal production. The third stage places the product in the enlarged hole by way of the drill stem; it is pulled behind the reamer to allow centering of the pipe in the newly reamed path.

1) Pilot hole – Initial bore drilled along designed drill path



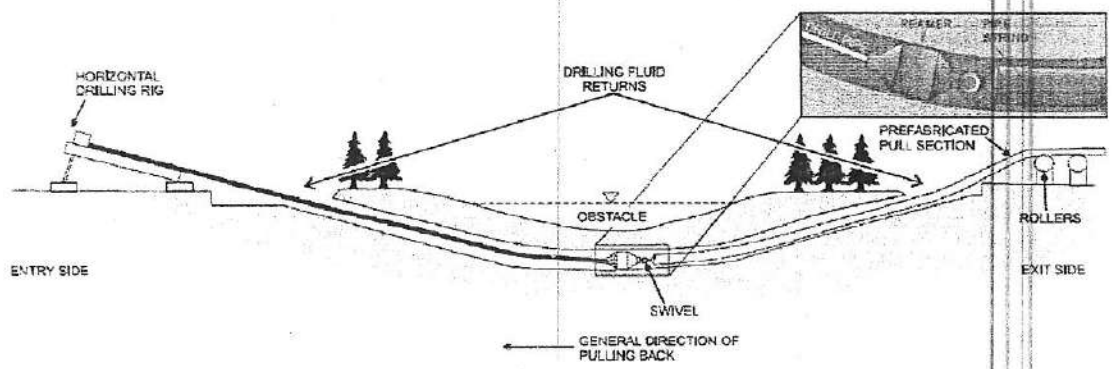
Source: CAPP Publication 2004-0022

2) Reaming pass(es) - increasing the diameter of the pilot hole to allow pipe pullback; may not be necessary for smaller diameter pipelines



Source: CAPP Publication 2004-0022

3) Pipe string pull back – pull back of pre-fabricated pipe



Source: CAPP Publication 2004-0022

Drilling fluids are pumped through drill head during pilot bore, reaming passes and pipe pull back. Horizontal directional drilling is done with the help of a viscous fluid known as drilling fluid. It is a mixture of water and, usually, bentonite or polymer continuously pumped to the cutting head or drill bit to facilitate the removal of cuttings, stabilize the bore hole, cool the cutting head, and lubricate the passage of the product pipe. The drilling fluid is sent into a machine called a reclaimer which removes the drill cuttings and maintains the proper viscosity of the fluid. Drilling fluids hold

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the cuttings in suspension to prevent them from clogging the bore. A clogged bore creates back pressure on the cutting head, slowing production.

Drilling fluids = water + additives (bentonite, polymers, surfactants, etc.)

- Aid drilling process– Suspend and remove drill cuttings
  - Cool and lubricate drill stem and bit
  - Stabilize bore hole
  - Reduce friction between drill/pipe and bore wall

Applications:

The process is used for installing telecommunications & power cable conduits, water lines, sewer lines, gas lines, oil lines, product pipelines and environmental remediation casings. It is used for crossing waterways, roadways, shore approaches, congested areas, environmentally sensitive areas and any area where other methods are more expensive
Directional boring is used in place of other techniques for the following reasons:

- Less traffic disruption
- Lower cost
- Deeper installation possible
- Longer installation possible
- No access pit required
- Shorter completion times
- Directional capabilities
- Safer for the environment

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Calculation Statement

Gujrat gas Limited

	village		Taluka Ratlam		Dist Ratlam					
	Statement showing rent & license fee for laying 15" dia steel pipeline with OFC by Gujrat gas ltd across proposed Deldi Mumbai national Expressway through standered HDD method of carrier pipe and OFC as per circular issued by Government of india Fy 2018-2019									
							Licence Fee			
sr No	Name of Road & type of Crossing/along	NH km	Lenth (mt)	Outer Diameter of the concerned utility line (12" 0.304)	Area (Sq. mt)	circle rate of Land	Rs per sq. mt/month	Rs for five years	The license Fee for public utilities shall be 33% of the Fee	Performance bank guarantee deposited amount RS
							(Area x rate)/(10x12)	(Column 8x12x5/RS		
1	2	3	4	5	6	7	8	9	10	11
1	Delhi Mumbai Expressway Village Nayapura taluka Ratlam Dist Ratlam	km 145.800 and km 2.400 to km 3.300	100	2X6"= 2X0.15	30	700	175	10500	3465	200000

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		Enclosure to Ministry s circular No RW/NH-33044/27/2005-S&R (R) (Pt) date 06-07.08.2013								
		Formate for Maintaining Record of Right-of Way permission granted for laying pipeline								
		(To be maintained separately for every NH and State								
1	Name of State	Executive Engineer (O&M) MPPKVVCL Ratlam								
2	Name of Agency (NH)	PD PIU Ratlam MP								
3	NH Number	Delhi Mumbai Expressway								
Sl	Location (Chainage in km)	Left or right side of NH (towards increasing chanage/km direction	section reach	Kind of service	Name of licenses and contact address	date of signing of agreement	date of validity of agreement	date of last inspection on of site	Any deviation from MOST standard norms	remanrks
1	Crossing Delhi-Mumbai Expressway at chainage km 603.7+603.8	Crossing	2x6" Diameter MPPKVVCL RATLAM (o&M) DIVISION RATLAM (Near palduna village) Crossing Delhi Mimbai Expressway at chainage km 603.7+603.8	2x6" Diameter 33 KV UNDER GROUND CABLE PIPELINE	MPPKVVCL RATLAM (O&M) DIVISION					

