



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 हाइट्स, प्लॉट नं जे/7, जयदेव विहार
भुवनेश्वर - 751013, ओडिशा
301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar
Bhubaneswar- 751013, Odisha

दूरभाष/Tel. : +91-674-2361570/670
फैक्स/Fax : +91-674-2361770
ई-मेल /e-mail : roodisha@nhai.org
ronhaodisha@gmail.com
वेबसाइट/Website : http://www.nhai.org

17.03.2020

NHAI/13011/54//RO/OD/ 610 /2020

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.149+600 to Km.165+500 (Length of 15+900 Km in LHS) & Km.179+400 to Km.224+600 (Length 45+200 Km in LHS) total route length (15+900+45+200) 61+100 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.149+600 to Km.165+500 (Length of 15+900 Km in LHS) & Km.179+400 to Km.224+600 (Length 45+200 Km in LHS) total route length (15+900+45+200) 61+100 Km. in LHS. The details areas under:

Sl No.	Description	NH No.	Chainage	Dia of HDPE Pipe (in mm)	RHS/LHS
1.	Along the road	55	Km.149+600 to Km.165+500 (i.e. 15+900 Km) & Km.179+400 to Km.224+600 (i.e. 45+200 Km) (Excluding Major / Minor bridges, Flyover, Animal Underpasses & Forest Stretches as indicated in annexure - 1 & 2)	40 (2nos)	LHS

- 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).
- 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



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 हाइट्स, प्लॉट नं जे/7, जयदेव विहार

भुवनेश्वर - 751013, ओडिशा

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

दूरभाष/Tel. : +91-674-2361570/670

फैक्स/Fax : +91-674-2361770

ई-मेल /e-mail : roodisha@nhai.org

ronhaiodisha@gmail.com

वेबसाइट/Website : http://www.nhai.org

17.03.2020

NHAI/13011/54//RO/OD/ 611 /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.149+600 to Km.165+500 (Length of 15+900 Km in LHS) & Km.179+400 to Km.224+600 (Length 45+200 Km in LHS) total route length (15+900+45+200) 61+100 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.149+600 to Km.165+500 (Length of 15+900 Km in LHS) & Km.179+400 to Km.224+600 (Length 45+200 Km in LHS) total route length (15+900+45+200) 61+100 Km. in LHS. The details areas under:

Sl No.	Description	NH No.	Chainage	Dia of HDPE Pipe (in mm)	RHS/LHS
1.	Along the road	55	Km.149+600 to Km.165+500 (i.e. 15+900 Km) & Km.179+400 to Km.224+600 (i.e. 45+200 Km) (Excluding Major / Minor bridges, Flyover, Animal Underpasses & Forest Stretches as indicated in annexure - 1 & 2)	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)

Check List

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

Sl No.	Item	Information / Status	Remarks
1	General information		
1.1	Name and Address of the Applicant	M/S Bharti Airtel Limited, Registered office : Bharti Crescent, 1, Nelson Mandela Road, Vasant Kunj, Phase II, New Delhi-110 070, India. Branch Office : Plot no-E 13/1, Basement floor, Infocity, Chandaka Indl Estate, Chandrasekhpur, Patia, Bhubaneswar Khurda, Orissa-751024	
1.2	National Highway Number	NH-55 (Sambalpur - Cuttack - Highway)	
1.3	State	Odisha	
1.4	Location	From Boinda to Nakchi More(LHS) & From Bamur Bus Stop More to Mochibahal(LHS)	
1.5	Chainage in Km	Angul - Sambalpur Section M/S. Gayatri-PTPS Ltd. i) From Km 149.60 to Km 165.50. ii) From Km 179.40 to Km 224.60.	
1.6	Length in Meters	61100 Mtr. i) From Km 149.60 to Km 165.50 =15900 Mtr. ii) From Km 179.40 to Km 224.60 =45200 Mtr.	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage / Km direction	i) From Km 149.60 to Km 165.50 =15900 Mtr. ii) From Km 179.40 to Km 224.60 =45200 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	i) From Km 149.60 to Km 165.50 =15900 Mtr. ii) From Km 179.40 to Km 224.60 =45200 Mtr. (To lay cable within the utility corridor , at the edge of 2Mtr. as the ROW is Variable)	
	(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 Serevice 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 spade around the superstructure of the bridge remains available for inspection and repairs, etc.	Agreed	

Authorized Signatory


M/S Bharti Airtel Limited
Odisha Telecom Circle

परियोजना निदेशक/Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
प्लॉट नं. ३, समरपुर, उडुपी/PHO, Sambalpur, Odisha

