



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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

क्षेत्रीय कार्यालय/REGIONAL OFFICE

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

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

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

NHAI/RO-MP/CHW/OFC-Jio/2022/ 46890



सत्यमेव जयते



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Date: 04.06.2022

Invitation of Public Comments

Sub: Permission for lay Optical Fiber Cable on NH-44 (old NH-7) from Seoni to Khawasa road from Seoni Km. 600.000 to Mohgaon Village Km 624.480, from Mohgaon Village Km 624.480 to Suktara Village Km. 626.700, from Pindkapar Village Km 636.550 to Km 638.400, from Pipariya Village Km. 639.450 to Setewani Village Km. 642.900, from Pachdhar Village Km. 647.900 to km 649.000 and km 650.150 to Khawasa Km 653.000 Total Section length ROW applied for 35.030 Kms.-reg.

Ref: 1. PD, PIU-Chhindwara letter no. 5074 dated 20.05.2022
2. PD, PIU-Chhindwara letter no. 4832 dated 16.03.2022
3. Authorized Signatory, M/s Jio Digital Fiber Pvt Ltd, letter dated 11.04.2022
4. Authorized Signatory, M/s Jio Digital Fiber Pvt Ltd, letter dated 02.12.2021

The Project Director, PIU-Chhindwara NHAI vide their letter dated 20.05.2022 has submitted the Proposal for grant of ROW Permission for lay Optical Fiber Cable on NH-44 (old NH-7) from Seoni to Khawasa road from Seoni Km. 600.000 to Mohgaon Village Km 624.480, from Mohgaon Village Km 624.480 to Suktara Village Km. 626.700, from Pindkapar Village Km 636.550 to Km 638.400, from Pipariya Village Km. 639.450 to Setewani Village Km. 642.900, from Pachdhar Village Km. 647.900 to km 649.000 and km 650.150 to Khawasa Km 653.000 Total Section length ROW applied for 35.030 Kms.

2. As per Ministry vide OM No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the Highways Administrator will make available the proposal seeking permission for utility laying for public comments for **30 days** on ground of public interest.

3. In view of the above the comments of public are invited on captioned proposal (copy of application is enclosed) and the same should reach to below mentioned address till **03.07.2022** beyond which no comments will be considered.

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

4. This issues with the approval of Highways Administrator Cum Regional Officer, NHAI, Bhopal (MP).


(Anand Prasad)
Manager (T)

Copy to:

- Web-Admin, nhai.org@gmail.com, NHAI-HQ for uploading on NHAI website.
- The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.
- The Project Director, PIU-Chhindwara (MP) for information please.
- M/s Jio Digital Fiber Pvt Ltd for information.

Methodology of Laying of OFC - Open Trenching & Trenchless (HDD)

Trenching Method:

Laying of Optical Fiber Cable along NH-44(Old NH-07) along the mentioned route will be done by conventional method/manual and Machine Trenching method. The dimension of the trench will be 165 cms in depth and 45 cms in width. The Cable laying work will be carried out in phased manner in such a way that after the HDPE / Protection ducts are laid for Optical Fiber Cable, the trench will be reinstated to its original surface.

Trench Filling Method:

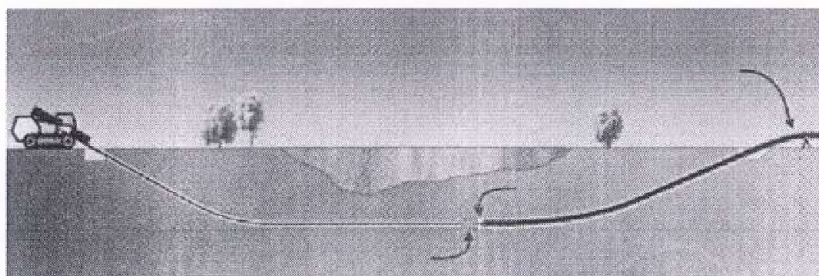
As a measure of abundant precaution against future settlement and other allied problems, only selected granular material will be used in filling reinstatement of trenches. The entire depth of cutting will be filled either with coarse sand or the excavated material, compacted in layers not exceeding 75 mm when compacted by ordinary power roller /plate compacter. Special Compaction equipment like plate compacter, frog hammer will be utilized besides ordinary power roller.

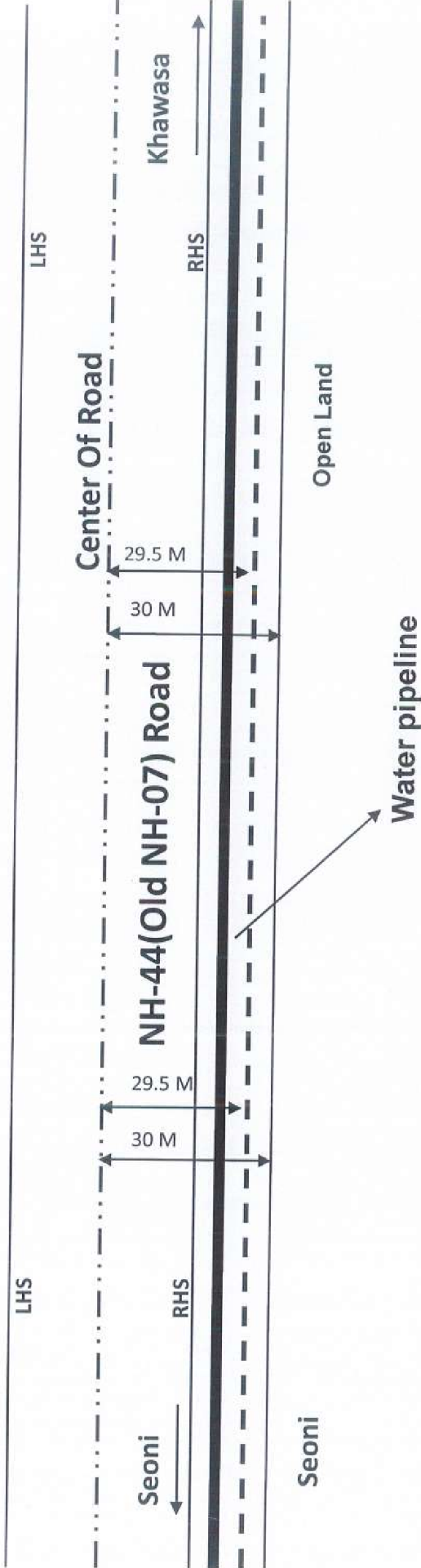
Trenchless Crossing: HDD Method

Horizontal Directional Drilling (HDD) is a technique for installing product pipes, including utility lines, below ground using a surface-mounted drill rig that launches and places a drill string at a shallow angle to the surface and has tracking and steering capabilities. In recent years HDD has been the preferred methodology due to several government policies conducive to infrastructure growth.