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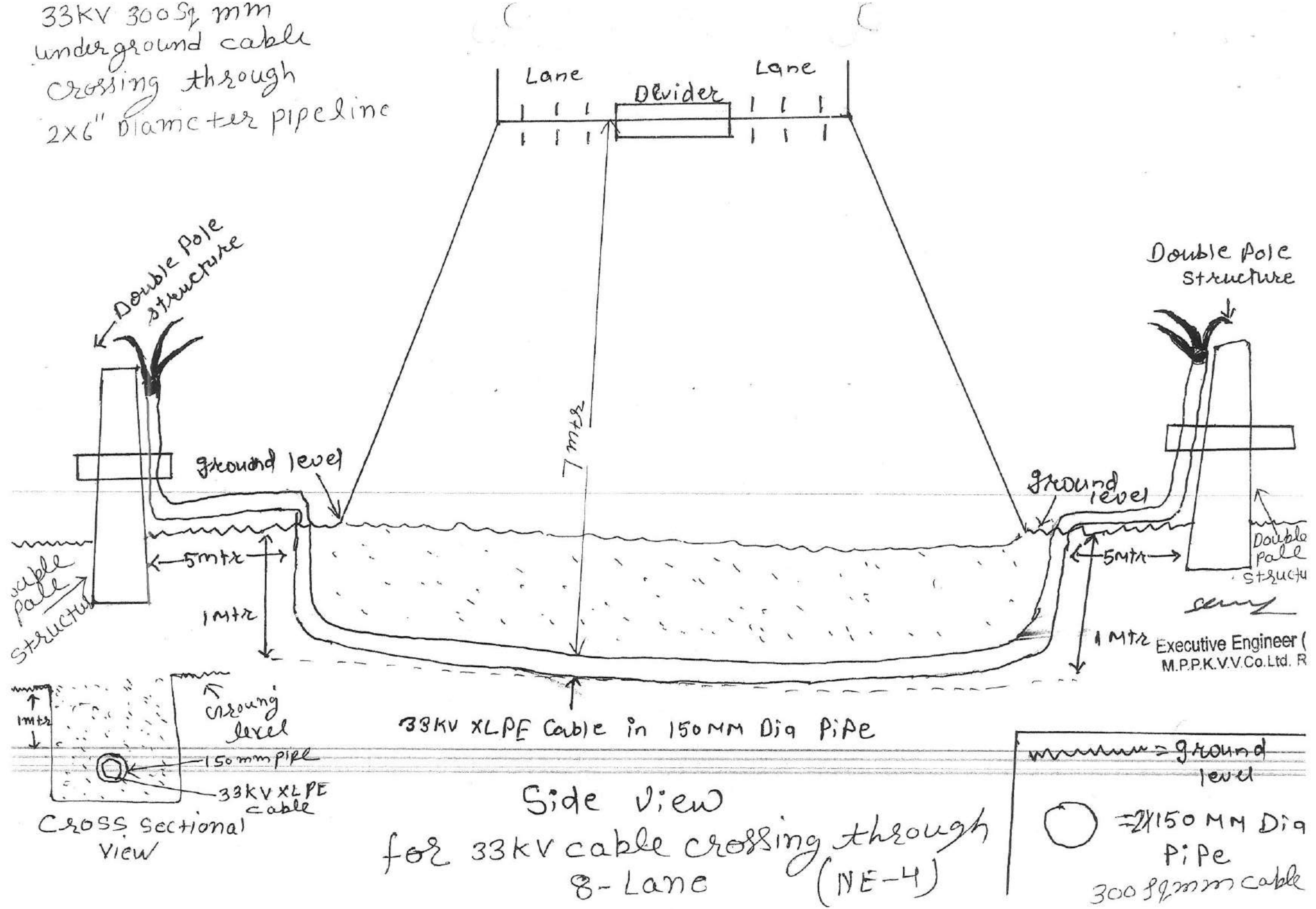

Side View
for 33KV cable crossing through
8-Lane
(NE-4)

Executive Engineer (
M.P.P.K.V.V.Co.Ltd. R

मध्यप्रदेश कम्प्यूटरीकृत भू-अभिलेख

नक्शा की प्रतिलिपि

वर्ष: 2024-25

दिनांक: 09-12-2024 19:14:40

N W E S

ब्लॉक सं.	ग्राम	हल्का	तहसील	जिला
	पल्दूना	पल्दूना	रतलाम	रतलाम
सर्वेक्षण सं.	क्षेत्रफल	भू.रा.शा	मापांक 1:4000 (पृष्ठ आकार A4)	
633(S)	0.5800(हेक्ट.)	0	0 20 40 60 80 120 160 200m	

भूस्वामी : जगदीश पिता मांगीलाल जाति धाकड़ पता पल्दूना रतलाम रतलाम मध्य प्रदेश भूमि स्वामी

(हस्ताक्षर)

नोट :-
1. यह प्रपत्र केवल सूचना की जानकारी के लिये है।
2. इसका उपयोग किसी भी न्यायालय में साक्ष्य के रूप में नहीं किया जा सकता है।
3. डिजिटली साइंड कॉपी के लिए आई.डी. [illegible]