



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

**National Highways Authority of India**  
(Ministry of Road Transport & Highways)

क्षेत्रीय कार्यालय, ओडिशा /Regional Office, Odisha

301 - ए, तीसरी मंजिल, पाल हाईट्स, प्लॉट नं जे/7, जयदेव विहार  
भुवनेश्वर - 751013, ओडिशा

301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar  
Bhubaneswar- 751013, Odisha

NHAI/13011/54//RO/OD/ 428 /2020

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ई-मेल /e-mail : roodisha@nhai.org

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25.02.2020

To

The Sr. Technical Director,  
NIC Centre at MoRTH,  
Transport Bhawan,  
New Delhi 110001

**Sub:** Rehabilitation and up-gradation to 4-laning of Angul- Sambalpur section of NH-55 (Km.112.000- Km.265.000) in the State of Odisha under EPC mode- RoW permission for laying Optical Fibre Cable by HDD / Manual Trench from Km.112.000 to Km.149.600 total route length 37.600 Km in LHS -Reg

Sir,

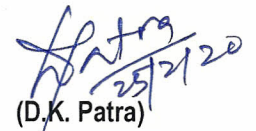
Please find enclosed herewith a proposal of M/s Bharti Airtel Ltd for RoW permission for laying Optical Fibre Cable (OFC) by HDD/Manual Trench from Km.112.000 to Km.149.600 total route length 37.600 Km in LHS along NH-55. The details areas under:

SI No.	Description	NH No.	Chainage	Dia of HDPE Pipe (in mm)	RHS/LHS
1.	Along the road	55	Km.112+000 to Km.149+600 (Excluding Major / Minor bridges & Forest Stretches)	40 (2nos)	LHS

2. Accordingly, as per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016, the application along with the recommendations of concerned PD/Consultants are enclosed herewith with request to hoist the same in the Ministry's Website for public comments within 30 days of uploading on the website.

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswa.

Yours faithfully,

  
(D.K. Patra)

Manager (Tech)



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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भारतमाला  
प्रगति के पथ पर अग्रसर

BHARATMALA  
ROAD TO PROSPERITY

## INVITATION OF PUBLIC COMMENTS

**Sub:** Rehabilitation and up-gradation to 4-laning of Angul- Sambalpur section of NH-55 (Km.112.000- Km.265.000) in the State of Odisha under EPC mode- RoW permission for laying Optical Fibre Cable by HDD / Manual Trench from Km.112.000 to Km.149.600 total route length 37.600 Km in LHS -Reg

M/s Bharti Airtel Ltd has submitted a proposal for RoW permission to lay Optical Fibre Cable (OFC) by HDD/Manual Trench from Km.112.000 to Km.149.600 total route length 37.600 Km in LHS along NH-55. The details areas under:

Sl No.	Description	NH No.	Chainage	Dia of HDPE Pipe (in mm)	RHS/LHS
1.	Along the road	55	Km.112+000 to Km.149+600 (Excluding Major / Minor bridges & Forest Stretches)	40 (2nos)	LHS

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

3. In view of the above, the comments of public, if any, on the above mentioned proposal is invited on below mentioned address:

The Regional Officer,  
National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
J/7, Jayadev Vihar, Bhubaneswar 751013, Odisha  
e-mail : roodisha@nhai.org

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar".

Manager (Tech)

National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
J/7, Jayadev Vihar, Bhubaneswar 751013



### Check List

Check list for getting approval for laying optical fiber cable on NHAI land.

