

भारत सरकार  
सड़क परिवहन एवं राजमार्ग मन्त्रालय  
क्षेत्रीय कार्यालय  
(199/सी1 फ्लोर), विद्यालय मार्ग, रोड  
न01,अशोक नगर, रॉंची-834002.



GOVERNMENT OF INDIA  
Ministry of Road Transport & Highways  
Regional Office  
199/C(1st Floor),Vidyalaya Marg, Road  
No.1 Ashok Nagar, Ranchi-02  
E-Mail- roranchi03@gmail.com  
Ph: (0651) – 2240223, 2240222

No. RW/Ranchi/OFC/81/2021-22/JHR/186

Dated: 02<sup>nd</sup> June, 2023

**Invitation of public comments**

**Sub: Proposal for permission for laying 660 mm dia Crude Oil pipelines across (i) NH-333A at km 21.270,(ii) NH-133 at km 14.115 & km 42.927 and (iii) NH-114A at km 38.745.**


The Chief Engineer (NH), RCD, Ranchi vide letter no. CE/NH/212 (WE) dated 06-03-2023 has forwarded therewith a proposal to this office for proposal for permission for laying 660 mm dia Crude Oil pipelines across (i) NH-333A at km 21.270,(ii) NH-133 at km 14.115 & km 42.927 and (iii) NH-114A at km 38.745 submitted by the Numaligarh Refinery Ltd.122A, G.S.Road, Christianbasti, Guwaahati i.e the applicant on above mentioned subject work.

2. As per Ministry OM vide no. 33044/29/2015/S&R(R) dated 22.11.2016, the Highway Administration will make available the proposal seeking permission for utility services 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 and the same should reach to below mentioned address within 30 days from the date of invitation of public comments beyond which no comments will be considered.

The Chief Engineer-Regional Officer,  
Ministry of Road Transport & Highways,  
(1<sup>st</sup> Floor), 199/C, Vidyalaya Marg,  
Ashok Nagar, Ranchi, Jharkhand -834002.  
Email Id: [roranchi03@gmail.com](mailto:roranchi03@gmail.com)

Encl. Application as above

  
(S. Vijaya Kumar)

Chief Engineer-Regional Officer

Copy to:

- (i) The Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's website.
- (ii) The Chief Engineer (NH), Road Construction Department, Engineer's Hostel, HEC Campus, Dhurwa, Ranchi-834004.
- (iii) The Chief General Manager (Project-Pipeline), Numaligarh Refinery Ltd.122A, G.S.Road, Christianbasti, Guwaahati-781005.



# OFFICE OF THE CHIEF ENGINEER

## National Highways Wing

Road Construction Department, Jharkhand

Engineer's Hostel, Dhurwa, Ranchi – 834004

Email id : cenh-jhr@nic.in cenhjhr@gmail.com ; Tele : 0651-2400863



Letter No : CE/NH/

212 (wt)

/Ranchi, Date :

06/3/23

To,

The Regional Officer,  
Ministry of Road Transport & Highways,  
Govt. of India, Regional Office,  
Ranchi.

Sub.: Permission for NRL'S Paradip-Siliguri-Numaligarh Crude Oil Pipeline Project :

1. For laying 26" dia (660mm) Crude Oil Pipeline along with Optical Fiber Cable through HAB (Horizontal Agaour Boring) method across National Highways No. 333A at Km 21+270 Near Village-Daldali, Achal-Godda, Jharkhand;
2. For laying 26" dia (660mm) Crude Oil Pipeline along with Optic Fiber through HAB (Horizontal Agaour Boring) method across National Highways No. 133 at Km 14+115 Near Village-Dwarkakita, Tehsil – Mahagama, Dist-Godda, Jharkhand;
3. For laying 26" dia (660mm) Crude Oil Pipeline along with Optic Fiber through HAB (Horizontal Agaour Boring) method across National Highways No. 133 at Km 42+927 Near Village-Ghat Gamariya, Tehsil – Mahagama, Dist-Godda, Jharkhand;
4. For laying 26" dia (660mm) Crude Oil Pipeline along with Optic Fiber through HAB (Horizontal Agaour Boring) method across National Highways No. 114A at Km 38+745 Near Village-Pokhariya, Anchal-Shikaripar, Dist-Dumka, Jharkhand;

Ref.: Superintending Engineer, National Highways Circle, Dhanbad letter No. 12 (Anu) dated 07.01.2023.