All crossing on the Route will be done by Horizontal Directional Drilling method without disturbing the road surface.

A Typical HDD Methodology is shown below:

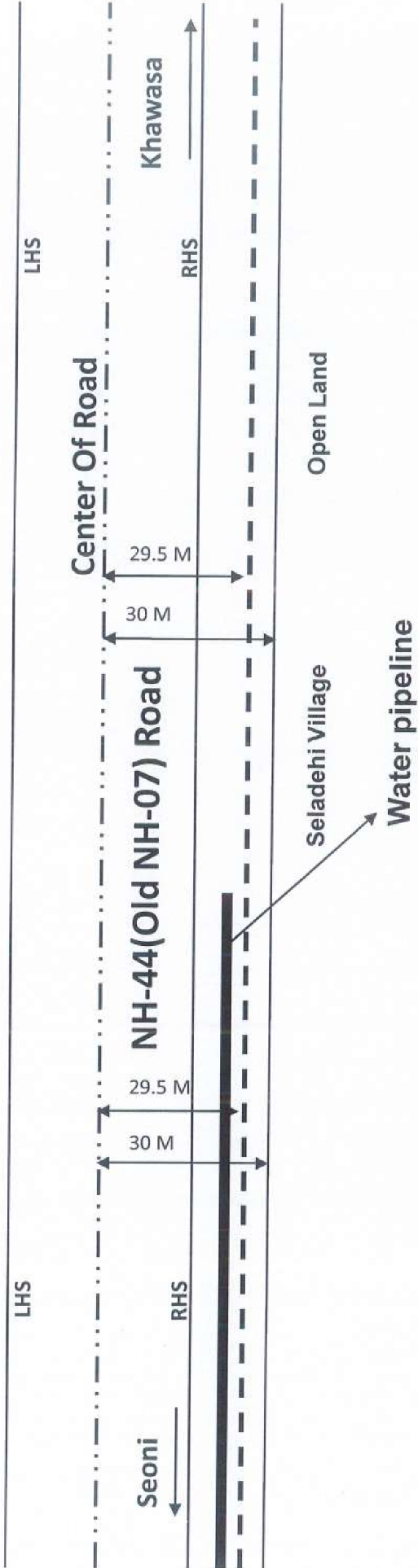




Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	-----
Ch: KM 600 to KM 605 Along RHS NH-44(Old NH-07) Road	

We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.

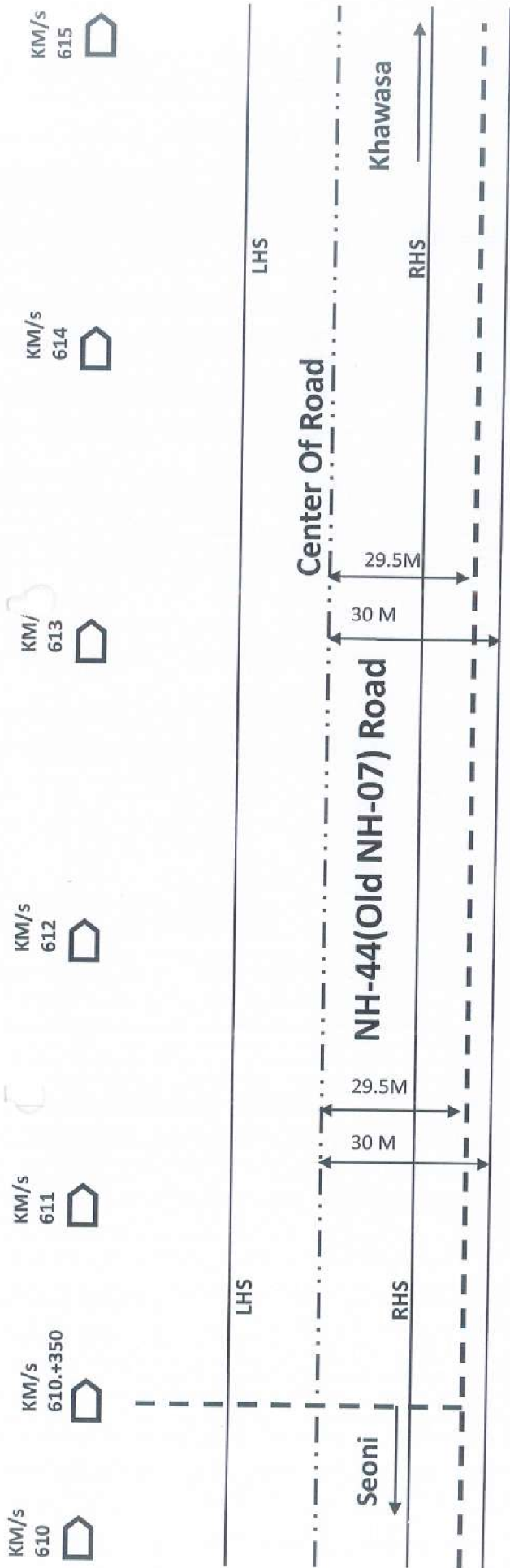


Name of Route	Seoni-Khawasa NLD Route		
	Jio Digital Fibre Pvt. Ltd.		
Proposed Route	-----		
Ch: KM 605 to KM 610 Along RHS NH-44(Old NH-07) Road			

We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc; below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.

