

BHARATMALA
ROAD TO PROSPERITY

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)

परियोजना कार्यान्वयन ईकाई-सोनीपत
Project Implementation Unit - Sonipat



ए-3, उपरी भू-तल पुष्पान्जली एन्क्लेव, पीतमपुरा, नई दिल्ली-110034 • दूरभाष: 011-49048174 • ई-मेल : piuepe@nhai.org
A-3, UGF, Pushpanjali Enclave, Pitampura, New Delhi-110034 • Ph.: 011-49048174 • Email : piuepe@nhai.org

NHAI/PIU-SNP/EPE/F-325/2020/D-1708

Date: 17.02.2020

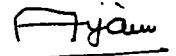
INVITATION OF PUBLIC COMMENTS

Sub: Permission for laying of 33 KV U/G XLPE cable 630sq. mm. for 33 KV line Atterna and Sersa 2nd ckt. KGP EPE through HDPE pipe 160mm dia by H.D.D. method(trenchless boring) on project reg.

1. UHBVN, Sonipat has submitted the proposal for laying of 33 KV U/G XLPE cable 630sq. mm. for 33 KV line Atterna and Sersa 2nd ckt. through HDPE pipe 160mm dia by H.D.D. method(trenchless boring) under KGP(EPE) between chainages from Km. 4+100 to Km. 4+200 for the work on the project in Sonipat, Haryana.
2. As per MORT&H circular no. RW-NH 33044/29/2015/S&R(R) dated 22.11.2016, the Highways Administration will make available the proposal seeking permission for utility laying for public comments for 30 days on ground of public interest.
3. In view of above, the comments of public are invited on captioned proposal and the same should reach to below mentioned address till 20.03.2020 beyond which no comments will be considered.

National Highways Authority of India
PIU-Sonipat
A-3, Pushpanjali Enclave, Pitampura,
New Delhi - 110034
Email: piuepenhai.org

4. This issues with the approval of Highway Administration cum Regional Officer, NHAI, RO-Delhi.


(Asheesh Kumar Jain)
GM(T)/Project Director
PIU-Sonipat

Copy to:

1. The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's website.
2. CGM (T)/RO-Delhi for information please.

original



UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED

1 132KV S/Stn., Power House Colony, Fazilpur Sonipat - 131001

Executive Engineer, Const. Divn.

Phone : 0130-2236025

Mob: 9354726000

E-Mail: xenconstuhbvnsnp@gmail.com

Memo No.Ch- 25 /CDS- 211D

Dated:- 11.11.2019

To,

✓ The Project Director
NHAI. A-3,
Pushpanjali Enclave,
Pitam Pura, Delhi, 110034.

Subject: Proposal for laying of 33 KV U/G XLPE cable 630sq. mm for 33 KV line Atterna and Sersa 2nd ckt. under KGP EPE through HDPE pipe 160mm dia by H.D.D. method (trenchless boring) on Project's :-

(a) Shifting of 33 KV Atterna Link line from 220 Kv S/Stn. Patla to Atterna village & 33 KV Overhead line proposed from 220 KV S/Stn. RGEC Patla to 33 KV S/Stn. RGEC-1 under Op Circle UHBVN Sonapat, under EOI-212/2019.

Ref: Contract No. 827-828/CE PDC/SE Po/XEN DD-III/EOI-212/2019 dated 11 Jul 19.

(b) 33 KV 2nd Circuit on existing 33 KV Line from 33 KV S/Stn. Sersa to 220 KV RGEC Patla under Op Circle UHBVN Sonapat, under EOI-212/2019. Ref: Contract No. 829-830/CE PDC/SE Po/XEN DD-III/EOI-212/2019 dated 29 Jul 19.

Dear Sir,

The subject cited proposal is being submitted for kind approval being emergency work of proposed 2 nos. 33 KV lines from 220 KV Sub station RGEC Patla to 33 KV Sub station Atterna and Sersa. The proposal has been sought to provide better electricity to public in large. Also the existing 33 KV line Atterna fed from 132 KV S/S Rai (Sonapat) is crossing KGP Highway at 3 nos. locations and during construction of KGP Highway this line was made underground by NHAI Deptt and after that regular faults are occurring in underground cables. So the proposal has been made. Further new 33 KV line Sersa is proposed to feed up applied Industrial load in HSIIDC, Kundali and the matter is urgent in nature.

There is KGP Expressway crossing in the proposed route of subject cited lines. It is also submitted that worthy ACS Power, Govt. of Haryana is monitoring this project being urgent in nature. The approved sketches are attached for ready reference.

However this office will lay down 33 KV XLPE cables (8 nos. cores) underground at depth of 2 mtrs. under KGP Expressway through HDPE Pipe 160 mm2 dia by trenchless boring method (Horizontal Directional Drilling), keeping in view of safety of road. All 8 nos. HDPE pipes will be laid down at the same location.


continue...

So, kindly accept the proposal for early approval of crossing of 33 KV U/G XLPE cable under KGP-(Kundli-Ghaziabad-Palwal) Expressway to finish the work at the earliest.

Thanking you in anticipation.

DA/

1. 3 copies of proposal (2 original & 1 copy)
2. Proforma of ANNEX. I & II
3. Under taking on 101 Rs. Stamp paper for SI no. 10.1 to 10.8 in the guidelines
4. Drawing as per SI No. 5.2 in the guideline
5. DLC rates of road side land certified by revenue authority
6. License agreement on 500 Rs. Stamp paper (2 nos. original copy)


XEN Const. Divn.
UHBVN, Sonipat

C.C.

1. S.E Construction Circle UHBVN Panchkula for information please



UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED

1 132KV S/Stn., Power House Colony, Fazilpur Sonipat - 131001

Executive Engineer, Const. Divn.