Sir,

Please find enclosed herewith the proposal of permission for NRL'S Paradip-Siliguri-Numaligarh Crude Oil Pipeline Project as has been received from Superintending Engineer, National Highways Circle, Dhanbad vide letter under reference.

2. Henceforth, the proposal is submitted for further necessary action.

Encl. : As above.

Yours Sincerely,

(W.Q.Faridi)

Chief Engineer

NH Wing, Jharkhand, Ranchi.

Pl examine & put up. 20/3/2023

TA





झारखण्ड सरकार

अधीक्षण अभियंता का कार्यालय

राष्ट्रीय उच्च पथ अंचल, धनबाद-826001(झारखण्ड)

E-mail ID : sengineernhcdhanbad@gmail.com दूरभाष :0326-2312513

पत्रांक 12(24030)

धनबाद, दिनांक 07/01/23

प्रेषक,

सुदर्शन चौबे,  
अधीक्षण अभियंता,  
राष्ट्रीय उच्च पथ अंचल, धनबाद।

सेवा में,

मुख्य अभियंता,  
राष्ट्रीय उच्च पथ उपभाग,  
झारखण्ड, राँची।

- Permission for NRL'S Paradip – Siliguri – Numaligarh Crude oil pipeline project:-
1. For laying 26" dia (660mm) Crude Oil pipeline along with optical fiber cable through HAB (Horizontal Agour Boring) method across National Highway No. 333A at Km 21+270 Near Village-Daldali, Anchal-Godda, Dist-Godda, Jharkhand.
  2. For laying 26" dia (660mm) Crude Oil pipeline along with optic fiber through HAB (Horizontal Agour Boring) method across National Highway No. 133 at Km 14+115 Near Village-Dwarkakita, Tehsil- Mahagama, Dist-Godda, Jharkhand.
  3. For laying 26" dia (660mm) Crude Oil pipeline along with optic fiber through HAB (Horizontal Agour Boring) method across National Highway No. 133 at Km 42+927 Near Village-Ghat Gamariya, Tehsil- Mahagama, Dist-Godda, Jharkhand.
  4. For laying 26" dia (660mm) Crude Oil pipeline along with optic fiber through HAB (Horizontal Agour Boring) method across National Highway No. 114A at Km 38+745 Near Village-Pokhariya, Anchal-Shikaripara, Dist-Dumka, Jharkhand.

प्रसंग:-

कार्यपालक अभियंता, रा0 उ0 पथ प्रमंडल, देवघर का पत्रांक-2430(अनु0) दिनांक-16.12.2022

महाशय,

भेजी जा रही है।

प्रासंगिक पत्र द्वारा प्राप्त विषयाधीन कार्य से संबंधित प्रस्ताव इस पत्र के साथ संलग्न कर अग्रतर कार्रवाई हेतु

अनु0:- यथोक्त।

विश्वासभाजन,

(सुदर्शन चौबे)

अधीक्षण अभियंता,

रा0उ0पथ अंचल, धनबाद।

क्रा. 23

*Handwritten signatures and notes:*  
19 Jan 23  
Manendra  
ank sec...

(29)

**कार्यपालक अभियंता का कार्यालय**  
राष्ट्रीय उच्च पथ प्रमंडल, पथ निर्माण विभाग, देवघर, झारखण्ड  
सर्कुलर रोड, नियर उपायुक्त आवास, देवघर, झारखण्ड (814112)