Sl No.	Item	Information / Status	Remarks
<b>1</b>	<b>General information</b>		
1.1	Name and Address of the Applicant	M/S Bharti Airtel Limited, <b>Registered office :</b> Bharti Crescent, 1, Nelson Mandela Road, Vasant Kunj, Phase II, New Delhi-110 070, India. <b>Branch Office :</b> Plot no-E 13/1, Basement floor, infocity, Chandaka indl Estate, Chandrasekhrpur, Patia, Bhubaneswar Khurdha, Orissa-751024	
1.2	National Highway Number	NH-55 (Sambalpur - Cuttack - Highway)	
1.3	State	Odisha	
1.4	Location	From Rantalei to Boinda (LHS)	
1.5	Chainage in Km	Angul - Sambalpur Section M/S.Gayatri-PTPS Ltd. From Km 112.000 to Km 149.600.	
1.6	Length in Meters	37600 Mtr.	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage / Km direction	From Km 112.000 to Km 149.600.=37600 Mtr. Available ROW from centre line 30 Mtr.	
	(b) Right side center from line towards increasing chainage / Km direction	N.A	
1.8	Proposal to lay the OFC Cable Line	Along the NH	
	(a) Left side from center line towards increasing chainage / Km direction	From Km 112.000 to Km 149.600. =37600 Mtr. ( To lay cable within the utility corridor , at the extreme end of the ROW)	
	(b) Right side from center from line towards increasing chainage / Km direction	N.A	
1.9	Proposal to accuire land	NA, Because Land Already Acquired by NHAI	
	(a) Left side from center line	N.A	
	(b) Right side from center line	N.A	
1.10	Whether proposal is in the same side where land is not to be acquired.	N.A	
1.11	Details of already laid services, if any, along the proposed route	Nil	
1.12	Number of lanes (2/4/6/8 lane) existing	2 Lanes	
1.13	Purposed number of lanes (2 lanes with paved shoulders/4/6/8 lanes)	4 Lanes	
1.14	Service road existing or not	No	
	If yes then which side		
	(a) Left side from center line	N.A	
	(b) Right side from center line	N.A	
1.15	Proposed Service road	No	
	(a) Left side from center line	N.A	
	(b) Right side from center line	N.A	
1.16	Whether proposal to lay OFC Cable line is after service road or between the service road and main carriageway	After Service road at ROW	
1.17	The permission for laying of OFC Cable line shall be considered for approval / rejection based on the Ministry Circulars as above.		
	(a) Carrying of sewage/gas pipelines 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 than leakage of Water.	Agreed	
	(b) Carrying of pipe lines on bridges shall also be discouraged. However, if the water supply authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized, they may be permitted to carry the pipeline on independent superstructure, support on extended portions of piers and abutments in such a manner that in the final arrangement enough free space around the superstructure of the bridge remains available.	Agreed	

For Bharti Airtel Limited  
Odisha Telecom Circle

परियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
National Highways Authority of India  
प.का.ई., सम्बलपुर, उडिशा/PIU, Sambalpur, Odisha



**Check List**

	(c) Cost of required extension of the substructure as well as that of the supporting superstructure shall be borne by the agency-in-charge of the utilities.	Agreed	
	(d) Service are not being allowed indiscriminately on the parapet/any part of the bridges, Safety of the bridges has to be kept in view while permitting various services along bridge. Approvals are to be accorded in this regard with the concurrence of the Ministry's Project Chief Engineers only.	Agreed	
1.18	If crossings of the the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line.		
	(a) Existing drainage structures shall not be allowed to carry the lines.	Agreed	
	(b) Is it on a line normal to NH	Yes	
	(C) Crossing shall not be too near the existing structure on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures.	Agreed	
	(d) The casing pipe (or conduit pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable.	Agreed	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Agreed	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	Agreed	
	(g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts.	Agreed	
	(h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Agreed	
	(i) The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	Agreed	
2.0	<b>Document / Drawings enclosed with the proposal</b>	Yes	
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2m deep x 0.3 m wide)	Yes	
	(i) should not be greater than 60 Cm wider than the outer diameter of the pipe	Yes	
	(ii) located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway	Yes	
	(iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges	Yes	
	(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.	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 Cable line chainage, width of ROW, distance of proposed pipeline from the edge of ROW, important mile stone, intersection, cross drainage works etc.	Yes	
2.4	Methodology for laying OFC Cable line.	Yes	
2.4.1	Open trenching method, (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, Methodology of refilling of trench	Yes	
	(a) The trench width should be at least 30 cm, but not more than 60 com 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 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 edged should be excavated and replaced by selected material.	Yes	

**Authorized Signatory**

For Bharati Airtel Limited

Odisha T & Com Corpn

**Project Director**

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग

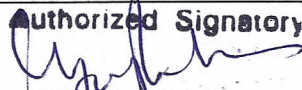
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**Check List**