Phone : 0130-2236025

Mob: 9354726000

E-Mail: xenconstuhbvnsnp@gmail.com

Memo No.Ch-29 /CDS- 2111

Dated:- 27.12.2019

To,

The Project Director
NHAI. A-3,
Pushpanjali Enclave,
Pitam Pura, Delhi, 110034.

Subject: Proposal for laying of 33 KV U/G XLPE cable 630sq. mm for 33 KV line Atterna and Sersa 2nd ckt. under KGP EPE through HDPE pipe 160mm dia by H.D.D. method (trenchless boring) on Project's :-

- (a) Shifting of 33 KV Atterna Link line from 220 Kv S/Stn. Patla to Atterna village & 33 KV Overhead line proposed from 220 KV S/Stn. RGEC Patla to 33-KV S/Stn. RGEC-1 under Op Circle UHBVN Sonapat, under EOI-212/2019.
Ref: Contract No. 827-828/CE PDC/SE Po/XEN DD-III/EOI-212/2019 dated 11 Jul 19.
- (b) 33 KV 2nd Circuit on existing 33 KV Line from 33 KV S/Stn. Sersa to 220 KV RGEC Patla under Op Circle UHBVN Sonapat, under EOI-212/2019. Ref: Contract No. 829-830/CE PDC/SE Po/XEN DD-III/EOI-212/2019 dated 29 Jul 19.

Dear Sir,

The subject cited proposal is already submitted by this office vide this office memo. No. Ch- 25/ CDS -2110 Dt. 11.11.2019 for kind approval being emergency work of proposed 2 nos. 33 KV lines from 220 KV Sub station RGEC Patla to 33 KV Sub station Atterna and Sersa . The proposal has been sought to provide better electricity to public in large . Also the existing 33 KV line Atterna fed from 132 KV S/S Rai (Sonapat) is crossing KGP Highway at 3 nos. locations and during construction of KGP Highway this line was made underground by NHAI Deptt and after that regular faults are occurring in underground cables . So the proposal has been made . Further new 33 KV line Sersa is proposed to feed up applied Industrial load in HSIIDC , Kundali and the matter is urgent in nature.

There is KGP Expressway crossing in the proposed route of subject cited lines. It is also submitted that worthy ACS Power , Govt. of Haryana is monitoring this project being urgent in nature.

So, kindly do needful for early approval of crossing of 33 KV U/G XLPE cable under KGP-(Kundli-Ghaziabad-Palwal) Expressway.

Thanking you in anticipation.

XEN Const. Divn.
UHBVN, Sonipat

C.C.

1. S.E Construction Circle UHBVN Panchkula for information please



UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED

1 132KV S/Stn., Power House Colony, Fazilpur Sonipat - 131001

Executive Engineer, Const. Divn.

Phone : 0130-2236025

Mob: 9354726000

E-Mail: xenconstuhbvnsnp@gmail.com

Memo No.Ch- 30 /CDS- 2111

Dated:- 30.12.2019

To,

The Project Director
NHAI. A-3,
Pushpanjali Enclave,
Pitam Pura, Delhi, 110034.

Subject: Submission documents of Proposal for laying of 33 KV U/G XLPE cable 630sq. mm for 33 KV line Atterna and Sersa 2nd ckt. under KGP EPE through HDPE pipe 160mm dia by H.D.D. method (trenchless boring) on Project's :-

(a) Shifting of 33 KV Atterna Link line from 220 Kv S/Stn. Patla to Atterna village & 33 KV Overhead line proposed from 220 KV S/Stn. RGEC Patla to 33 KV S/Stn. RGEC-1 under Op Circle UHBVN Sonapat, under EOI-212/2019.

Ref: Contract No. 827-828/CE PDC/SE Po/XEN DD-III/EOI-212/2019 dated 11 Jul 19.

(b) 33 KV 2nd Circuit on existing 33 KV Line from 33 KV S/Stn. Sersa to 220 KV RGEC Patla under Op Circle UHBVN Sonapat, under EOI-212/2019. Ref: Contract No. 829-830/CE PDC/SE Po/XEN DD-III/EOI-212/2019 dated 29 Jul 19.

Dear Sir,

In this connection it is intimated that this office has applied for permission for crossing KGP/EPE-II vide this office memo No. Ch-25//CDS-2110 dated 11.11.2019 accordingly your office forwarded the proposal/case to M/s Egis International SA Gaziabad, vide your office memo No. NHAI/PIU-SNP/EPE/PKG-I/F-325/2019/D-1100 dated 26.11.2019. In this regard on dt. 24.12.2019 undersigned met with Mr. Mayank Shrivastav representative of m/s Egis International SA Gaziabad at your Pitam Pura Delhi office. The consultant has pointed out some lack of documents. Now this office has prepare all required documents for proposal and the are submitted to the consultant in original.

So, kindly accept the proposal for early approval of crossing of 33 KV U/G XLPE cable under KGP-(Kundli-Ghaziabad-Palwal) Expressway to finish the work at the earliest.

Thanking you in anticipation.

DA/

1. Mythology
2. Check list of Anne-I & II
3. Cross section drawing
4. Route plan drawing
5. Strip Plan

XEN Const. Divn.
UHBVN, Sonipat

C.C. 1. S.E Construction Circle UHBVN Panchkuia for information please



UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED

132KV S/Stn., Power House Colony, Fazilpur Sonipat - 131001

Executive Engineer, Const. Divn.

