



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
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NHA/13011/54/RO/OD/ 1768 /2021

07.07.2021

To

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

Sub: Rehabilitation and Upgradation to Four Laning of Bahargora to Singhara Section (Km. 199.200 to Km. 310.806) of NH - 6 (Length - 111.606 Km) in the State of Odisha under NHDP Phase - IV, on EPC Mode – Application for seeking permission for laying of 250 mm dia HDPE pipe for irrigation water supply across NH-49 at Km.222.840, Village- Kendumundi in Saraskana Tahsil under Mayurbhanj District- reg

Ref: 1. PD, PIU- Balasore letter No.720 dated 22.06.2021
2. Authority's Engineer, M/s RITES Ltd. letter no.543 dated 26.03.2021
3. Executive Engineer, Mega Lift Projects, Govt. of Odisha, Bhubaneswar letter No. 77 (WE) / MLP (W) 30/18 dated 11.01.2021

Sir,

Please find enclosed herewith a proposal of Executive Engineer, Mega Lift Projects, Govt. of Odisha, Bhubaneswar for laying of 250 mm dia HDPE pipe for irrigation water supply across NH-49 at Km.222.840, village- Kendumundi in Saraskana Tahsil under Mayurbhanj District. The details is as under:

Sl. No.	Chainage		Along/ Across	Length (in meter)	Remark
	From	To			
1.	222.840		Crossing	The width of RoW	Laying of 400mm dia Casing Pipe with 250 mm dia HDPE pipe for irrigation water supply across NH-49 at Km.222.840, Village- Kendumundi in Saraskana Tahsil under Mayurbhanj District by HDD Method

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.

Yours faithfully,

[Signature]
07-07-2021

(Dr. Ram Prasad Panda)
CGM (Tech) & RO- Odisha

Copy to PD, PIU- Balasore



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NHAI/13011/54/RO/OD/ 1767 /2021

07.07.2021

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and Upgradation to Four Laning of Bahargora to Singhara Section (Km. 199.200 to Km. 310.806) of NH - 6 (Length - 111.606 Km) in the State of Odisha under NHDP Phase - IV, on EPC Mode – Application for seeking permission for laying of 250 mm dia HDPE pipe for irrigation water supply across NH-49 at Km.222.840, Village- Kendumundi in Saraskana Tahsil under Mayurbhanj District- reg

Executive Engineer, Mega Lift Projects, Govt. of Odisha, Bhubaneswar has submitted a proposal for laying of 250 mm dia HDPE pipe for irrigation water supply across NH-49 at Km.222.840, village- Kendumundi in Saraskana Tahsil under Mayurbhanj District. The details is as under:

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2. As per guidelines issued by MoRT&H 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 are 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

Handwritten signature and date 07-07-2021

CGM (Tech) & RO- Odisha
National Highways Authority of India,
Regional Office, Odisha
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CHECK - LIST

Guidelines For Project Directors For Processing The Proposal For Laying Water Pipe Line In The Land Across National Highway Vested with NHAI

Relevant Circulars :

1. Ministry Circular No.NH-41 (58)/68 Dated 31-01-1969
2. Ministry Circular No.HN-III/P/66/76 Dated 18/19-11-1976
3. Ministry Circular No. RW/NJ-111/P/66/76 Dated 01-05-1982
4. Ministry Circular No. RW/NH-11037/1/86-DOI(II) Dated 28-07-1993
5. Ministry Circular No. RW/NH/11067/1/86 DOI Dated 19-04-1995
6. Ministry Circular No. RW/NH/34066/2/95/S&S Dated 25-10-1999
7. Ministry Circular No. RW/NH-34066/7/2003 S&R Dated 17-09-2003
8. Ministry Circular no. RW/NH-33044/29/2015/S&R® dt.22nd November 2016