	(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	Yes	
	(d) The sidefill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be	Yes	
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Yes	
	(f) The excavation shall be protected by flagman, sign and barricades, and red lights during night hours.	Yes	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	Yes	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying OFC Cable line through CD works and method of laying (whether to be hung outside parapet)	No	
3	<b>Draft license Agreement signed by two witnesses.</b>	Yes	
4.0	<b>Performance Bank Guarantee</b>		
4.1	Performance BG as per Ministry Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016 to be obtained at Rs. 100/- per meter length ( $\leq$ 300 mm dia/width Rs. 100/- per meter).	<p>License fees calculating as per below : (Utilized NH land area X Prevailing Circle Rate of land per unit area) / (10 X 12) X total Month of Permission )</p> <p>Our Occupying land : From Km 112.000 to Km 149.600 = 37600 X 0.100 = 3760 Sqm = 0.929 Acre</p> <p>The license Fees : From Km 112.000 to Km 149.600 ( 0.929 Acre X 1,00,00,000/-) / (10 X 12) X 60 = 46,45,000/- (Rupees forty six lakh forty five thousand only).</p> <p>So the total license fees : 46,45,000/- (Rupees forty six lakh forty five thousand only).</p> <p>BG calculating as per below : <math>\leq</math> 300 mm dia/width Rs. 100 /- BG value for the said work is 37600 Mtr. X 100/- = 37,60,000/- (Rupees thirty seven lakh sixty thousands only)</p>	At the time of Agreement it will be submit.
4.2	Conformation of BG has been obtained as per NHAI guidelines	To be Submit	
5	<b>Affidavit / Undertaking form the Applicant for</b>		
5.1	Not to damage to other utility, if damaged then to pay losses either to NHAI or to the concerned agency	Undertaking attached along the application	
5.2	Renewal of Bank Gurantee	Undertaking attached along the application	
5.3	Conforming all standard condition of NHAI's guideline	Undertaking attached along the application	
5.4	Shifting of OFC Cable line when required by NHAI at their own cost.	Undertaking attached along the application	
5.5	Shifting due to 6 lanning / widening of NH	Undertaking attached along the application	
5.6	Indemnity against all damages and claims clasuse (xxiv)	Undertaking attached along the application	
5.7	Traffic movement during laying of OFC Cable line to be managed by the applicant	Undertaking attached along the application	
5.8	If any claims is raised by the Concessionaire then the same has to be paid by the applicant	Undertaking attached along the application	

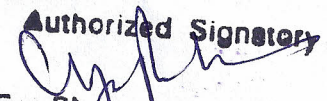
**Authorized Signatory**  
  
**For Pharti Airtel Limited**  
 Corporate Office, Bhubaneswar

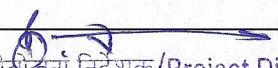
**परियोजना निर्देशक/Project Director**  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग  
**National Highways Authority of India**  
 ई.आई. सम्बलपुर, उडिशा/PIU, Sambalpur Odisha



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5.9	Prior approval of the NHAI shall be obtained before undrtyaking any work of installation, shifting or repairs, or alteration to the showing OFC Cable line located in the National Highway right-of-	Undertaking attached along the application	
5.10	Expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the OFC Cable line will be borne by the agency owing	Undertaking attached along the application	
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Undertaking attached along the application	
5.12	Certificate from the applicant in the following format. (i) Laying of OFC pipe line will not have any deleterious effect of any of the bridge components and roadway safety for traffic. (ii) for 6-lanning "We do under take that, We will relocate service road /approach road utilities at my own cost not withstanding permission granted within such time as will be stipulated by NHAI" for further six-laning or any other development".	Certificate attached along the application.	
6	<b>Who will sign the agreement on behalf of OFC Cable line agency.</b>	Authorized Signatory, BHARTI AIRTEL LIMITED.	
7	<b>Certificate from the Project Director</b>		
7.1	Certificate for conforming of all standard condition issued vide Ministry circular No. NH-41(58)/68 dated 31.01.1969, Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982, Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.07.1993, Ministry Circular No. RW/NH-11037/1/86/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.	Yes	
7.2	Certificate from PD in the following format (i) "It is certified that any other location of the OFC Cable line would be extremely difficult and unreasonable costly and the installation of OFC Cable line within 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". (ii) For 6-lanning (a) Where Feasibility is availabel "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structure at the said location". (b) In case feasibility report is not available " I do certify that sufficient ROW is available at site for accommodating proposed Six-lanning"	Yes	
8	If NH section proposed to be taken up by NHAI on BOT basis- a clause to be inserted in the aggrement. "The permitted Highway on which Licensee has been granted the right to lay cable/duct has also been granted as a right of way to the concessionaire under the consession aggrement for up-gradation of [ ] section from Km [ ] to Km [ ] of NH No. [ ] on Build. Operate and transfer Basis] and thereof, the licensee shall honour the same".	N.A	
9	Who will supervise the work of laying of OFC Cable line.	BHARTI AIRTEL LIMITED	
10	Who will ensure that the defects in road portion after laying of OFC Cable line are corrected and if not corrected then what action will be taken.	BHARTI AIRTEL LIMITED	
11	Who will pay the claims for damages done / disruption in working of Concessionaire if asked by the Concessionaire.	BHARTI AIRTEL LIMITED	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permission in the precribed proforma (copy enclosed)	Yes	
13	If any previous approval is accorded for laying of OFC Cable line then photocopy of register of records of the permission accorded as maintained by PD then copy be enclosed.	Nil	

**Authorized Signatory**  
  
**For Bharti Airtel Limited**  
**Odisha Telecom Circle**

  
**परियोजना निदेशक/Project Director**  
**भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग**  
**National Highways Authority of India**  
**ए.आई. सम्बलपुर, उडिशा/PIU, Sambalpur, Odisha**