Phone : 0130-2236025

Mob: 9354726000

E-Mail: xenconstuhbvnsnp@gmail.com

Subject : Methodology to cross 33 KV U/G Electric cable S/Core XLPE through HDPE Pipe 160 mm dia under KGP EPE NH-II

For new 33 KV electric line, the crossing of KGP EPE NH-II Highway is proposed under ground. Total 8 nos. cores of 33 KV electric cable S/Core XLPE 630 mm² will be laid down each through each HDPE pipe of size 160mm dia (eight nos.). The work will be done by the **Trenchless Boring Method** with the help of machine model **XCMG-320 D** at the depth of minimum 2.0 mtrs. from the the ground level.

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UHBVN Sonipat

Er. Sukhbis Singh Malik
Executive Engineer

Enclosure to Ministry of Road Transport & Highways letter No. RW/NH-33044/27/2005/S&R (R) (Pt.) dated 06.08.2013 & Ministry's circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Annexure II

Format for maintaining Records of Right of Way permission granted for laying 33KV Electric Line (to be maintained separately for every NH and State, every PWD Division or equivalent)

1. Name of State : Haryana
2. Name of Agency (PWD/BRO/NHAI) : NHAI
3. Name of PWD Division or Equivalent : Project Director EPE-II (NHAI), A-3, Pushpanjali Enclave, Pitm Pura, Delhi.
4. NH Number : Kundli-Ghaziabad-Palwal Expressway (EPE-11)

Sr. No.	Location (Chainage in Km.)	Lift or Right side of NH (towards increasing chainage / Km Direction)	Section and reach	Kind of service	Name of licensee and contract address	date of signing of agreement	Date of validity of agreement	Date of last inspection agrement of site	any deviation from MORTH standard norm	Remarks
1	Crossing at Km 4.1 KM	Chainage B/ween 4.1 KM+ 20 mtrs. to 4.2 village Patla	Kundli-Ghaziabad-Palwal Expressway (EPE-11)	Permission for crossing of 33 KV Electric Cables at Chainage 4.1 KM on NH/EPE II village Patla	Executive Engineer Construction Division UHBVN Sonipat					

[Signature]
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UHBVN Sonipat

Checking laying of utility services across EPE		
Sub: APPROVAL FOR LAYING OF HDPE PIPE 160 MM (8 NO.) FOR CROSSING OF 33 KV S/C U/G XLPE CABLE 630 SQ. MM. ON NH LAND		
Sr.No	Checking laying of utility services across EPE	Remarks
1	As to whether utility service proposed to cross the EPE through the structur or conduits especially built for that proposes.	Yes
2	As to whether casing / conduit pipe is provided under the road embankment either by boring or digging a tranch	Yes
3	As to whether trech width is provided between 30CM To 60 CM wider than the outer diameter of the utility pipe	N/A
4	As to whether bedding is provided greater or equal then 30 CM	N/A
5	As to whether the applicant has submitted all desired undertaking as per ministry guideline No. RW/NH-33044/29/2015/S&R Dated 22/11/2016	Yes
6	As to whether the applicant so recived have to be put out in the public donain of 30 days for seeking claim and objection & general public interst.	Yes
7	As to whether the license deed enclosed with the proposal is as per appendix to ministrys guideline NO. RW/NH-33044/29/2015/S&R Dated 22/11/2016 word to word	
8	As to whether license deed , undertaking etc. has been signed by authorized signatory of company	Yes


 XEP Cobet. Diva
 URBAN Council

CHECK LIST

CHECK LIST FOR GETTING APPROVAL FOR LAYING OF HDPE PIPE 160 MM (8 NO.) FOR CROSSING OF 33 KV S/C
U/G XLPE CABLE 630 SQ. MM. ON NH LAND

Sr.No	Item	Information/Status	Remarks
	General Information	Permission for crossing of 33 KV Electric Cables at Chainage 4.1 KM on NH FPE II village Patla	
1.1	Name And Address Of The Applicant	Executive Engineer Construction Division UHBVN Sonipat	
1.2	National Highway Number	Eastern Peripheral Expressway (EPE/NH II)	
1.3	State	Haryana	
1.4	Location	4.1 KM village Patla	
1.5	Chainage In KM	Chainage Between 4.1 KM- 20 mtrs. to 4.2 village Patla	
1.6	length In Meters	105 mtrs.	
1.7	Width OF Available ROW OF NHAI LAND	100.00 mtrs	
	A Left Side From Center Line (Towards Increasing Chainage KM Direction)	50.0 mtrs.	
	B. Right Side From Center Line (Towards Increasing Chainage KM Direction)	50.0 mtrs.	
1.8	Proposal To Lay Underground Electric line		
	A Left Side From Center Line (Towards increase Chainage KM Direction)	50.0 mtrs + 3.0 mtrs	
	B. Right Side From Center Line (Towards Increase Chainage/KM Direction)	50.0 mtrs + 2.0 mtrs	
1.9	Proposal To Acquire Land		
	A. Left Side Of The Center Line	No	
	B Right Side Of The Center Line	No	
1.10	Whether Proposal is in The Same Side Where Land is Not To Be Acquired	Yes	
	If Not Then Where To Lay The Electric line	-----	
1.11	Details Of Already Laid Services, If any , along the proposal route	No	
1.12	Number Of lanes (2/4 or 6/8) existing	6 lanes	
1.13	Proposed number Of Lanes (2 lane with Paved Shoulders or 4 Or 6/8 Lane	-----	
1.14	Service Road (Existing Or Not) Y/N if yes Then Which Side	N/A	
	A. Left Side From center Line (Width)	N/A	
	B Right Side From Center Line (Width)	-----	
1.15	Proper Service Road	-----	
	A. Left Side From Center Line (Width)	-----	
	B. Right Side From Center Line (Width)	-----	
1.16	Whether Proposal To Lay Electric line IS Beyond The Service Road Of Between The Service Road and main carriage way	-----	
1.17	The permission for laying of Electric line shall be considered For approval I rejection based on ministry circulars mentioned as above	-----	