Check list for getting approval for laying of water supply pipe line on NH land

S.NO	ITEM	INFORMATION / STATUS	REMARKS
1	General Information	Augumentation of water supply to District in Mayurbhanj	
1.1	Name And Address Of The Applicant	Executive Engineer ,MEGA Lift Projects, Bhubaneswar .	
1.2	National Highway Number	NH-49 (OLD NH-6)	
1.3	STATE	ODISHA	
1.4	Location	Permission for crossing of water pipeline at chainage 222.840 km on NH-49 (Old NH-6)	
1.5	Chainage in km	222.840 Km	
1.6	Length in Metres	Total crossing length-45.0 M Width of road including shoulder-26.0 M .	
1.7	Width Of Available Road Of NHAI Land	Existing Row	
	(a)Left Side From Centre Line (Towards Increasing Chainage /KM Direction)	22.50 M (from NHAI boundary)	
	(b)Right Side From Centre Line (Towards Increasing Chainage /KM Direction)	22.50 M (from NHAI boundary)	
1.8	Proposal To Lay Underground Water Pipeline		
	(a)Left Side From Centre Line (Towards Increasing Chainage /KM Direction)	Up to 22.5 M	
	(b)Right Side From Centre Line (Towards Increasing Chainage /KM Direction)	Up to 22.5 M	
1.9	Proposal To Acquire Land		
	(a)Left Side From Centre Line	Nil	
	(b)Right Side From Centre Line	Nil	
1.10	Whether Proposal Is In The Same Side Where Land Is Not To Be Acquired	Yes & Both sides available.	
	If Not Then Where To Lay The Water Pipeline		
1.11	Details Of Already Laid Services,If Any Along The Proposal Route	Nil	
1.12	Number Of Lanes (2/4 or 6/8)Existing	2 lane	

Project Director,
National Highways Authority of India
PIU-BALASORE

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1.13	Proposed Number Of Lanes (2 Lanes With Paved Shoulders)	4 lane	
1.14	Service Road (Existing or Not)Y/N If Then Which Side	N.A	
	(a)Left Side From Centre Line(Width)		
	(b)Right Side From Centre Line (width)		
1.15	Proposed Service Road	N.A	
	(a)Left Side From Centre Line(Width)		
	(b)Right Side From Centre Line (width)		
1.16	Whether Proposal to lay Water supply pipeline is after the service road or between the service and main carriageway	N.A	
1.17	The Permission for laying of water supply pipe line shall be considered for approval/rejection based on the Minisry circulars mentioned as above		
	(a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as furnes/gases pipes can accelerate the process of corrosion or may cause explosions,thus,being much more injurious than leakage of water	N.A	
	(b) Carrying of water pipe lines on bridges shall also be discourage(d)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 finalize permitted to carry the pipeline on independent superstructure,supported on extended portions of piers and abutments in such a manner that in the final arrangemen enough free spade around the superstructure of the bridge remains available for inspection and repairs,etc	N.A	
	(c) Cost of required extension of the substructure as well as that of the supporting superstructureshall be borne by the agency in charge of the utilities.	No structure on the route	
	(d) Services are not being allowed indiscriminately on the parapet/any part of the bridges,safety of bridges has to be kept in view while permitting various services along bridg(e) Approvals are to be accorded in this regard with the concurrence of the Ministry's Project Chief Engineers only.	N.A	
1.18	If crossings of 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 .		Project Director, National Highways Authority of India PIU-BALASORE
	(a) Existing drainage structures shall not be allowedto carry the lines .	Agreed	
	(b) Sit on a line normal to NH	Yes	

	(c) crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter, what is the distance from the existing structures.	15 Mtr from existing box culvert at Ch. 222.855 ✓	
	(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.	400 mm Dia x 6 mm thickness MS Pipe	
	(e) Ends of the casing / conduit pipe in shall be sealed from the outside, so that it does not act as a drainage path(h).	Yes agreed	
	(f) The casing / conduit pipe shall be sealed from drain to in cuts and toe of slope in the fills.	Yes 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 invert.	Yes agreed	
	(h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes 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.	Yes agreed	
2	Document /Drawing Enclosed with the proposal.	Sketch attached	
2.1	Cross section showing the size of the trench for open trenching method (It is Normal size of 1.2 deep x 0.3 m wide).	<u>Pipeline will be cross by HDD method</u>	
	(i) should not be greater than 60 cm wider than the outer diameter of the pipe.		
	(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 carriage way.		
	(iii) Shall not be permitted to run along the National highway when the road formation is situated in double cutting. Nor shall these be laid over existing culverts and bridges.		
	(iv) These should be also laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.		
2.2	Cross section showing the size of pit and location of cable for HDD method.	Yes attached in Annexure	

Project Director,
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2.3	Strip plan/Route plan showing water pipe line, chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersections, cross drainage works etc .	Yes attached in Annexure	
2.4	Methodology for laying of water pipe line .	By pushing and cutting method & Horizontal directional drilling	
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 .	N.A	
	(a) The trench width should be at least 30 cm. but not more than 60 cm wider than the outer diameter of the pipe .	N.A	
	(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 (c) Unsuitable soil and rock edges should be excavated and replaced by selected material.	N.A	
	(c) The backfill shall be completed in two stages .	N.A	
	(i) side fill the level of the top of the pipe and		
	(ii) Overfill to the bottom of the road crust.		
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture of 90% of the proctor's density as the material that had been removed . consolidation by saturation or ponding will not be permitted .	N.A	
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench (h) care shall be taken to avoid the formation of dip at the trench .	N.A	
	(f) The excavation shall be protected by flagman, signs and barricades and red lights during the night hours.	Yes	
	(g) If required, a diversion shall be constructed at the expense of the agency owning the utility line .	Yes	
2.4.2	Horizontal Directional drilling (HDD) Method .	Crossing is to be done by HDD method. ✓	
2.4.3	Laying of water supply pipeline through CD work and method laying .		