Bhaskar Pathwaik
S:Te. En, PHO-Sambalpur

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	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 1.2m 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 Bhabesh Airtel Limited
 NTPC Telecom Circ

परियोजना निदेशक/Project Director
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग
 National Highways Authority of India
 प.क.०.ई, सम्बलपुर, ओडिशा/PIU, Sambalpur, Odisha

Bhabesh Pattanah
 Site Es., PSU-Sambalpur

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 crust.	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 permitted.	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	Draft license Agreement signed by two witnesses.	Yes	
4.0	Performance Bank Guarantee		
4.1	Performance Bank Guarantee as per ministry's circular No.-RW/NH-33044/29/2015 S&R * dated 22.11.2016 to be obtained at Rs. 100/ per meter length. (<= 300 mm dia/width Rs. 100/ per meter)	<p>License fees calculating as per below :</p> <p>(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 149.60 to Km 165.50= 15900 X 0.100 = 1590 Sqm = 0.392 Acre</p> <p>Our Occupying land : From Km 179.40 to Km 224.60= 45200 X 0.100 = 4520 Sqm = 1.116 Acre</p> <p>The license Fees :</p> <p>From Km 149.60 to Km 165.50 (0.392 Acre X 1,00,00,000/-) / (10 X 12) X 60 =19,59,999.60 /- (Rupees nineteen lakh fifty nine thousand nine hundred ninety nine & sixty paise only).</p> <p>From Km 179.40 to Km 224.60 (1.116 Acre X 90,00,000/-) / (10 X 12) X 60 =50,22,000.00 /- (Rupees fifty lakh twenty two thousand only).</p> <p>So the total license fees : 19,59,999.60 + 50,22,000.00 = 69,81,999.60 /- (Rupees sixty nine lakh eighty one thousand nine hundred ninety nine & sixty paise only.)</p> <p>BG calculating as per below :</p> <p><= 300 mm dia/width Rs. 100 /-</p> <p>BG value for the said work is 61100 Mtr. X 100/- = 61,10,000/- (Rupees sixty one lakh ten 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	Affidavit / Undertaking form the Applicant for		
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	
5.9	Prior approval of the NHAI shall be obtained before undrtaking 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	

Authorized Signatory

For Bharat Airtel Limited
Odisha Telecom Circle

परियोजना निदेशक
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण विभाग
 National Highways Authority of India
 प.का.ड, संबलपुर, उडिसा/PIU, Sambalpur, Odisha

Bhakesh Pattwaile
 Site Es., PIU-Sambalpur

Check List

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 owning	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-lanning or any other development".	Certificate attached along the application.	
6	Who will sign the agreement on behalf of OFC Cable line agency.	Authorized Signatory, BHARTI AIRTEL LIMITED.	
7	Certificate from the Project Director		
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 available "I do certify that there will be no hindrance to proposed six-lanning 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 agreement. "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 concession agreement 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 prescribed 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	