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 UHBVN Sonipat

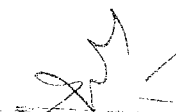
	1. The casting conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a Electric line along it	Yes	
2	Document / Drawing Enclosed With the Proposal	Attached	
2.1	Cross section showing the size of the trench for open trenching method (It is Normal size of 1.2 deep* 0.3 m wide)	NA	
	(i) should not be greater than 60 cm wider than the outer diameter of the pipe	NA	
	(ii) Located as close to the extreme edge of the right of way as possible but not less than 15 meter from the center lines of the nearest carriage way	NA	
	(iii) Shall not be close to the extreme edge of the right of way as possible but not less than 15 meter from the center lines of the nearest carriage way	NA	
	(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not obstruct drainage of the road land	NA	
2.2	Cross section showing the size of pit and location of cable for HOD method.	Attached	
2.3	Strip plan/Route plan showing Electric line, Chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Attached	
2.4	Methodology for Laying of Electric line.	Attached	
2.4.1	Open trenching method (may be allowed in the utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, Methodology or refilling of trench	NA	
	A The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe	NA	
	B. For filling of the trench, bedding shall be to a depth of not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be	NA	
	C. The backfill shall be completed in two stages	NA	
	(i) Side fill to the level of the top of the pipe and	NA	
	(ii) Overfill to the bottom of the road cross	NA	
	D. The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tamping and controlled addition of moisture of 90% of the fill shall be compacted to the same density as the material that had been removed. Proctor's Density Over Consolidation by saturation or ponding will not be permitted.	NA	
	E. The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of dip at the trench	NA	
	F. The excavation shall be protected by flagman, signs and barricades and red lights during the night hours	Agree	


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	C. If required, a diversion shall be constructed at the expense of the agency owing the utility line	NA	
2.4.2	Horizontal Direction drilling (HDD) Method	Agree	
2.4.3	Laying of Electric supply line through HDD work and method laying	Yes	
	A. On approaches the Electric mains/cables shall be carried along a line of way as possible up to a distance of 30 m from the bridge and subject to all other stipulation contained in the ministry's guidelines issued with letter no. NH-HI/p/66116 dated 19-11-1976	Yes	
3	Draft License agreement signed by two witnesses	Yes, Submitted	
4	Performance bank guarantee in favour of NHAI has to be obtained @ Rs. 50/- per running meter (parallel to NH) and Rs. 1,00,000 per crossing of NH for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/ making.	Agree	
	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 50 m 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	
4.1	Performance BG as per above is to be obtained	Agree	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Agree	
5	Affidavit undertaking from the applicant for	Yes	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Yes	
5.2	Renewal of bank guarantee	Yes	
5.3	Confirming all standard condition of NHAI's guidelines	Yes	
5.4	Shifting to Electric lines as and when required by NHAI at their own cost	Yes	
5.5	Shifting due to 6 Lanning / widening of NH	Yes	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes	
5.7	Traffic movement during laying of Electric line to be managed by the applicant	Yes	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant	Yes	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs of alteration to the showing Electric line located in the National Highway right of ways.	Yes	
5.10	Expenditure, if any incurred by NHAI for repairing any damage cause to the National Highway by the laying, maintenance or shifting of the Electric line will be borne	Yes	


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 UBBVN dora

5.11	If the NHAI Consider it necessary infuture to move the utility line for the road. It will be carried out as desired by the NHAI or the cost of the agency owing the utility line with in a reasonable time (not exceeding 60 days) of the intimation given.	Yes	
5.12	Certificate from the applicant in the following format: (i)Laying of Electric line not have any deleterious effects on any of the bridge components and roadway safety for traffic (ii)For 6 Lanning "we do undertake that I 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 six-Lanning or any other development.	Yes	
6	Who will sign the agreement on behalf of Electric line agency	Executive Engineer Construction Division UHBVN Sonipat	
7	Certificate From the Project Director		
7.1	Certificate for confirming of all standard condition issued vide Ministry circular No. NH 41 (58)/68 Dated 31-01-1969 Ministry circular No. NHIII/P/66/76 Dated 18/19/1/1976 Ministry circular No. RW/NH-III/P/66/76 Dated 11-05-1982 Ministry circular No. RW/NH-11037/1/86=DOI (ii) dated 27-7-1993 Ministry circular No. RW/NH-11037/186/DOI Dated 19-01-1995. Ministry circular No. RW/NH/34066/2/95/S&R Dated 25/10/1999 AND Ministry circular No. RW/NH-34066/7/2003 S&R (B) Dated 17-09-2003		
7.2	Certificate From PD in the following Format: (i) it is certified that any other location Of the Electric line would be extremely difficult and unreasonable costly and the installation of Electric line 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 curves etc.		
	(ii) For 6 Lanning		
	(a) 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" (B) In case feasibility Report is not available "I do certify that sufficient ROW is available at Site for accommodating proposed Six Lanning".		