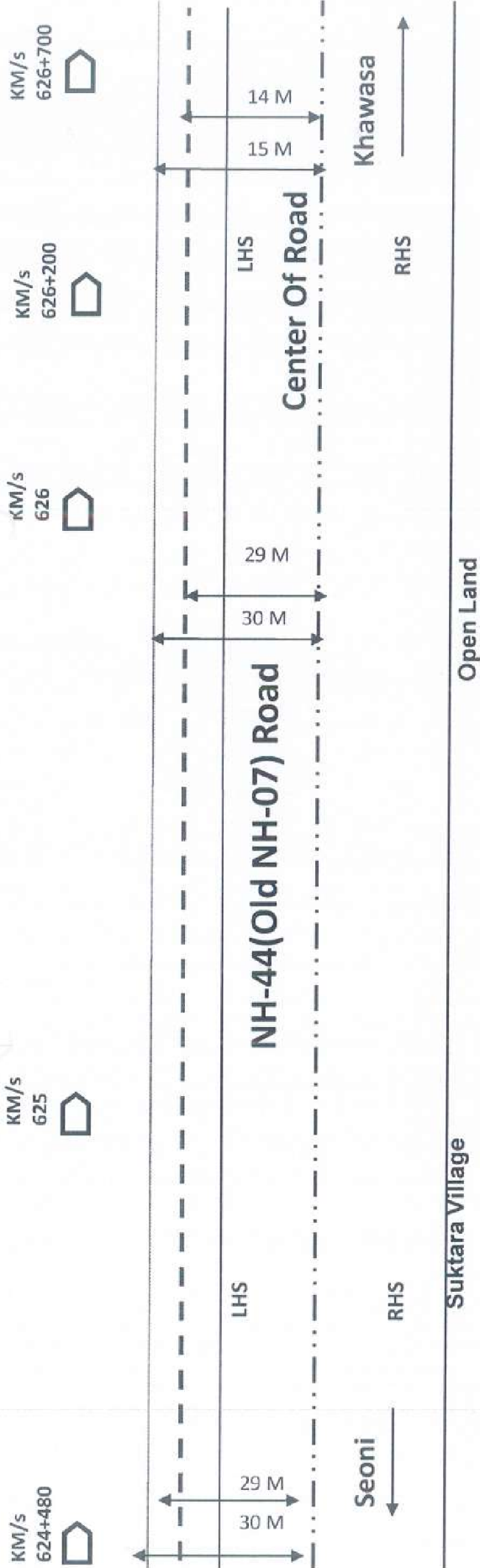




Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	-----
Ch: KM 610 to KM 615 Along RHS NH-44(Old NH-07) Road	

We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.





We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.

Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	---
Ch: KM 624+480 to KM 626+700 Along RHS NH-44(Old NH-07) Road	

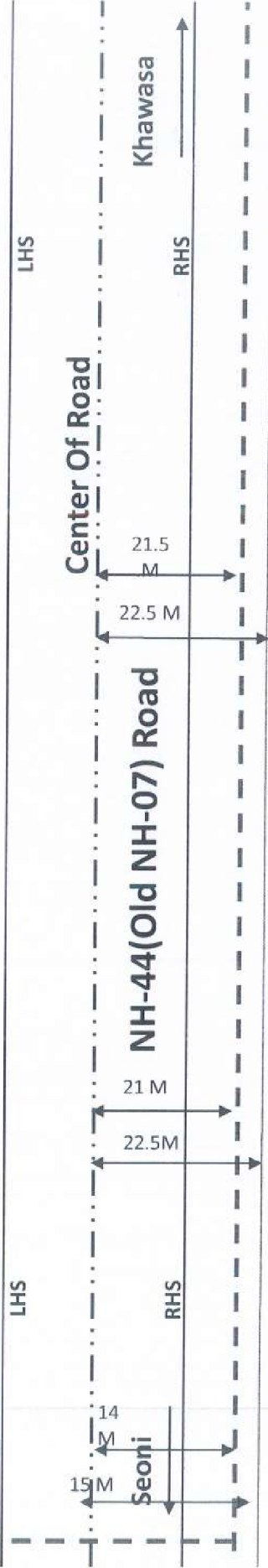


KM/s
636+550

KM/s
637

KM/s
638

KM/s
638+400



Pindkappar Village

Open Land

Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	---
Ch: KM 636+550 to KM 638+400 Along RHS NH-44(Old NH-07) Road	

We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible, the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure



KM/s
639+450

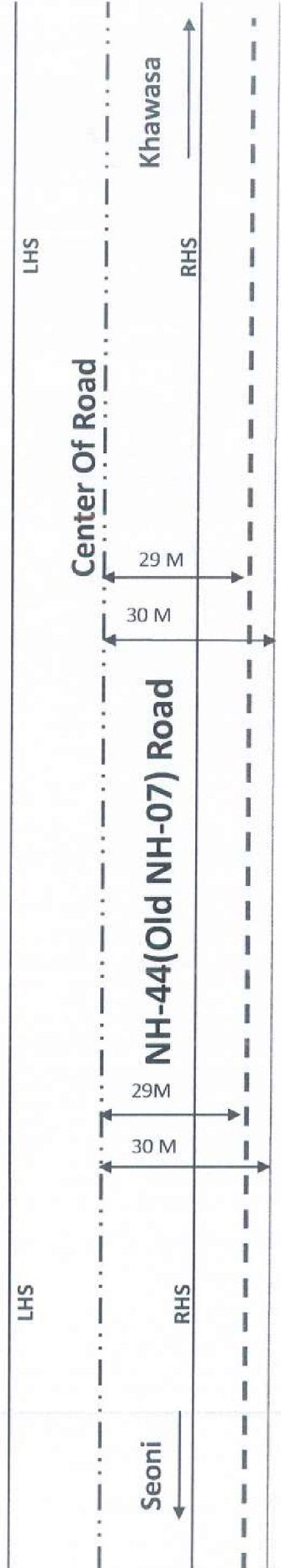
KM/s
640

KM/s
641

KM/s
641+300

KM/s
642

KM/s
642+900



Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	---
Ch: KM 639+450 to KM 642+900 Along RHS NH-44(Old NH-07) Road	

We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.