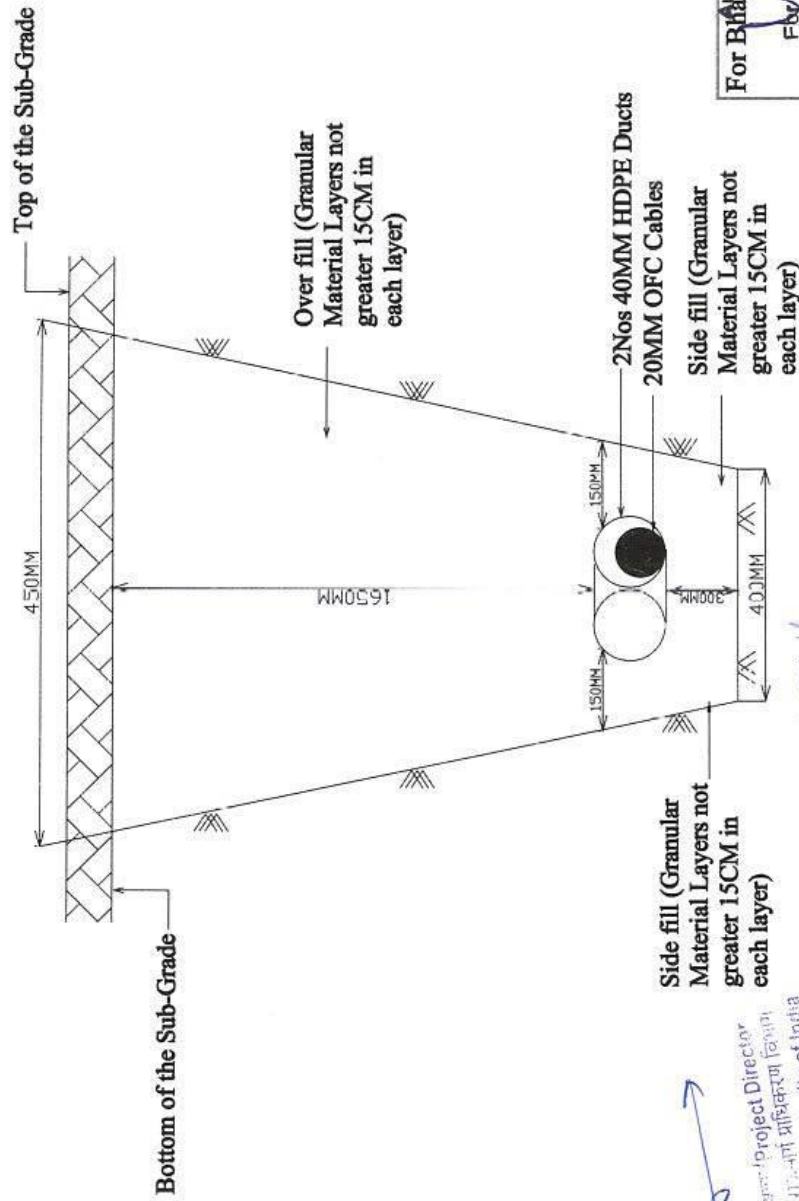
Authorized Signatory

For Bharti Airtel Limited
Odisha Telecom Circle

परियोजना निर्देशक/Project Director
भारतव्य राष्ट्रीय राजमार्ग प्राधिकरण विभाग
National Highways Authority of India
प.क.ई., सम्बलपुर, उडिसा/PIU, Sambalpur, Odisha

Bharat Pathak
Site Eng. PUVSambpur

Installation of HDPE ducts along the road.



For Bharti Airtel Limited
 For Bharti Airtel Limited
 Odisha Telecom Circle
 Authorised Signatory

Project Director
 Bharti Airtel Limited
 National Highway, Sambalpur, Odisha

Bluebird Pathank
 Site Eng. PEV-Sambalpur

Annexure-1			
NH-55 CH-149.6 to CH.165.5 & CH-179.4 to CH.224.6 STRUCTURE DETAILS IN LHS			
Sl No.	Chainage as per Schedule-B	Design Chainage	Type of Structure
1	151+718	151+656	MNB
2	155+130	155+066	MNB
3	159+850	159+778	MNB
4	163+500	163+547	MNB
5	165+187	165+123	MNB
6	179+459		MNB
7	179+600	179+676	Flyover
8	183+064	182+964	MNB
9	184+114	184+114	AUP
10	184+832	184+726	MNB
11	187+310	187+199	MNB
12	188+278	188+166	MNB
13	190+838		MNB
14	193+059	192+937	MNB
15	194+595	194+595	AUP
16	196+723		MNB
17	199+150		Flyover
18	199+348		MJB
19	202+033	202+033	AUP
20	206+935	206+993	MNB
21	210+382	210+456	MNB
22	211+458	211+458	AUP
23	212+313	212+369	MNB
24	213+122	213+122	AUP
25	213+857		MNB
26	217+347	217+357	MNB
27	221+018		MNB
28	221+320	221+320	AUP

Upa P. K.