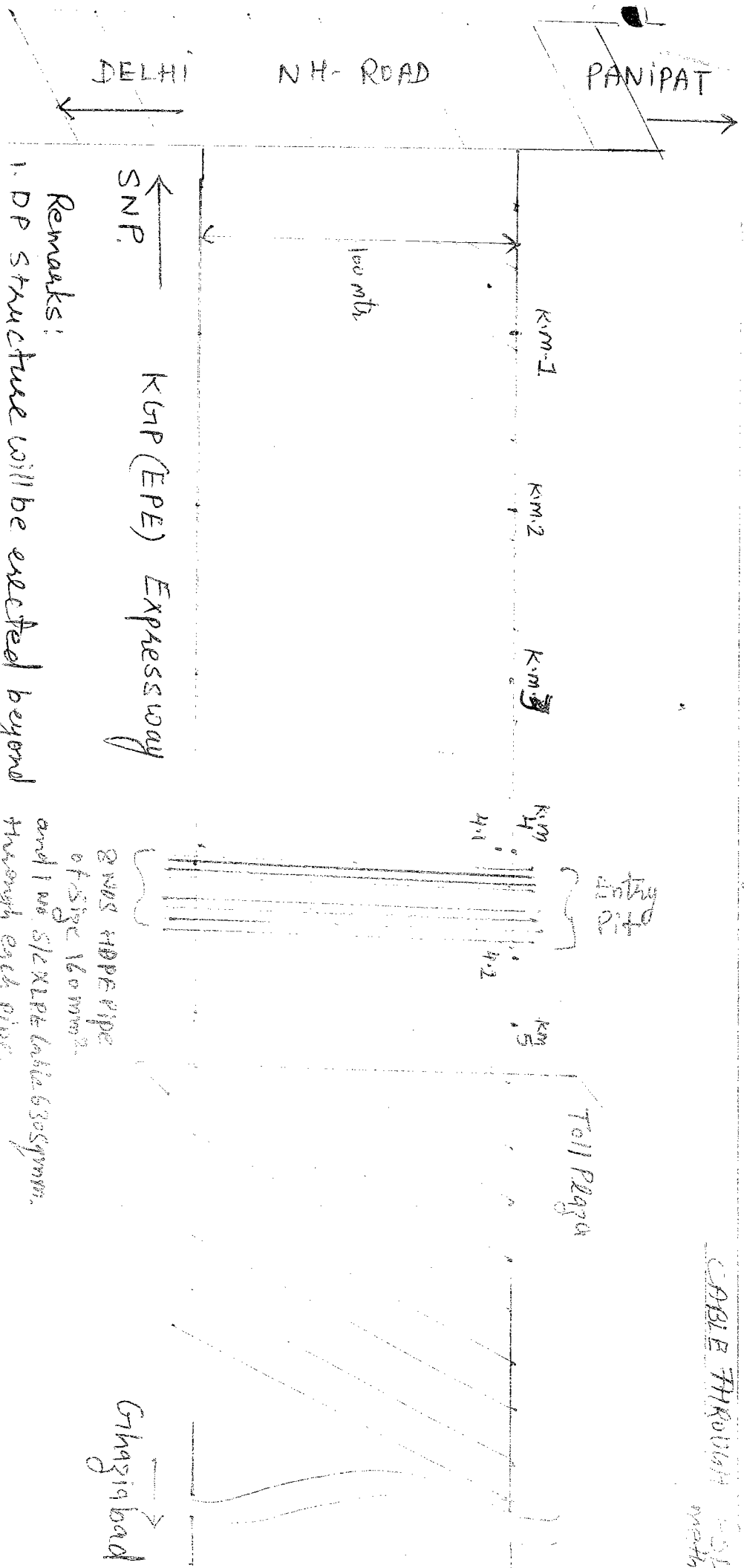

 Const. Divn.
 Sonipat

8	If NH Section proposed to be taken up by NHAI on BOT basis-a clause is to be inserted in the agreement "the permitted highway on which Licensee has been granted the Right to lay Electric 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 no. -----on build, operate and Transfer Basis) and therefore, the licensee shall Hon our the same	Yes	
9	Who will supervise the work of laying of Electric line	(1) Executive Engineer Construction Division UHBVN Sonipat (2) Project Director NHAI	
10	Who will ensure, that the defects in road portion after laying electric line are corrected and if not corrected then what action will be taken	Project Director NHAI	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire	Executive Engineer Construction Division UHBVN Sonipat	
12	A certificate from PD that he will enter the proposed permission in the register records of the permission in the prescribed proforma (copy enclosed)		
13	If any previous approval is accorded for laying of underground Electric line then photo copy of records of permission accord as maintained by PD then copy enclosed	NA	


 XEN Const. Divn.
 UHBVN Sonipat

DRAINING FOR CROSSING OF KGP (EPE) B/w KM 4.1 to 4.2 km FOR 30X40 SP. 10 PE

CABLE THROUGH TSD method



Remarks:

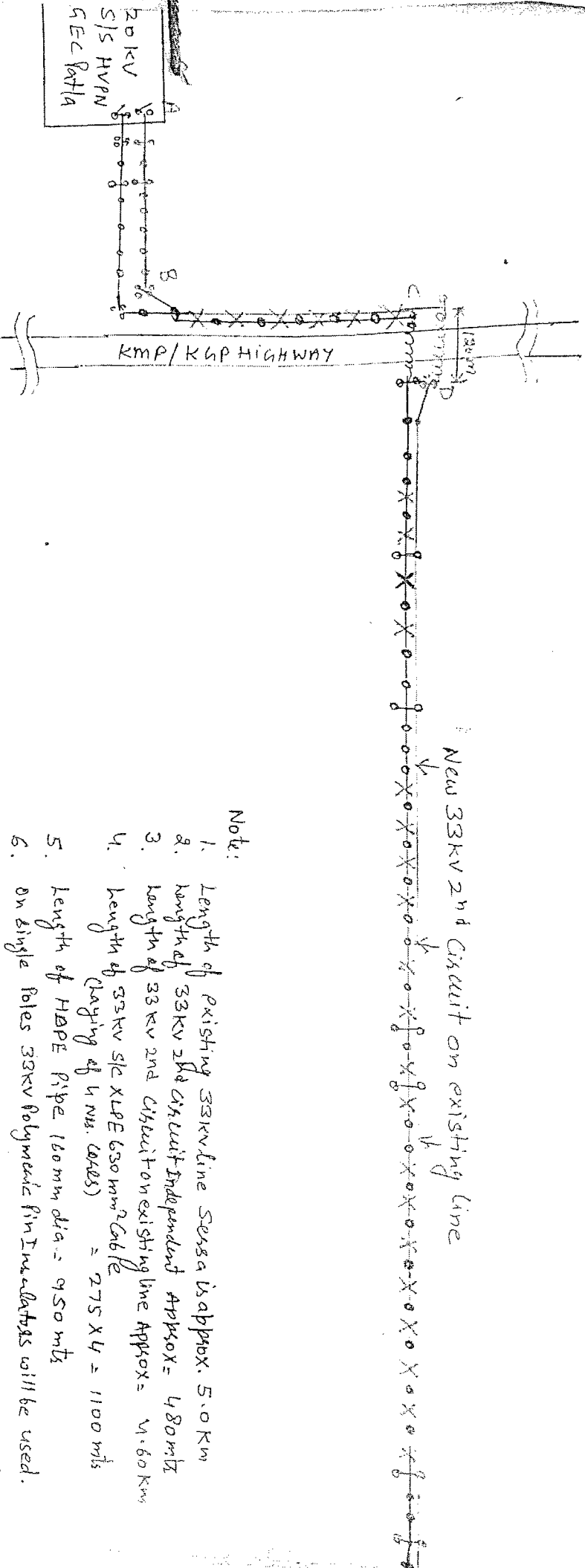
1. DP structure will be erected beyond NH Land.
2. Crossing of NH Road will be done by trenchless boring (HDD method)