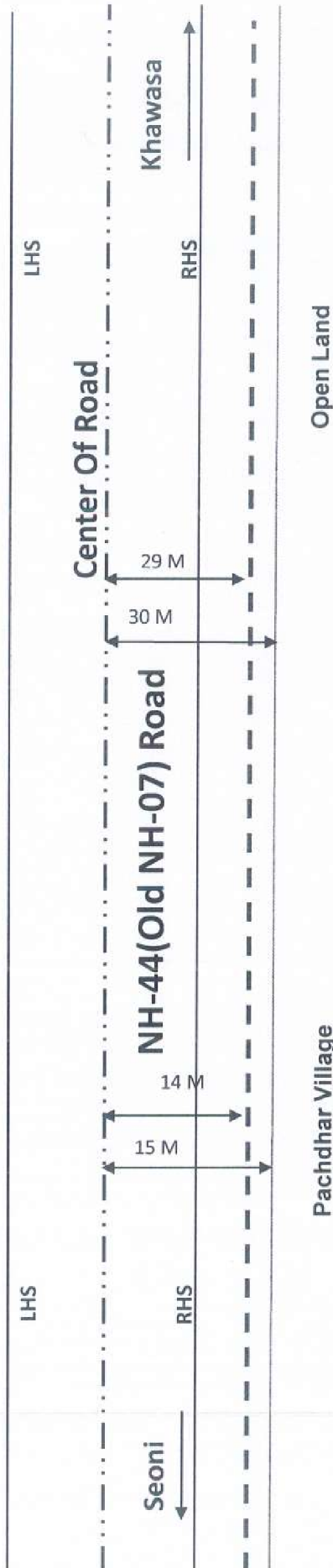
KM/s
647+900



KM/s
648



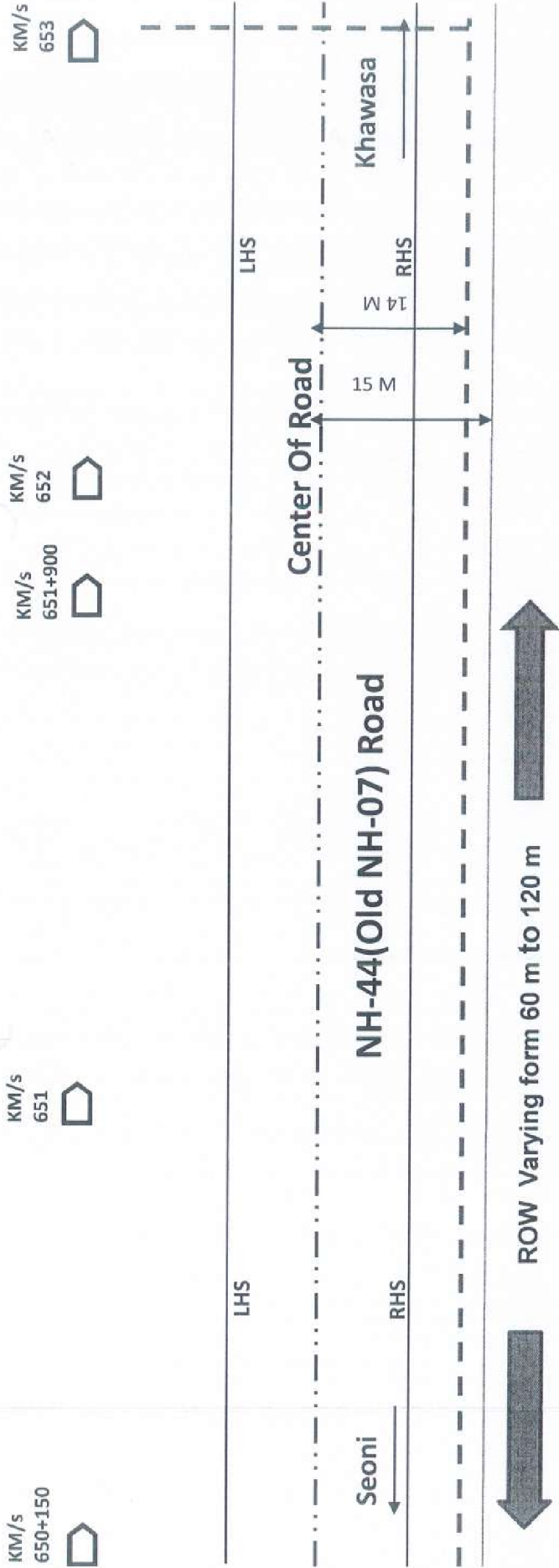
KM/s
649



Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	---
Ch: KM 647+900 to KM 649 Along RHS NH-44(Old NH-07) Road	

We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.



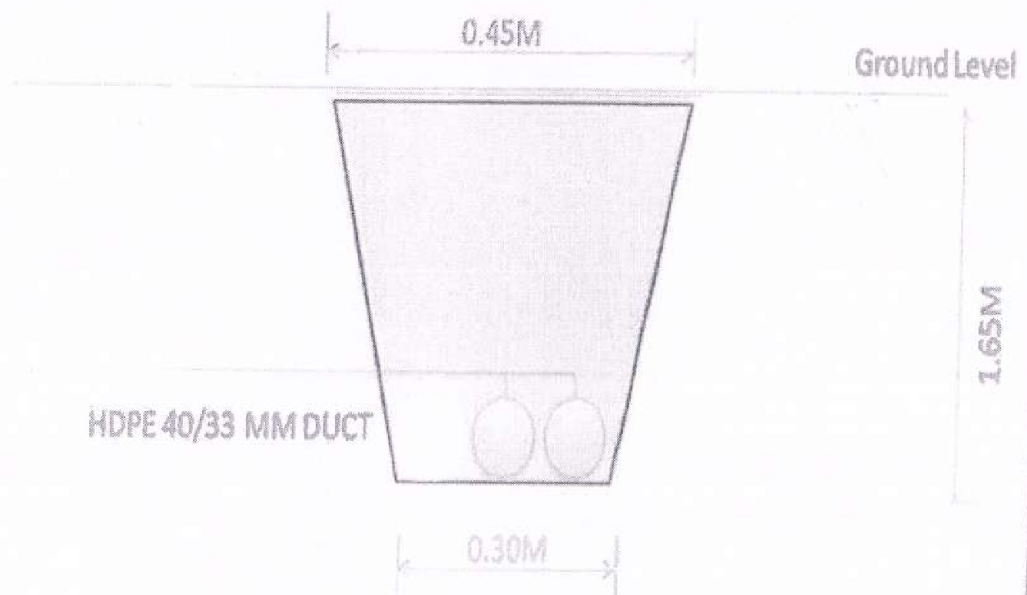


Name of Route	Seoni-Khawasa NLD Route
	Jio Digital Fibre Pvt. Ltd.
Proposed Route	---
Ch: KM 650+150 to KM 653 Along RHS NH-44(Old NH-07) Road	