*Bhakesh Pattiwale
Site Engr, PDU-Samsatpur.*

Annexure - 2

ANGUL TO SAMBALPUR SECTION, NH-55						
Forest Area Location Details(CH.149.6 to CH.165.5 & CH.179.4 to CH.224.6)						
SL.NO:	CHAINAGE		LENGTH (m)	SIDE	VILLAGE	REMARKS
	FROM	TO				
1	150+290	150+362	72	LHS	Anandamunda	Revenue Forest
2	150+400	150+449	49	LHS	Anandamunda	Revenue Forest
3	150+469	150+533	64	LHS	Anandamunda	Revenue Forest
4	154+907	155+063	156	LHS	GUNDURIMUNDA	Revenue Forest
5	163+212	163+227	15	LHS	Ranibhuni	Revenue Forest
6	163+316	163+470	154	LHS	Ranibhuni	Revenue Forest
7	163+552	163+573	21	LHS	Ranibhuni	Revenue Forest
8	163+610	163+658	48	LHS	Ranibhuni	Revenue Forest
9	164+442	164+532	90	LHS	Nakchi	Revenue Forest
10	182+075	182+400	325	LHS	Dakumamunda	Revenue Forest
11	182+541	182+555	14	LHS	Dakumamunda	Revenue Forest
12	182+667	182+790	123	LHS	Dakumamunda	Revenue Forest
13	182+927	182+967	40	LHS	Harirajpur	Revenue Forest
14	183+238	183+265	27	LHS	Phasipal	Revenue Forest
15	183+471	183+515	44	LHS	Phasipal	Revenue Forest
16	183+765	184+188	423	LHS	Barkhol	Revenue Forest
17	184+300	184+365	65	LHS	Barkhol	Revenue Forest
18	184+382	184+453	71	LHS	Barkhol	Revenue Forest
19	184+453	184+513	60	LHS	Kutasinga	Revenue Forest
20	184+786	184+800	14	LHS	Kutasinga	Revenue Forest
21	184+982	185+063	81	LHS	Kutasinga	Revenue Forest
22	188+315	188+513	198	LHS	Betagarh	Revenue Forest
23	188+513	189+050	537	LHS	Betagarh	Revenue Forest
24	189+255	189+420	165	LHS	Betagarh	Revenue Forest
25	189+800	190+030	230	LHS	Betagarh	Revenue Forest
26	190+190	190+210	20	LHS	Betagarh	Revenue Forest
27	190+658	190+731	73	LHS	Betagarh	Revenue Forest
28	190+731	190+846	115	LHS	Betagarh	Revenue Forest
29	192+132	192+214	82	LHS	Nayapali	Revenue Forest
30	192+480	192+825	345	LHS	Nayapali	Revenue Forest
31	193+083	193+215	132	LHS	Nayapali	Revenue Forest
32	193+215	193+336	121	LHS	Nayapali	Revenue Forest
33	193+400	193+453	53	LHS	Nayapali	Revenue Forest
34	193+453	193+460	07	LHS	Nayapali	Revenue Forest
35	193+752	194+300	548	LHS	Nayapali	Revenue Forest
36	194+660	195+035	375	LHS	Jadumanipatna	Revenue Forest
37	195+000	195+745	745	LHS	DALKHAMAN	Revenue Forest
38	195+745	196+500	755	LHS	DALKHAMAN	Revenue Forest
39	196+500	196+700	200	LHS	DALKHAMAN	Revenue Forest
40	196+750	196+760	10	LHS	DALKHAMAN	Revenue Forest
41	203+170	203+267	97	LHS	Barsikiyakhhol	Revenue Forest
42	204+308	204+373	65	LHS	Barsikiyakhhol	Revenue Forest
43	204+373	204+475	102	LHS	Barsikiyakhhol	Revenue Forest
44	205+935	206+031	96	LHS	Bhaluchundak	Revenue Forest
45	207+463	208+047	584	LHS	Badahindol	Revenue Forest
46	208+118	208+530	412	LHS	Badahindol	Revenue Forest
47	209+132	210+400	1268	LHS	Badahindol	Revenue Forest
48	210+700	212+000	1300	LHS	Charmal	Revenue Forest
49	212+000	212+580	580	LHS	Charmal	Revenue Forest
50	212+580	213+478	898	LHS	Charmal	Revenue Forest
51	213+700	213+870	170	LHS	Charmal	Revenue Forest
52	213+927	214+173	246	LHS	Charmal	Revenue Forest
53	216+100	216+380	280	LHS	Charmal	Revenue Forest
54	216+380	217+000	620	LHS	Charmal	Revenue Forest
55	217+780	217+870	90	LHS	Charmal	Revenue Forest
56	217+900	218+062	162	LHS	Charmal	Revenue Forest
57	218+100	218+500	400	LHS	Charmal	Revenue Forest
58	218+500	218+855	355	LHS	Charmal	Revenue Forest
59	218+855	219+250	395	LHS	Ambadar	Revenue Forest
60	219+250	219+450	200	LHS	Ambadar	Revenue Forest
61	219+769	219+900	131	LHS	Ambadar	Revenue Forest
62	220+083	220+220	137	LHS	Ambadar	Revenue Forest
63	220+541	220+955	414	LHS	Ambadar	Revenue Forest
64	221+083	221+150	67	LHS	Ambadar	Revenue Forest
65	221+150	221+622	472	LHS	Lamba Kheta	Revenue Forest
66	222+110	222+165	55	LHS	Muchi Bahala	Revenue Forest
67	222+275	222+915	640	LHS	Muchi Bahala	Revenue Forest
68	223+055	223+570	515	LHS	Muchi Bahala	Revenue Forest
69	223+570	223+875	305	LHS	Muchi Bahala	Revenue Forest
70	224+450	224+661	211	LHS	Muchi Bahala	Revenue Forest
Total Length			17934			

Upankh

*Bhabesh Pattanaik
Site En., P.U.-Sambalpur, m.*