[Signature]

[Faint text]

Relative Joint Survey for the work of 33KV 2nd Circuit on existing 33KV line Sessa from

33KV S/S Sessa to 220 KV R&EC Patla under Bd EO-212/2019



Note:

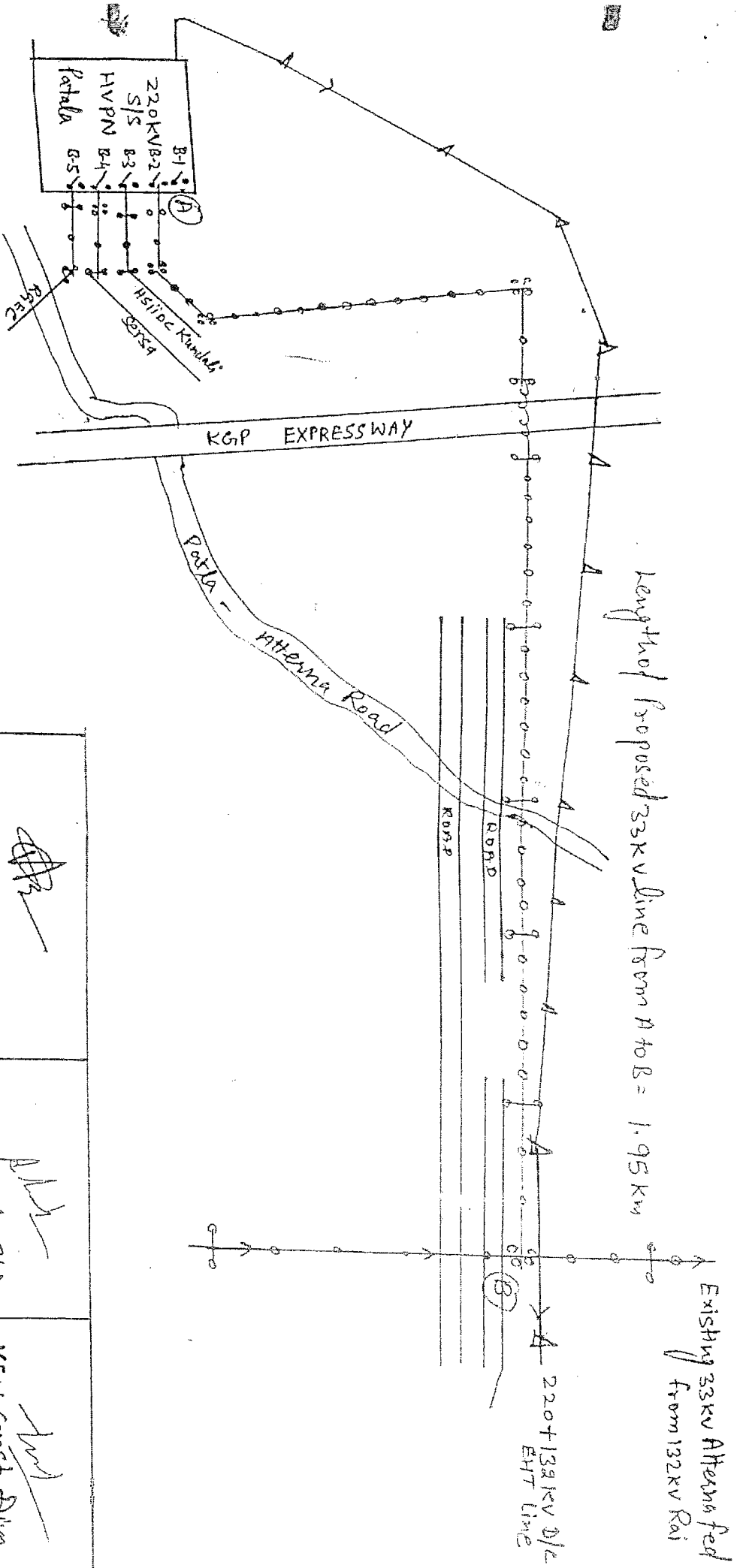
1. Length of existing 33KV line Sessa is approx. 5.0 Km
2. Length of 33KV 2nd circuit independent approx = 4.80 mtr
3. Length of 33KV 2nd circuit on existing line approx = 4.60 Km
4. Length of 33KV SLE XLPE 650 mm² Cable (laying of 4 nos. cores) = 275 X 4 = 1100 mtr
5. Length of H&PE Pipe 160 mm dia = 950 mtr
6. On single poles 33KV Polymeric Pin Insulators will be used.
- 7.