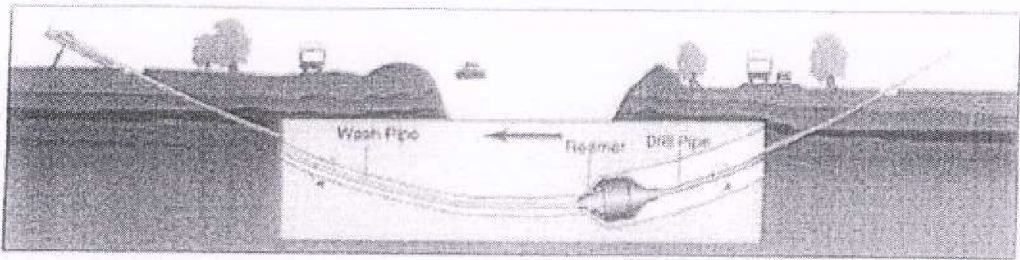
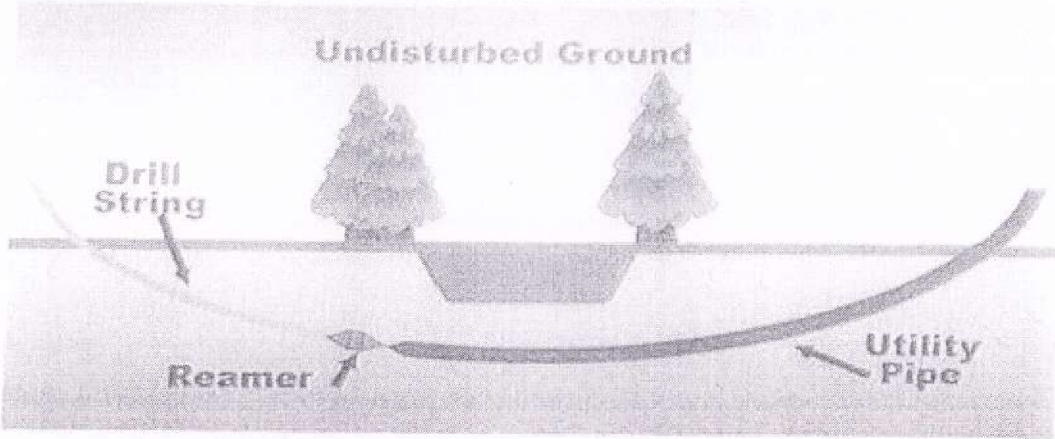
We shall make our own arrangement for crossing of cross-drainage structure, rivers, etc, below the bed. In case, this is not feasible; the cables/ducts may be carried outside the railing/parapets and supported on brackets fixed to the outside of the bridge superstructure.



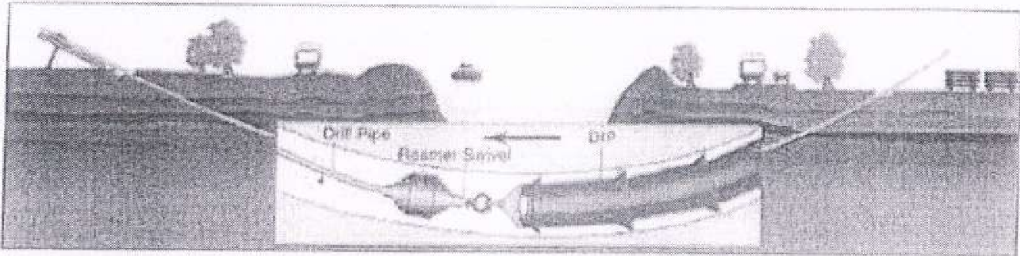
TYPICAL CROSS SECTION OF TRENCHING FOR OFC LAYING



Pictures Showing HDD Process and HDD Machine

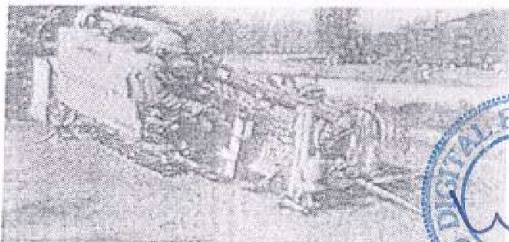
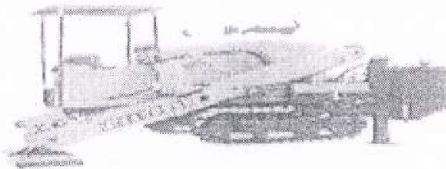
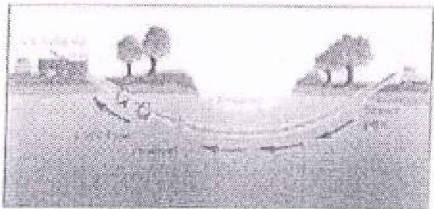


PRE-REAMING



Schematics are courtesy of the Directional Drilling Contractors Association

PULL-BACK



Annexure 8

Methodology of Laying of OFC - Open Trenching & Trenchless (HDD)

Trenching Method :

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Trench Filling Method:

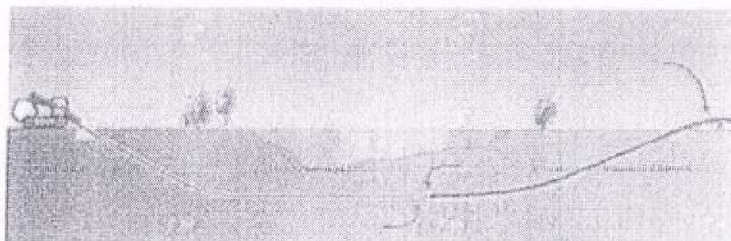
As a measure of abundant precaution against future settlement and other allied problems, only selected granular material will be used in filling reinstatement of trenches. The entire depth of cutting will be filled either with coarse sand or the excavated material, compacted in layers not exceeding 75 mm when compacted by ordinary power roller /plate compactor. Special Compaction equipment like plate compactor, frog hammer will be utilised besides ordinary power roller.