Project Director,
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	(a) Open approaches the water mains/cables shall be carried along a line as close to the edge of the right of the 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 NH-HI/66/76 dated 19-11-1976.	N.A	
3	Draft License agreement signed by two witnesses.	Enclosed	
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.	BG shall be deposited by the applicant at the time of permission	
	good the excavated trench for laying the cables/ducts by proper filling and compaction ,clearing dedris/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 license for clearing debris/loose earth.		
4.1	Performance BG as per above is to be obtained .	Yes	
4.2	Confirmation of BG has been obtained as per NHAI giudelines .	Will be obtained after permission of crossing is issued	
5	Affidative /undertaking from the application for .		
5.1	Not to damage to other utility ,if damaged then to pay the losses either to NHAI or to the concerned ageny .	Yes Agreed	
5.2	Renewal of bank guarantee .	N.A	
	Confirming all standard condition of NHAI's giudelines .	Yes binding and undertaking obtained	
5.4	Shifting to water pipelines as and when required by NHAI at their own cost .	Yes binding and undertaking obtained	
5.5	Shifting due to Lanning / widening of NH .	Yes binding and undertaking obtained	
5.6	Indemnity against all damages and claims clause (xxiv) .	Yes binding and undertaking obtained	
5.7	Traffic movement during laying of water pipeline to be managed bt the applicant .	Yes binding and undertaking obtained	
5.8	If any claim is raised by the concessinaire then the same has to be paid by the applicant .	Yes binding and undertaking obtained	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of the installation,shifting or repairs,of alteration to the showing water pipe line located in the National Highway right of ways .	Yes binding and undertaking obtained	

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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 water pipe line will be borne by the agency owning the line.	Yes binding and undertaking obtained	
5.11	If the NHAI consider it necessary in future to move the utility line for any work of improvement or repairs of the road ,it will be carried out as desired by the NHAI or the cost of the agency owning the utility line with in a reasonable time (not exceeding 60 days)of the intimation given.	Yes binding and undertaking obtained	
5.12	Cerficate from the application in the following format:	Yes	
	(i) Laying of water pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic .	Yes	
	(ii) for Lanning "we do undertake that I will relocates service road/approach road/utilities at my own cost not withstanding 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 or water pipeline agency .	Executive Engineer ,MEGA Lift Projects, Bhubaneswar	
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 Dated 11-05-1982 Ministry circular No.RW/NH-11037/1/86-DOI (II)DATED 2/1/1993 Ministry circular No.RW/NH-11037/1/86-DOI Dated 19-1-1995.	Yes ?	
	Ministry circular		
	No.RW/NH/31066/2/95/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 water pipeline would be extremely difficult and unreasonable costly and the installation of water pipeline 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 carrigeway easing of curves etc .	Yes ?	Project Director, National Highways Authority of India PIU-BALASORE
	(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 locatoin".		
	(B) In case feasibility Report is not available -"I do certify that sufficient ROW is available at site for accommodating proposed six Lanning".		
8	If NH sextion 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 wate pipeline 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 license shall Honour our the same .	Clause is inserted in the Agreement	
9	Who will supervise the work of laying of water pipeline .	Executive Engineer, Mega Lift Project, Bhubaneswar	✓
10	Who will ensure ,that the defects in road portion after laying of water pipeline are corrected and if not corrected then what action will be taken .	Executive Engineer, Mega Lift Project, Bhubaneswar	✓
11	Who will pay the claims for damage done /disruption in working of concessionaire if asked by the concessionaire .	Executive Engineer, Mega Lift Project, Bhubaneswar	✓
12	A certificate from PD that he will entre the proposed permission in the register records of the permission in the prescribed proforma(copy enclosed) .	Attached	
	if any previous approval is accorded for of underground water pipeline then photo copy of register of records of permission accorded as maintained by PD then copy enclosed .	N.A	


