



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) **National Highways Authority of India**

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

परियोजना निदेशक का कार्यालय, परियोजना कार्यान्वयन इकाई  
**Office of the Project Director, Project Implementation Unit**

53, बसंत विहार, नौबस्ता, कानपुर - 208021 • 53, Basant Vihar, Naubasta, Kanpur - 208021

दूरभाष / Phone: (0512)2630154/2630214 • ई-मेल / e-mail: knp@nhai.org



13028/NHAI/PIU/KNP/NH-34/OFC/371

Dated: 13 May, 2023

## Invitation of Public Comments

**Sub:** Request for grant of Right of Way permission to lay Optical Fiber Cable along the route from Km. 52.700 to Km. 58.100 on NH-34. Total Section length ROW applied for 5.400 Km. (Sajeti) as per attached drawing in the State of U.P.

The Authorized Signatory M/s Bharti Airtel Ltd., has submitted the proposal for grant of Right of Way permission for laying Optical Fibre Cable along the route from Km. 52.700 to Km. 58.100 on NH-34 in the State of U.P.

2. From the submitted proposal, it is seen that as per checklist, the OFC is proposed in utility corridor within NH ROW. Proposed length is 5.400 Km. on NH-34, along (RHS) of the highway. Width of available ROW is 23-24m approx both side. Left side from centre line towards increasing Chainage/ km direction is 10-12m approx and Right side from center line towards increasing Chainage/ km direction is 10-12m. Laying work will be carried out through Horizontal Directional Drilling (HDD) method for crossing. The existing NH is 2 Lane with paved shoulder.

3. As per the guidelines, issued by the Ministry vide OM No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

**The General Manager cum Regional Officer,  
National Highways Authority of India  
Regional Office, UP-West, Lucknow  
3/248, Vishal Khand, Gomti Nagar  
Lucknow-226 010**

This issues with the approval of RO-West (UP).

Encl: As above.

*Aman Rohilla*  
(Aman Rohilla)  
Project Director

### Copy to:

1. Regional Officer (West)-UP, NHAI, 3/248, Vishal Khand, Gomati Nagar, Lucknow.
2. Web Admin, NHAI, HQ - with a request for uploading on the NHAI website.
3. The Technical Director, NIC, Transport Bhawan, New Delhi - with a request for uploading on Ministry's website.
4. The Authorized Signatory M/s Bharti Airtel Ltd., TCG-7/7, Vibhuti Khand, Gomati Nagar, Lucknow for information.



## 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.**

### Relavant Circulars

1. Ministry Circular No. RW/NH-33044/29/2015/S&R(R) Dated-22/11/2016.

### 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	Bharti Airtel Limited, TCG 7/7, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh-226010	
1.2	National Highway Number	NH-34	
1.3	State	UTTAR PRADESH	
1.4	Location	SAJETI	
1.5	(Chain age in km)	Km 52.700 to Km 58.100	
1.6	Length in Meters	5.400 Km	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chain age/km direction	10-12	
	(b) Right side from center line towards increasing chain age/km direction	10-12	
1.8	Proposal to lay the cable		
	(a) Left side from center line towards increasing chain age/km direction		
	(b) Right side from center line towards increasing chain age/km direction	Extreme edge of Road	
1.9	Proposal to acquire land	NA	
	(a) Left side from center line	NA	



	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the cable		
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of lanes (1/4 / 6/8 lanes) existing	2 lane	
1.13	Proposed Number of lanes (2 lane with paved shoulder/4/6/8 lanes)	2 lane	
1.14	Service road existing or not	NO	
	If yes then which side		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.15	Proposed Service Road	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay cable is after the service road or between the service road and main carriageway	At the edge of ROW	
1.17	The permission for laying OFC shall be considered for approval/rejection		
	(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 2m width, duly keeping in view the future widening.	NA	
	(ii) Where land is yet to be acquired for 4 lane 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	NA	