Trenchless Crossing : HDD Method

Horizontal Directional Drilling (HDD) is a technique for installing product pipes, including utility lines, below ground using a surface-mounted drill rig that launches and places a drill string at a shallow angle to the surface and has tracking and steering capabilities. In recent years HDD has been the preferred methodology due to several government policies conducive to infrastructure growth.

All crossing on the Route will be done by Horizontal Directional Drilling method without disturbing the road surface.

A Typical HDD Methodology is shown below:



Endorsed by Ministry of Road Transport & Highways letter No RW/30.1/2044/T/2005/S&R(P) (71) dated 04.08.2013

Annexure-IV

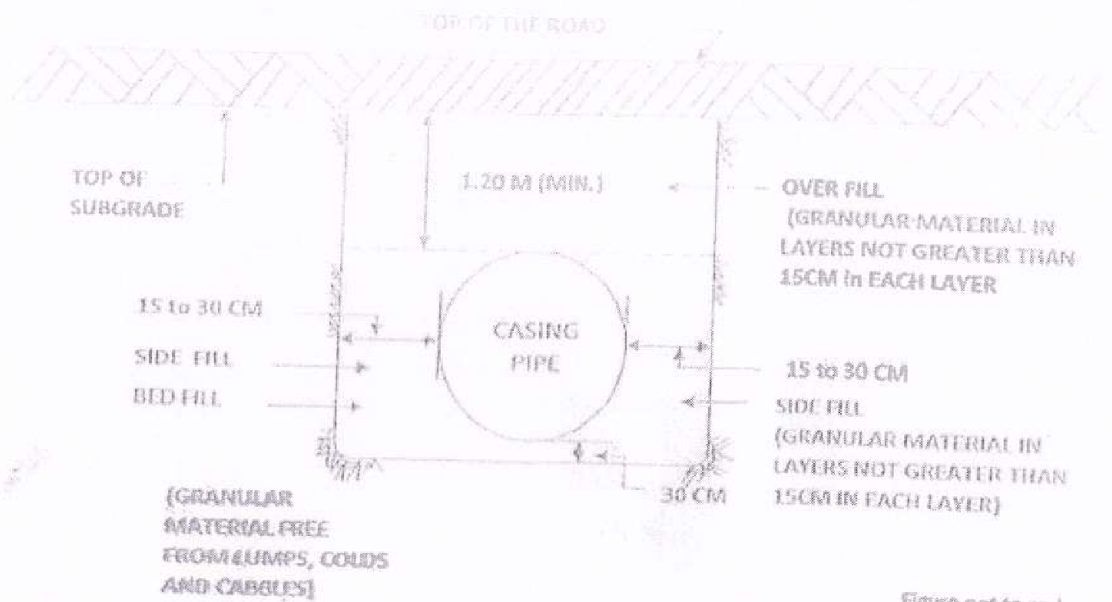


Figure not to scale

FIGURE-1 INSTALLATION OF CASING PIPE FOR CROSSING THE ROAD



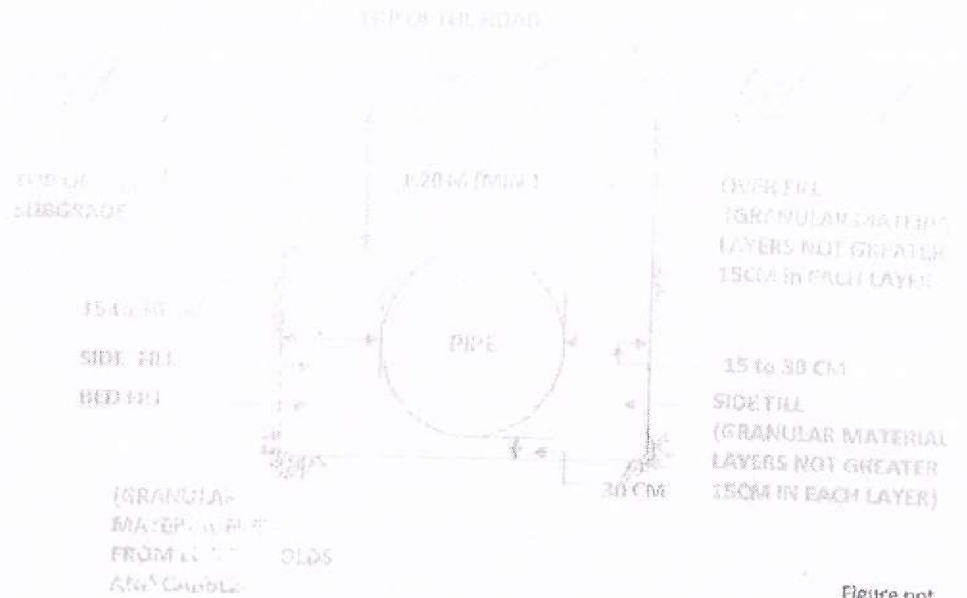
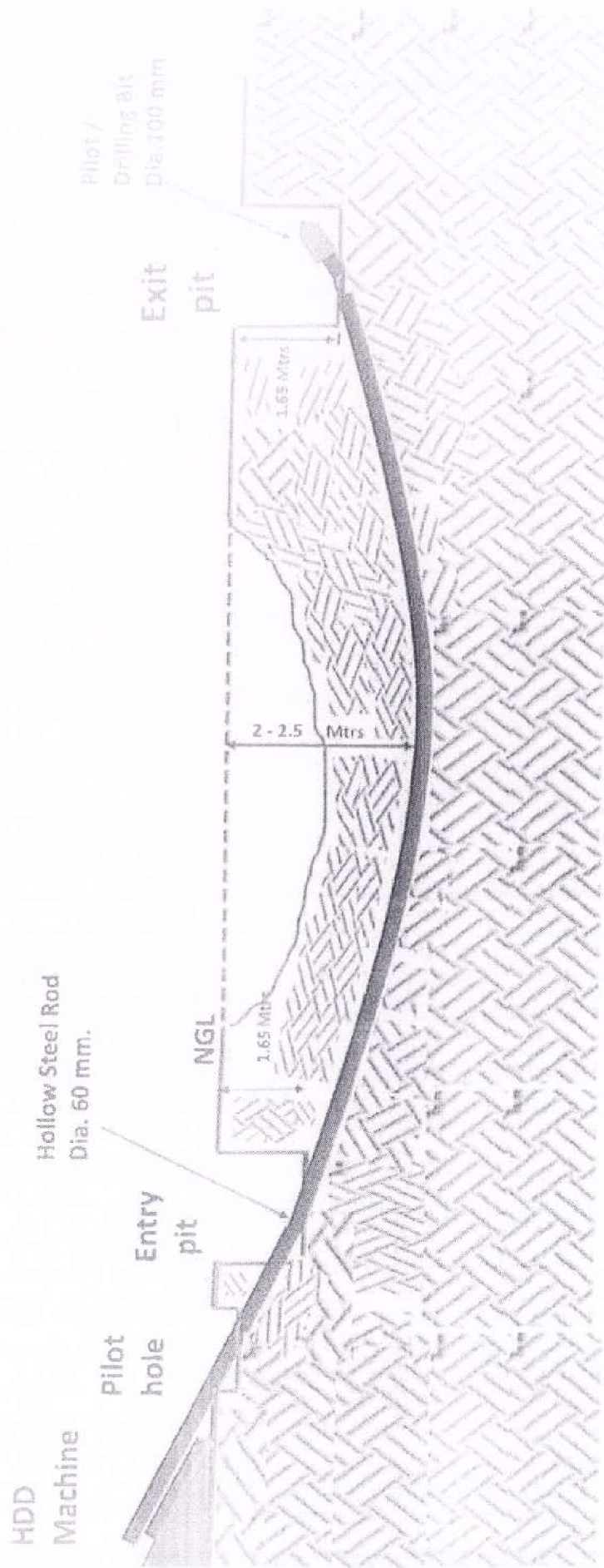