पत्रांक 2430 (अनु०)  
प्रेषक,

दिनांक 16.12.2022

कार्यपालक अभियंता,  
रा० उ० पथ प्रमंडल,  
देवघर।

सेवा में,

अधीक्षण अभियंता,  
रा० उ० पथ अंचल,  
धनबाद।

- विषय :- Permission for NRL'S Paradip - Siliguri - Numaligarh Crude oil pipeline project:-
1. For laying 26" dia (660mm) Crude Oil pipeline along with optical fiber cable through HAB (Horizontal Agour Boring) method across National Highway No-333A at Km 21+270 Near Village-Daldali, Anchal-Godda, District- Godda, Jharkhand.
  2. For laying 26" dia (660mm) Crude Oil pipeline along with optic fibe cable through HAB (Horizontal Agour Boring) method across National Highway No-133 at Km 14+115 Near Village-Dwarkakita, Tehsil-Mahagama, District- Godda, Jharkhand.
  3. For laying 26" dia (660mm) Crude Oil pipeline along with optic fibe cable through HAB (Horizontal Agour Boring) method across National Highway No-133 at Km 42+927 Near Village-Ghat Gamariya, Tehsil-Mahagama, District- Godda, Jharkhand.
  4. For laying 26" dia (660mm) Crude Oil pipeline along with optic fiber cable through HAB (Horizontal Agour Boring) method across National Highway No-114A at Km 38+745 Near Village - Pokhariya, Anchal - Shikaripara, District - Dumka, Jharkhand.

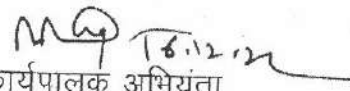
- प्रसंग :-
1. क्षेत्रीय पदाधिकारी, सड़क परिवहन एवं राजमार्ग मंत्रालय, झारखण्ड, राँची का पत्रांक RW/Ranchi/OFC/81/2020-21/JHR/813 dt. 18.11.2021
  2. General Manager NRL, Burdwan letter No. NRL/PP/C/025/95, Dt. 24.09.2022, letter No. NRLG/JH/C/025/127/2, Dt. 22.11.2022.
  3. सहायक अभियंता, रा० उ० प० अवर प्रमंडल, गोड्डा का पत्रांक 59 (अनु०) दिनांक 16.12.2022
  4. सहायक अभियंता, रा० उ० प० अवर प्रमंडल, दुमका का पत्रांक 109(अनु०) दिनांक 24.11.2022

महाशय,

उपर्युक्त विषयक क्षेत्रीय पदाधिकारी, सड़क परिवहन एवं राजमार्ग मंत्रालय, झारखण्ड, राँची का पत्रांक RW/Ranchi/OFC/81/2020-21/JHR/813 dt. 18.11.2021 के आलोक में प्रासंगिक पत्र सं० 2 के द्वारा वांछित प्रतिवेदन समर्पित किया गया है, जिसे अग्रतर कार्रवाई हेतु समर्पित की जा रही है।

अनु०:- यथोक्त।

विश्वासभाजन

  
कार्यपालक अभियंता  
रा० उ० प० प्रमंडल,  
देवघर।

16/12/22



NUMALIGARH  
REFINERY  
LIMITED

A GOVERNMENT OF INDIA UNDERTAKING



CIN : U11202AS1993GOI003893

Ref.No. NRLG/PP/C/025/76

Date: 2-7-2021

To,  
Executive Engineer,  
NH Division, Deoghar,  
Jharkhand.

**Sub: Permission for laying 26" Dia (660 mm) Crude Oil Pipeline along with Optic Fiber Cable through HAB Method across National Highway under your jurisdiction for proposed Paradip – Siliguri – Numaligarh Crude Oil Pipeline Project.**

Dear Sir,

Numaligarh Refinery Limited (NRL), a Government of India Enterprise, operates its 3.0 MMTPA Refinery at Numaligarh in the District of Golaghat, Assam since 2000. NRL is now embarking upon a mega project of capacity augmentation from present 3.0 MMTPA to 9.0 MMTPA. The required additional quantity of 6.0 MMTPA crude oil is to be imported through Paradip Port in Odisha and transported to its refinery by a cross country crude oil pipeline.

Government of India vide Ministry of Petroleum and Natural Gas (MOP&NG) Letter No. F. No. R-11023/01/2015 /-OR.I dated 28th January 2019 has approved the said project with a firm target of completion within 48 months.