SDO Const. S/Divn.
N Sonapat



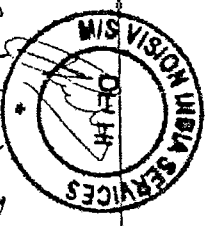
JE Const. S/Div. SNR.	SDO Const. S/D. SNP	XEN Const. Dim. SNP
JE of S/Div. Kundli	SDO of S/Div. Kundli	XEN of City Dim SNP

● Tentative Joint Survey For New Paction to be erected of 33kv line Antenna



length of proposed 33kv line from A to B = 1.95 km

SDO Const. S/DIVIA
UHBVN Sonapat



for M/s Vision India			
JE Const. S/D UHBVN Sonapat	JE Const. S/D UHBVN Sonapat	SDO Const. S/D UHBVN Sonapat	XEN Const. Divia UHBVN Sonapat
JE OP S/D PAT	JE OP S/D PAT	SDO OP S/D UHBVN RAI	XEN OP City Div. UHBVN Sonapat



FORM NO. 10/2014
SERVICES/INDIA

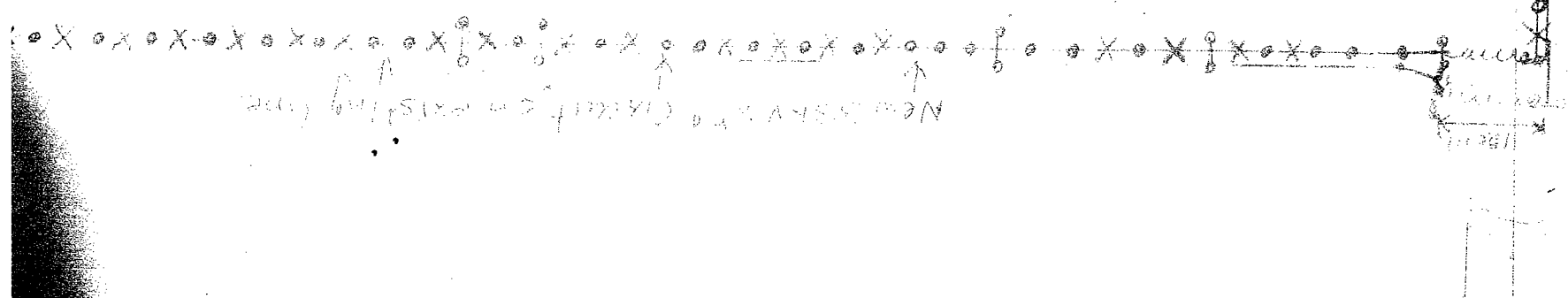
IF OF 33KV LINE

IF OF 33KV LINE

IF OF 33KV LINE

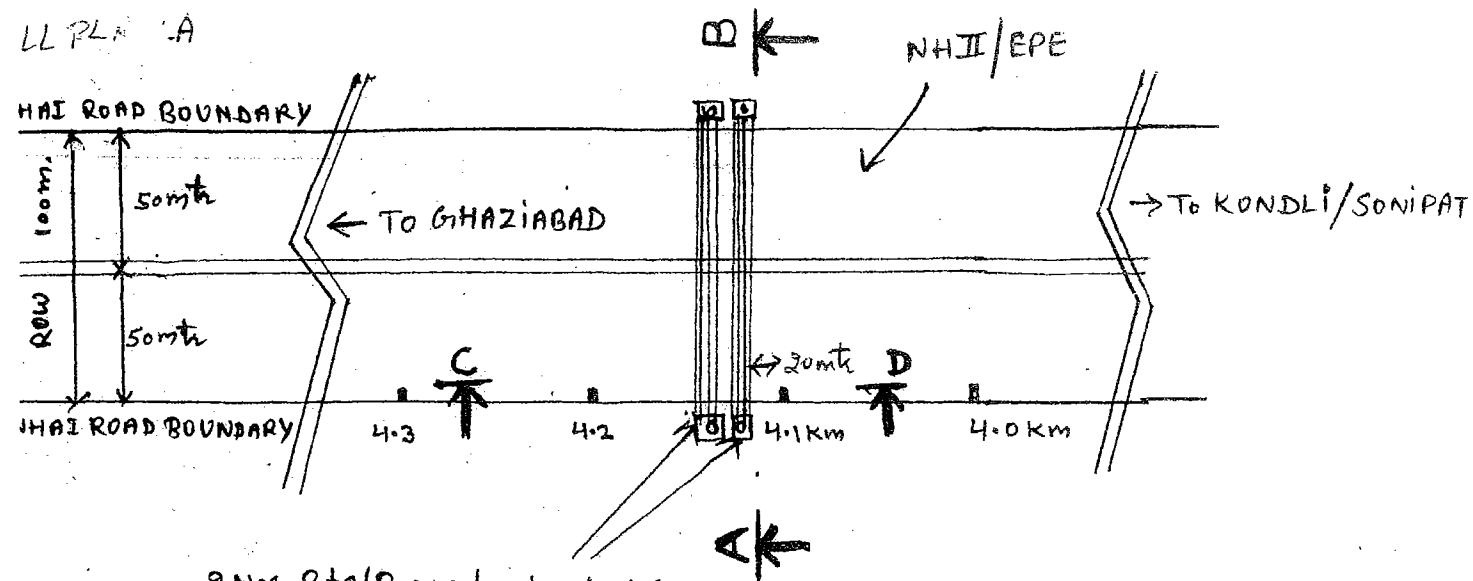
IF OF 33KV LINE

- Note:
1. Length of existing 33KV line S/S is approx. 5
 2. Length of 33KV 2nd circuit independent approx =
 3. Length of 33KV 2nd circuit on existing line approx =
 4. Length of 33KV S/C X/P 630 mm² cable (laying of 4 nos. cores) = $275 \times 4 = 1$
 5. Length of H/P pipe 160 mm dia = 950 mts
 6. On single poles 33KV polymeric pin insulators will
 - 7.