Figure not

FIGURE-2 INSTALLATION OF PIPE FOR
ALONG THE ROAD





TYPICAL CROSS SECTION SHOWING HORIZONTAL DIRECTIONAL DRILLING



CHECK-LIST

Guidelines for Project Directors for processing the proposal of laying optical fiber cable by private parties in the land along National Highways vested with NHAI.

Relevant circulars

- 1) Ministry Circular No. RW/NH-33044/17/2000-S&R dated 29.09.2000
- 2) NHAI's circular No. NHAI/OEC/2k/Vol II dated 7.11.2000, which includes the comprehensive guideline and draft license agreement for laying of OFC cable by private party in the land along National Highway vested with NHAI.
- 3) Ministry's circular No. RW/NH-333044/27/2000-S&R (R) date 21.03.2006. It is regarding the modification of previous Ministry's circular enhancing the amount of Performance Bank Guarantee @ Rs. 50/- per route meter in place of earlier rate of Rs. 25/- per route meter.
- 4) Ministry's circular No. RW/NH-33044/27/2005-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 in place of earlier rate of Rs. 50/- per route meter.
- 5) Ministry of Road Transport & Highways letter No. 33044 / 29 / 2015 /S&R(R) dated 22.11.2016. It is regarding the modification of previous Ministry's circular enhancing the amount of Performance Bank Guarantee @ Rs. 100/- & additional charges as per utilized NH Land area.



Check list for getting approval for laying of optical fiber cables on NH land

S. No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant	Jio Digital Fibre Pvt. Ltd. Regd. Office: Corp. Office: 101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006, Gujarat, India. Tel no.: 079-35600100	
1.2	National Highway Number	NH-44(Old NH-07)	
1.3	State	Madhya Pradesh	
1.4	Location	Seoni to Khawasa Road	
1.5	(Chainage in km)	NH-44 (Old NH-07) Seoni to Khawasa road from Km/s 600+000 to Km/s 624+480, Km/s 624+480 to Km/s 626+700, Km/s 636+550 to Km/s 638+400, Km/s 639+450 to Km/s 642+900, Km/s 647+900 to Km/s 649+000 and Km/s 650+150 to Km/s 653+000 (Map attached). Total section length ROW applied for 35.030Kms	
1.6	Length in Meters	35030 Mtrs.	
1.7	Width of available ROW	Varying from 30-68 metre	
	(a) Left side from center line towards increasing chainage/km direction	As per Drawings attached	
	(b) Right side from center line towards increasing chainage/km direction	As per Drawings attached	



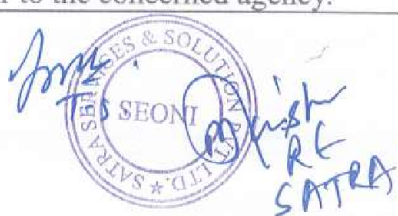
1.8	Proposal to lay the cable		
	(a) Left side from center line towards increasing chainage/km direction	NH-44(Old NH-07) Mohgaon to Kurai Village from 1.Km/s 620+000 to Km/s 626+700 Total section length ROW applied for 6.7Kms	
	(b) Right side from center line towards increasing chainage/km direction	NH-44(Old NH-07) Seoni to Suktara Ryt road 1. From Km/s 600+000 to Km/s 620+000 and 2. from 636+550 to Km/s 638+400, 3. from Km/s 639+450 to Km/s 642+900 4. from Km/s 647+900 to Km/s 649+000 and Km/s 650+150 to Km/s 653+000 Total section length ROW applied for 28.33Kms	
1.9	Proposal to acquire land	No	
	(a) Left side form center line		
	(b) Right side from center line		
1.10	Whether proposal is in the same side where land is not to be acquired	YES	
	If not then where to lay the cable		
1.11	Details of already laid services, if any, along the proposed route	Water pipline	
1.12	Number of lanes (2/4 / 6/8 lanes) existing	4 Lanes	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	From Ch. 637+300 to 638+500 From Ch. 650+200 to 651+00 From Ch. 651+00 651+00	