The proposed 26-inch (660 mm) dia Crude Oil Pipeline along with 40 mm OFC duct / Cable from Paradip to Numaligarh will be crossing the following under your jurisdiction:

Sl. No.	Particulars	NRL's PL Chainage (Km)	NH Chainage (Km)	Location of crossing
1.	Pipeline laying across NH-333A (Godda to Pakur Road)	574.831	21+270	Village – Daldali, Anchal – Godda, District - Godda in the State of Jharkhand.

Please reply to .

NRL Registered office : Project Pipeline Division, Numaligarh Refinery Limited, 122A, Christian Basti, G S Road Guwahati – 781 005, Phone : 0361 220 3140, Telefax : (0361) 203146

**REFINERY OFFICE**

Pankajanti, P.O. Numaligarh Refinery Complex  
Dist. : Golaghat, Assam, Pin – 785 699,  
Fax : 03776-265755  
EPABX – 03776-265-593 / 594 / 413

**COORDINATION OFFICE**

Tolstoy House, 6<sup>th</sup> Floor, 15-17, Tolstoy Marg,  
New Delhi – 110 001 (India)  
Phone : (011) 23739411, 23739413  
Telefax : (011) 23739412  
E-mail : numaligarh@del2.vsnl.net.in

**KOLKATA OFFICE**

4<sup>th</sup> Floor, Bharat Bhawan, Plot No. 31, KIT Scheme No.  
118 Prince Gulam Md. Shah  
Road, Gult Green, Kolkata – 700 085  
Phone : (033) 24293054 / 3055  
Telefax : (033) 24293079  
E-mail : nrl@caltpcr.com





NUMALIGARH  
REFINERY  
LIMITED

A GOVERNMENT OF INDIA UNDERTAKING



CIN : U11202AS1993GOI003893

The following documents are attached for your reference:

1. Checklist along with relevant drawing / documents as per MoRTH guidelines for obtaining crossing permission
2. Authorization granted by MOPNG for laying pipeline
3. Cross Section Drawing.
4. Typical Cross Section Drawing.
5. Construction Methodology.

We assure you that the crossings shall be designed as per latest safety standards by our Engineering Consultant, M/s EIL and the same shall be adhered to during construction activity. Accordingly, we also request you kindly intimate us any applicable Government Fees, security deposit, statutory charges etc. to be paid for issuance of your "NOC" for crossing the pipeline at the said locations.

It may be mentioned here that the said project of NRL included under "National Infrastructure Pipeline" by Government of India and therefore, we request your kind cooperation in this regard to enable us to execute this mega project within Govt. of India approved timeline.

Thanking You,

For Numaligarh Refinery Limited,

**Monuj Kumar Pegu**  
Chief General Manager (Project Pipeline)

Monuj Kumar Pegu  
Chief General Manager (Project - Pipeline)  
Numaligarh Refinery Ltd.  
122A, G. S. Road, Christianbasti  
Guwahati-781005

Please reply to :

NRL Registered office, Project Pipeline Division, Numaligarh Refinery Limited, 122A, Christian Basti, G. S. Road Guwahati - 781 005. Phone : (0361) 220 3140, Telefax : (0361) 203146

**REFINERY OFFICE**

Pankagrati, P. O. : Numaligarh Refinery Complex,  
Dist. : Golaghat, Assam, Pin - 785 699.  
Fax : 03776-265755  
EPABX - 03776-265-593 / 594 / 413

**COORDINATION OFFICE**

Tolstoy House, 6<sup>th</sup> Floor, 15-17 Tolstoy Marg,  
New Delhi - 110 001 (India)  
Phone : (011) 23739411, 23739413  
Telefax : (011) 23739412  
E-mail : numaligarh@del2.vsnl.net.in

**KOLKATA OFFICE**


4<sup>th</sup> Floor, Bharat Bhawan, Plot No. 31, K.T. Scheme No.  
116 Prince Gulam Md. Shah  
Road, Gulf Green, Kolkata - 700 096  
Phone : (033) 24293054 / 3055  
Telefax : (033) 24293079  
E-mail : nri@caltiger.com


## SITE INSPECTION REPORT

Sub : Permission for laying 26" dia (660mm) Crude Oil pipeline along with optical fiber cable through HAB (Horizontal Agour Boring) method across National Highway No-333A at Km 21+270 Near Village-Daldali, Anchal-Godda, District- Godda, Jharkhand for proposed Paradip – Siliguri - Numaligarh Crude Oil Pipeline Project.