*[Handwritten signature]*



	corridor at the edge of existing ROW, duly keeping in view the possible widening plans		
	(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 cannot be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused.	NA	
1.18	No. of applicants on the same stretch	1	
1.19	Whether the case of multiple licenses	1	
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 through trenchless technology	
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	
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes	
2.3	Strip plan/Route Plan showing the OFC, Chain age, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of OFC		
2.4.1	Open trenching method. If yes, Methodology of refilling of trench	No	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying OFC through CD works and method of laying (Whether to be hung outside parapet)	Yes if required	
3.	Draft license Agreement signed by two witnesses	Yes	
4.	Performance Bank Guarantee		



*[Handwritten signature]*

4.2	Confirmation of BG has been obtained as per NHAI guidelines	BF shall be submitted as per NHAI Guidelines	
5	<b>Affidavit/Undertaking from the Applicant for</b>		
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 guideline	Yes	
5.4	Shifting of OFC as and when required by NHAI	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 OFC to be managed by the applicant.	Yes	
5.8	If any claim is raised by the Concessionaries then the	Yes	
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-lane or any other development."	Yes	
6.	Power of Attorney in favor of authorized signatory	Yes	
7.	Copy of DOT license	Yes	
8.	Certificate from the Project Director	NA	
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.	NA	
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-lane based on the feasibility report considering proposed structures at the said location.	NA	



	(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-lane".		
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 Ben granted 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."	NA	
11.	Who will supervise the work of laying of OFC.	<b>Bharti Airtel Limited</b>	
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.	NHAI	
13.	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.	<b>Bhari Airtel Limited</b>	
14.	A Certificate from PD that he will enter the proposed permission in the register of the permissions in the prescribed Performa (copy enclosed) issued vide Ministry Circular No. RW/NH/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 accoded as maintained by PD (as per Ministry Circular No. RW/NH/33044/29/2015/S&R (R) dated 22.11.2016) as referred in para 13 above is enclosed or not.	Yes	

For Bharti Airtel Limited

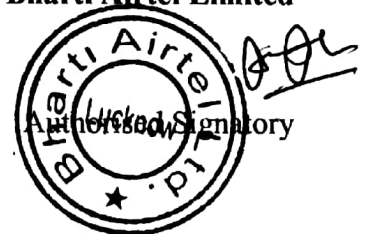


Diagram illustrating the cross-section of a trench for a casing pipe, showing the following components and dimensions:

- TOP OF THE ROAD**: The surface above the trench.
- TOP OF SUBGRADE**: The level of the subgrade below the road surface.
- 1.20 M (MIN.)**: The minimum depth of the trench from the top of the subgrade to the top of the casing pipe.
- OVER FILL (GARNULAR MATERIAL IN LAYERS NOT GREATER THAN 15CM IN EACH LAYER)**: The material above the trench.
- 15 to 30 CM**: The thickness of the side fill layers.
- SIDE FILL**: The material filling the sides of the trench.
- BED FILL**: The material filling the bottom of the trench.
- CASING PIPE**: The central pipe being installed.
- 15 to 30 CM**: The thickness of the bed fill layer.
- 30 CM**: The width of the trench at the bottom.
- (GARNULAR MATERIAL FREE FROM LUMPS, COLDS AND CABBLES)**: A note indicating the quality of the granular material used for the side and bed fill.