33KV line is shown in blue for RGET Kotla. The diagram is for the work of 33KV 2nd circuit on existing 220KV line.

ING FOR CROSSING OF R.G.P./NH-II/EPE AT CHAINAGE 4.1 KM TO 4.2 KM. FOR 0/1633KVXLPE CABLE THROUGH

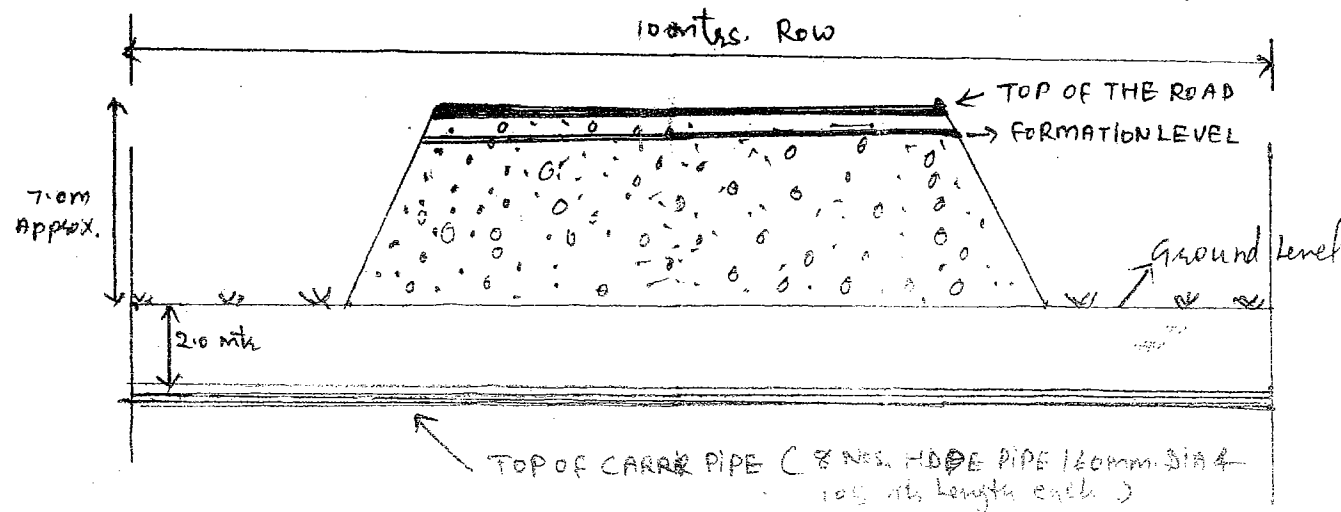


HDPE PIPE 160mm² DIA

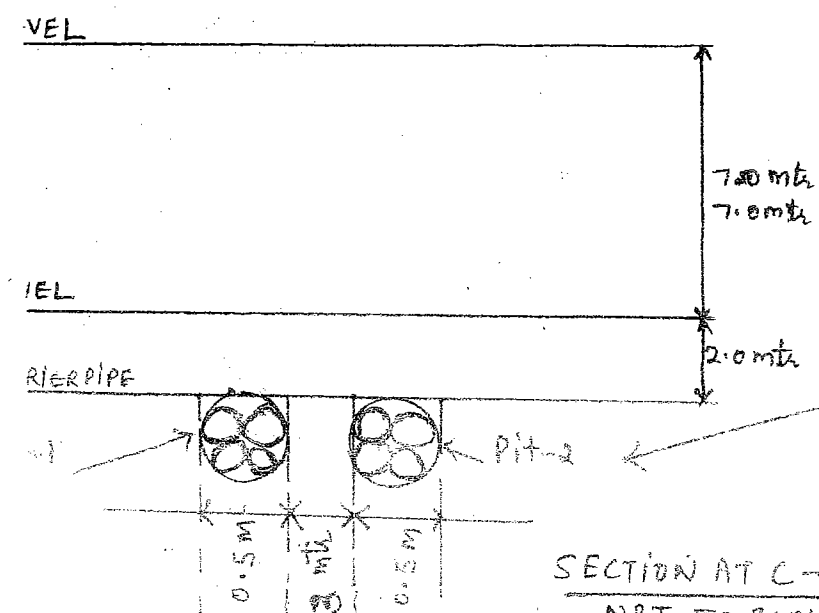
Remarks:-

1. HDPE PIPE of SIZE 160mm DIA - 8 NOS. of length 105 mtr each are to be used.
2. Work will be done by Horizontal Directional Drilling (HDD) method.
3. 2 NOS. Holes/Pits of Size 0.5 mtr dia will be excavated by trenchless Boring/HDD & distance B/w Pits will be 3.0 mtr Approx.
4. HDPE Pipes will be laid down at a depth of 9.0 mtr below Ground level.

2 NOS. Pits/Boxes having 4 NOS. HDPE PIPE of SIZE 160mm dia. through each Pit/Box, to pass 8 NOS. Single core 33KV XLPE cable through each HDPE PIPE.



SECTION AT A-B
NOT TO SCALE



4 NOS. HDPE PIPE 160mm dia each will be passed through each pit (0.5 mtr Pit Size) and there will be 2 NOS. Pits/Boxes.

SECTION AT C-D
NOT TO SCALE

XEN Const. Divn.
TTHBVN Sonipat