The Details are as under :

1. The proposed pipe laying 26" dia (660mm) with casing 32" dia (813mm) Crude oil pipeline site falls in rural stretch (plain).
2. The NH-333A is undivided carriageway width 7m and existing ROW 24m (Approx).
3. No toll plaza / check barrier / railway crossing is existed within the distance of 1000m from both sides of the access to the proposed Site.
4. No intersection/ Median openings are within the distance of 300m from both sides of the access to the Proposed Site.
5. There are exist a under construction building in alignment of proposed pipeline beyond ROW 24m near TP 984. Towards Paradip.
6. The above proposed site fulfills all the requirements given in Ministry's guidelines quoted above.
7. Keeping in view of the conditions, the above proposal is recommended for kind approval.

  
J.E.  
N.H. Section  
Godda

  
A.E.  
N.H. Sub-Division  
Godda

### CHECK - LIST

Guidelines for Project Directors for processing the proposal for laying of Crude Oil Pipe Line in the land along/ Across National Expressway vested with NHAI /NH Division.

- Relevant circulars of Ministry of Road Transport and Highways

Circular No. NH-III/P/66/76 dated 18/19.11.1976

Circular No. RW/NH-III/P/66/76 dated 11.5.1982

Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993

Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995

Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999

Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003

Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Check list for getting approval for laying of Gas Pipe Line on NH land (To be filled by the PIU)

The permission for laying of Oil Pipe Line shall be considered for approval / rejection based on the Ministry Circulars mentioned as above,

Carrying of sewage / **Oil 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.

Services 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.

Guidelines for processing the proposal for laying of utility line in the land along National Highways vested with NHAI / PWD / BRO.

General Information		
1	Name and Address of the Applicant / Agency	Numaligarh Refinery Limited, Registered Office: 122A, Christian Basti, G.S. Road, Guwahati – 781005, Assam.
2	National Highway Number	NH-333A (Godda – Pakur Road)
3	State	Jharkhand
4	Location	21+270 Km of NH- 333A in Village – Daldali, Anchal – Godda, District - Godda in the State of Jharkhand.
5	Chainage in km	Crossing of NH-333A at NH Km 21+270 Km
6	Length in Meters	24.00 Meters
7	Width of available ROW in both side	
8	(a) Left side from center line towards increasing chainage/ km direction	12.00 Meters
	(b) Right side from center line towards increasing chainage/ km direction	12.00 Meters
9	Name of Highway authority of NHAI / PWD / BRO	NH Division
10	Highway Administration address	Executive Engineer, NH Division, Deoghar, Jharkhand

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22/9/2017  
JE, NH

cls

24/9/21  
AE

cls

51.10.17  
Executive Engineer  
National Highway Division  
Deoghar

Monuj Kumar Pegu  
Chief General Manager (Project - Pipeline)  
Numaligarh Refinery Ltd.  
122A, G. S. Road, Christianbasti  
Guwahati-781005