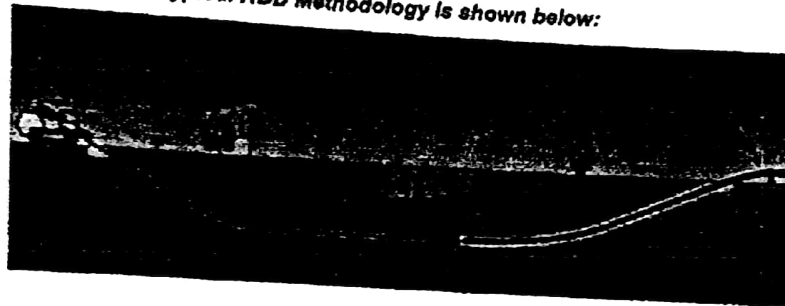


## Methodology of Laying of OFC - Horizontal Directional Drilling (HDD)

### Trenchless Crossing: HDD Method

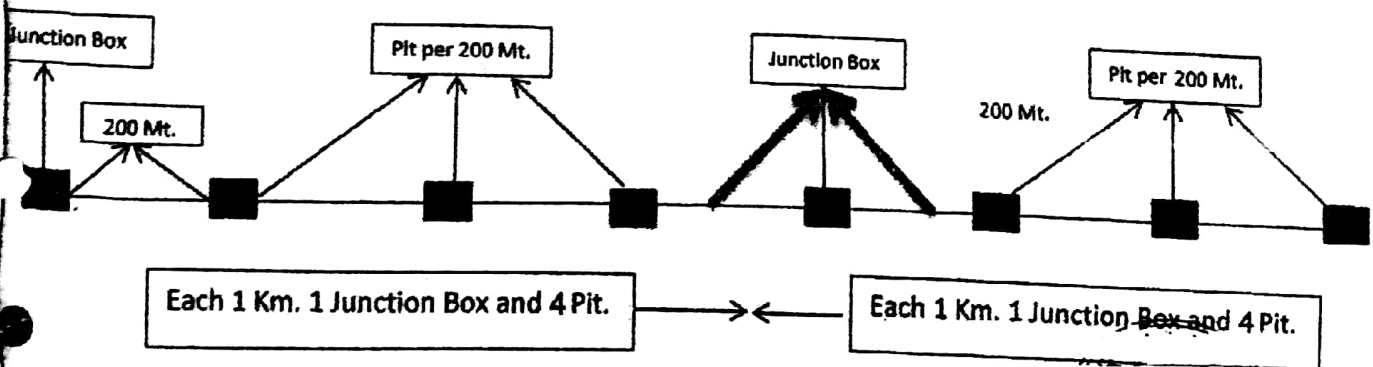
Horizontal Directional Drilling (HDD) is a technique for installing product pipes, including utility lines, below ground using a surface-mounted drill rig that launches and places a drill string at a shallow angle to the surface and has tracking and steering capabilities. In recent years HDD has been the preferred methodology due to several government policies conducive to infrastructure growth. The dimension of the trench will be 100 Mm in width.