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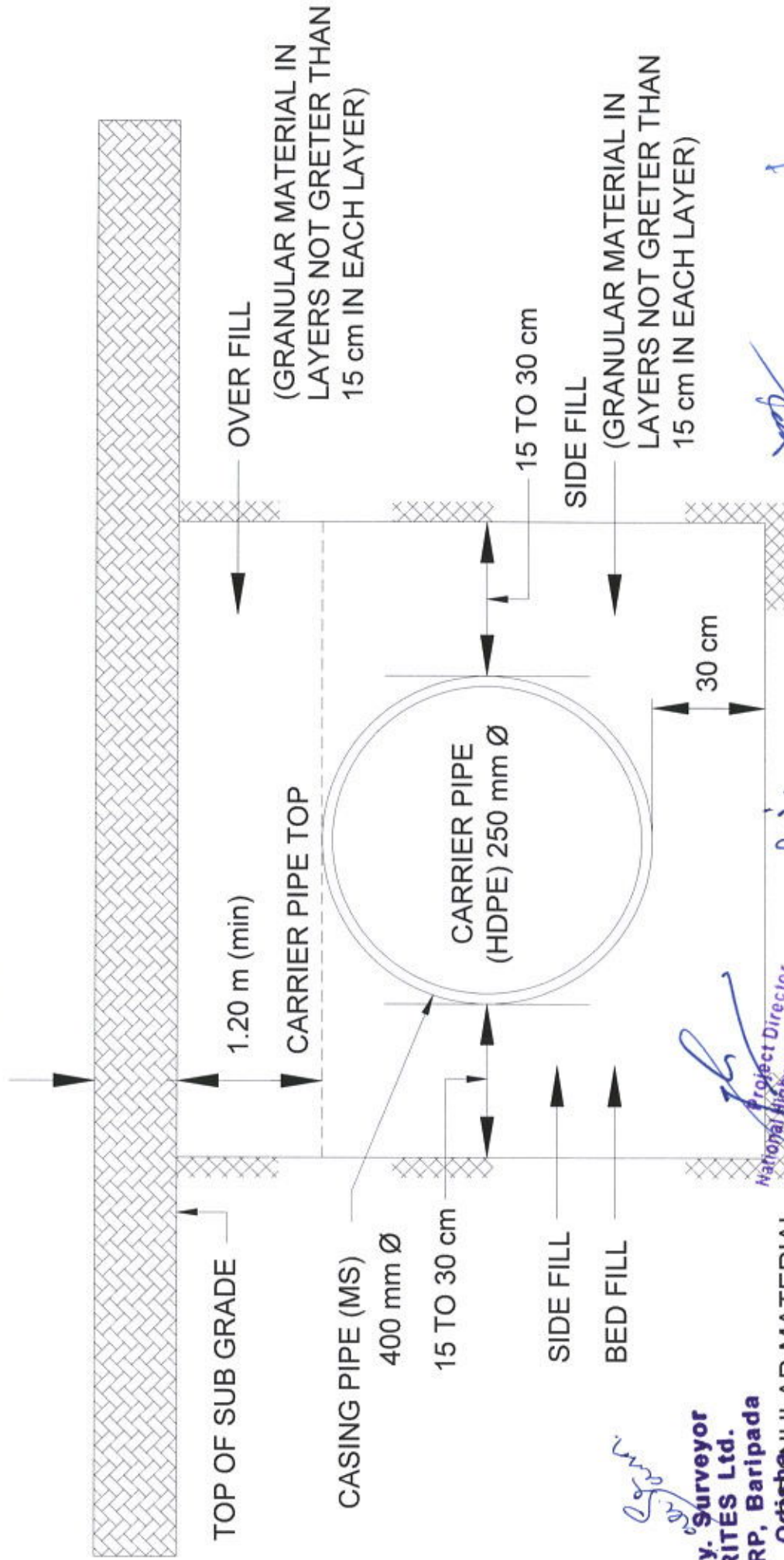

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Project Director,
National Highways Authority of India
PIU-BALASORE

TOP OF THE ROAD



Odisha
(GRANULAR MATERIAL)

FREE FROM LUMPS, COLDS AND CABLES) Sr. Qty. Surveyor
PILLBANK, Authority India
RITES Ltd.

~~Project Director,
National Highways Authority~~

Qty. Surveyor
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Executive Engineer
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NH CROSS SECTION DETAIL AT KENDUMUNDI VILLAGE

TECHNICAL SPECIFICATION


A.I> HDPE PIPE:

Classification of Pipe:

1. Nominal Diameter 250 MM PN-6 KG/cm²
2. Minimum Wall Thickness: 12 mm
3. Maximum Wall Thickness: 13.3 mm
4. Weight: 9.08 Kg/Mtr
5. As per IS: 4984

A.II> CASING PIPE:

400 mm dia x 6 mm thickness MS pipe for casing pipe conforming the IS: 3589


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