		From Ch. 621+800 to 622+400 From ch.623+350 to 624+200 From Ch.612+200 to 612+800	
	(b) Right side from center line	From Ch. 637+300 to 638+500 From Ch. 650+200 to 651+00 From Ch. 651+00 to 651+350 From Ch. 621+800 to 622+400 From ch.623+350 to 624+200 From Ch.612+200 to 612+800	
1.15	Proposed Service Road		
	(a) Left side from center Line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay cable is after the service road or between the service road and main carriageway	Extreme Edge of RoW	
1.17	The permission for laying OFC shall be considered for approval/rejection		
	(i) Where the ROW is more than 60 m then the duct cable shall be laid at the edge of right of way within the utility corridor of 2m width, duly keeping in view the future widening.	Yes	
	(ii) where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2m width, on that side of existing carriageway where extra land is not proposed to be acquired for 4-laning.	NA	
	(iii) Where the widening plan for 4-laning is not yet decided and available ROW is around 30m or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5m to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans.	NA	
	(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.	NA	
	(v) Where land strip for utility corridor cannot be conveniently earmarked (available ROW restricted to the	NA	



	toe of the embankment) for laying of cable/ducts, the permission may be refused.		
1.18	No. of applicants on the same stretch	01 (from chainage Km-600+00 to Km-607+000)	
1.19	Whether the case of multiple licenses	Double from chainage Km-600+00 to Km-607+000)	
1.20	If so furnish a joint implementation programmer to lay their respective ducts within stipulated time frame.	NA	
1.21	If crossings of the road involved If Yes it shall only be through trench-less technology	Yes (At KMs 610+350, 620+00, 636+550, 653+00)	
2.	Document/Drawings enclosed with the proposal	YES	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.65m deep x 0.5m wide) Should not be greater than 1.2m in width in multiple ducts.	Yes Standard Size	
2.2	Cross section showing the size of pit and location of cable for HDD method	Drawing Attached	
2.3	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 Attached	
2.4	Methodology for laying of OFC	OT & HDD	
2.4.1	Open trenching method. If yes, Methodology of refilling of trench	Yes, Mythology explain in proposal Ax. 8	
2.4.2	Horizontal Directional Drilling (HDD) Method	Only for crossing	
2.4.3	Laying OFC Through CD Works And Method Of Laying (Whether to be hung outside parapet)	Yes ; Covered in Agreement / Agreement Clause no.2.5	
3.	Draft license Agreement signed by two witnesses	Yes	
4.	Performance Bank Guarantee	Submitted After approval	
4.1	Confirmation of BG has been obtained as per NHAI guidelines	BG shall be submitted as per MoRTH Guidelines	
5	Affidavit/ Undertaking from the Applicant for		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes ; Covered in Agreement Clause no.	



5.2	Renewal of Bank Guarantee	Yes ; Covered in Agreement Clause no.20	
5.3	Confirming all standard condition of NHAI's guideline	Yes ; Covered in Agreement Clause no.38 and undertaking no.6	
5.4	Shifting of OFC as and when required by NHAI	Yes ; Covered in Agreement Clause no.21	
5.5	Shifting due to 6 lanning / widening of NH	Yes ; Covered in undertaking no. 4 & 6	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes ; Covered in undertaking no. 6	
5.7	Traffic movement during laying of OFC to be managed by the applicant	Yes ; Covered in Agreement Clause no. 39 & 40	
5.8	If any claim is raised by the Concessionaries then the same has to be paid by the applicant	Yes ; Covered in Agreement Clause no.43	
5.9	Certificate for 6-lanning from the applicant in following format "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development."	Yes ; Covered in Undertaking no.4	
6.	Power of Attorney in favor of authorized signatory	Yes ; Enclosed	
7.	Copy of DOT license	Yes ; Enclosed	
8.	Certificate from the Project Director		
8.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/17/2000-S&R dated 29.9.2000 and NHAI's guidelines issued vide No. NHAI/OEC/2k/Vol II dated 7.11.2000 and Ministry's Circular No. RW/NH-33044/27/2000-S&R dated 21.3.2006. Ministry's circular No. RW/NH-33044/27/2005-S&R (R) (Pt.) date 06/07.08.2013 & Ministry of Road Transport & Highways letter No. 33044 / 29 / 2015 /S&R(R) dated 22.11.2016.	From NHAI, PIU-Chhindwara	
8.2	Certificate for 4-lanning from PD in the following format.	NA	
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location. (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning".	Seoni to Khawasa Road	
9.	The agreement fee of Rs. 1 shall be charged	Yes	
10.	If NH section proposed to be taken up by NHAI on BOT basis - a clause in para 17 to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay cable/duct has also been granted	NA	



	as a right of way to the concessionaire under the concession agreement for up=gradation of [..... section from Km ----- to km ----- of NMH No.- ----- on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."		
11.	Who will supervise the work of laying of OFC	NHAI	
12.	Who will ensure that the defects in road portion after laying of OFC are corrected and if not corrected then what action will be taken.	JDFPL as per Agreement Clause 17,18 And NHAI as per Agreement clause No.24	
13.	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.	JDFPL	
14.	A Certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa (copy enclosed) issued vide Ministry Circular No. RW/NH/33044/17/2000/S&R dated 23.7.2003. Ministry's circular No. RW/NH-33044/27/2005-S&R (R) (Pt.) date 06/07.08.2013 & Ministry of Road Transport & Highways letter No. 33044 / 29 / 2015 /S&R(R) dated 22.11.2016.	Yes	
15.	If any previous approval is accorded for laying of cable then Photocopy of register of records of permissions accorded as maintained by PD Ministry of Road Transport & Highways letter No. 33044 / 29 / 2015 /S&R(R) dated 22.11.2016. as referred in para 13 above is enclosed or not.	NA	