*A Typical HDD Methodology is shown below:*

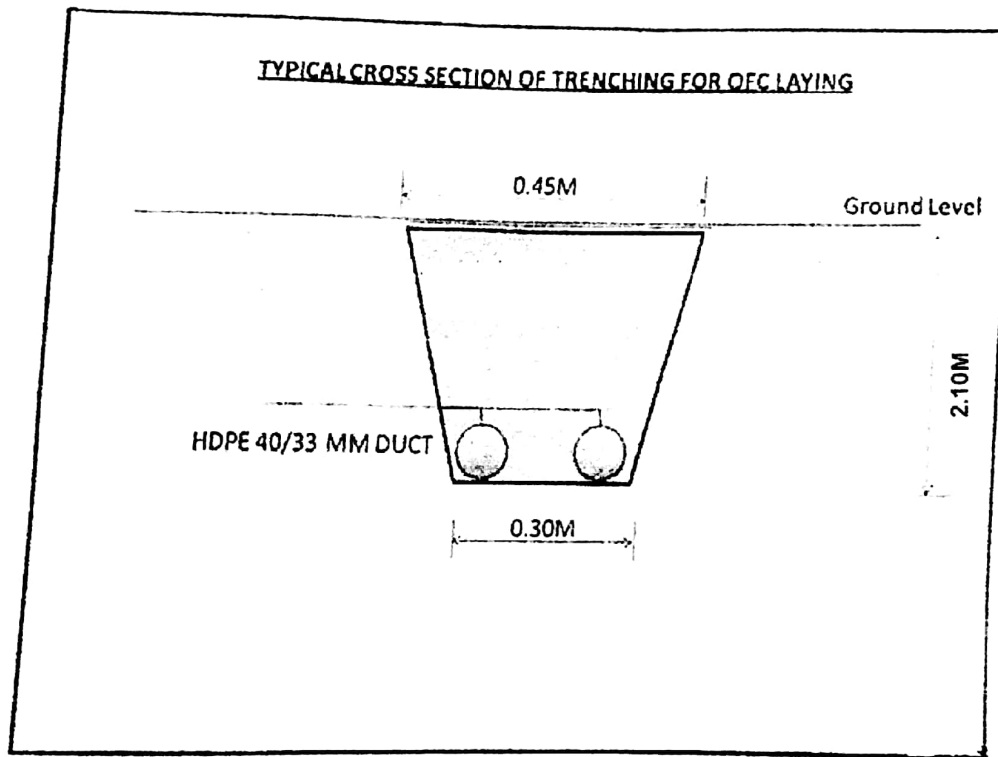


*A Typical dimensioning of pits and Junction Box on the Route length is shown below:*

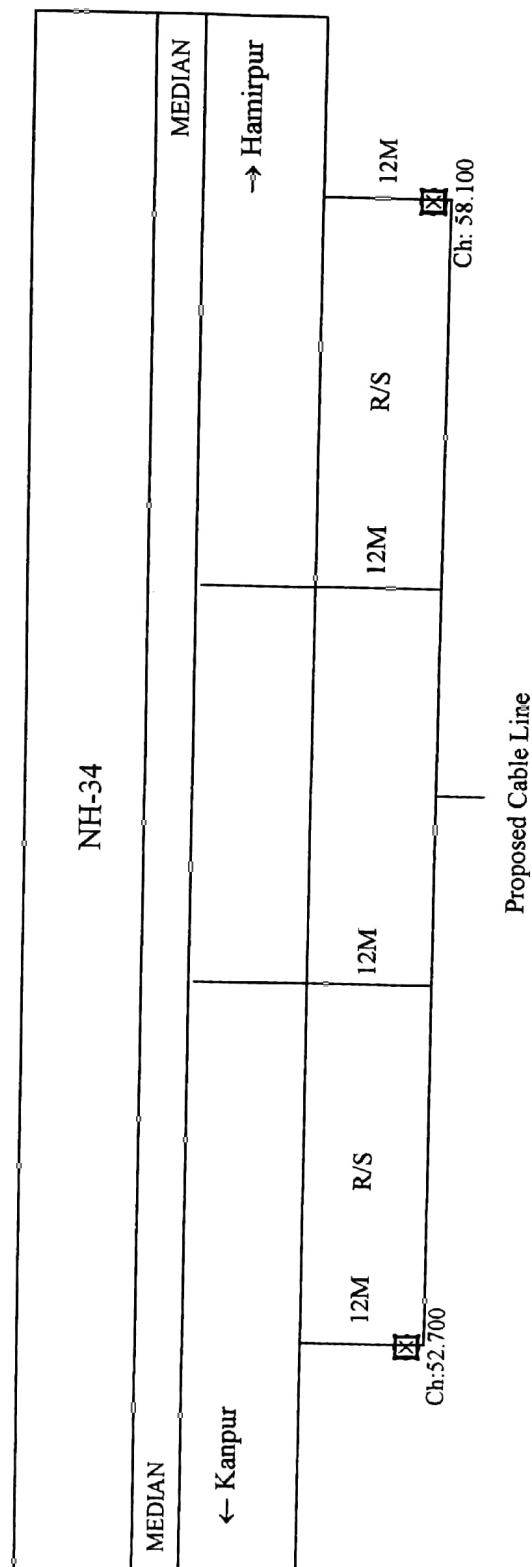
*Pit Size is 1mt X 1 Mt and Junction Box is also of same dimension.*







**Route Name : Kanpur-Hamirpur**  
**Location : Ch. 52.700 to Ch. 58.100**  
**Route Length : 5.400 KM.**



Km 52.700 to Km. 58.100 on NH-34 Section  
 Length ROW applied for 5.400 Km in state of  
 Uttar Pradesh along LHS.

**For Bharti Airtel Limited**