Sr. No.	Item	Measurement observation as per site	MoRTH Norms	Weather complying MoRTH Norms (Y/N)
1	Details of already laid services, if any, along the proposed route	OFC	RW/NH-33044/29/2015/S & R (R) dated 22.11.2016 & 26 <sup>th</sup> June 2020	-
2	Whether up-gradation of the stretch in near future is proposed or not	Not	-do-	-
	(a) If yes, provision of utility adversely affect the plan of up-gradation	Not applicable	-do-	-
<b>3</b>	<b>Laying of the utility service along the National Highways.</b>			
3.1	Location of the proposed utility service along the stretch	Not applicable	-	-
3.2	Depth of top of utility service from ground level	Not applicable	-	-
3.3	Mechanism for crossing water channel	Not applicable	-	-
3.4	Whether ROW is restricted in this stretch?	Not applicable	-	-
3.4.1	If yes, whether provision of land acquisition is required to lay utility	Not applicable	-	-
	(a) If yes, whether undertaking for land acquisition along will relevant L.A. Details has been furnished	Not applicable	-	-
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts.	Not applicable	-	-
<b>4</b>	<b>Laying utility services across to N.H.</b>			
4.1	Whether Existing drainage structures is allowed to carry the utility lines.	No	-	-
4.2	Proposed crossing of utility service.	Crude OIL Pipeline & OFC	-do-	Yes
4.3	Type of casing pipe / conduit carrying the utility line.	26" dia Carrier Pipe in 32" Casing Steel Pipe	-do-	Yes
4.4	Whether ends of the casing / conduit pipe are sealed from the outside.	Yes	-do-	Yes
4.5	Length of casing / conduit pipe crossing N.H.	24.00 meters	-do-	Yes
4.6	Depth of top of the casing / conduit pipe.	Min 3.0m	-do-	Yes

  
**Monuj Kumar Pegu**  
 Chief General Manager (Project-Pipeline)  
 Numaligarh Refinery Ltd.  
 122A, G.S. Road, Christinbasti  
 Guwahati-781005

4.7	Crossing method in case of CC pavement.	Trenchless method (Horizontal Boring Method)	-do-	Yes
4.8	Horizontal and vertical clearances in case utilities are allowed overhead.	NA	-	--
5	<b>Document/ Drawings enclosed with the proposal.</b>			
5.1	Cross-Section showing the size of trench for open trenching method	NA	-	-
	(a) Trench width	NA	-	-
	(b) Filling of trench	NA	-	-
	(c) Location of trench	NA	-	-
5.2	Cross - Section showing the size of pit and location of conduit for HDD method	Drawing Enclosed	-do-	Yes
5.3	Strip plan/ Route plan showing utility line, Chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Drawing Enclosed	-do-	Yes
5.4	Plan and profile drawing of stretch showing Cross - Section of road at 20 m distance along with ROW and Proposed utility.	NA	-	-
6	Methodology for laying of utility line	Enclosed	-do-	Yes
7	Draft license Agreement is as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/S&R (R) dated 22.11.2016 and signed by two witnesses	Enclosed	-do-	Yes
8	License fees in favor of MoRTH	Will be submitted as and when informed by NHAI	-do-	Yes
9	Whether Bank Guarantee has been obtained	Will be submitted as and when informed by NHAI	-do-	Yes
	(a) If yes, whether Confirmation of BG has been obtained as per MoRTH / NHAI guidelines.	Will be submitted as and when informed by NHAI	-do-	Yes
10	<b>Affidavit / Undertaking from the Applicant for the following is to be furnished</b>			
10.1	Undertaking for not to Damage to other existing utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Enclosed	Enclosed	Yes

*Monuj Kumar Pegu*

Monuj Kumar Pegu  
Chief General Manager (Project - Pipeline)  
Numaligarh Refinery Ltd.  
122A, G. S. Road, Christianbasti  
Guwahati-781005

10.2	Undertaking for Renewal of Bank Guarantees and when asked by NHAI / MoRTH.	Enclosed	Enclosed	Yes
10.3	Undertaking for Confirming all standard condition of MoRTH / NHAI guidelines.	Enclosed	Enclosed	Yes
10.4	Undertaking for Shifting of utility as and when asked by MoRTH / NHAI within a month at their own cost.	Enclosed	Enclosed	Yes
10.5	Undertaking for indemnity against all damages and claims	Enclosed	Enclosed	Yes
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed	Enclosed	Yes
10.7	Undertaking that If any claim is raised by the Concessionaire / contractor then the same has to be paid by the applicant.	Enclosed	Enclosed	Yes
10.8	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Enclosed	Enclosed	Yes

The Right of the way (ROW) of the National Highway available at the proposed location from the center line of divided carriageway is 12.00 m at RHS and 12.00 m at LHS towards increasing chainage of NH (From center of ROW to edge of ROW towards proposed utility).

The above particulars along with the drawings and documents have been verified and certified as correct as per prevailing site conditions.

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Verified by

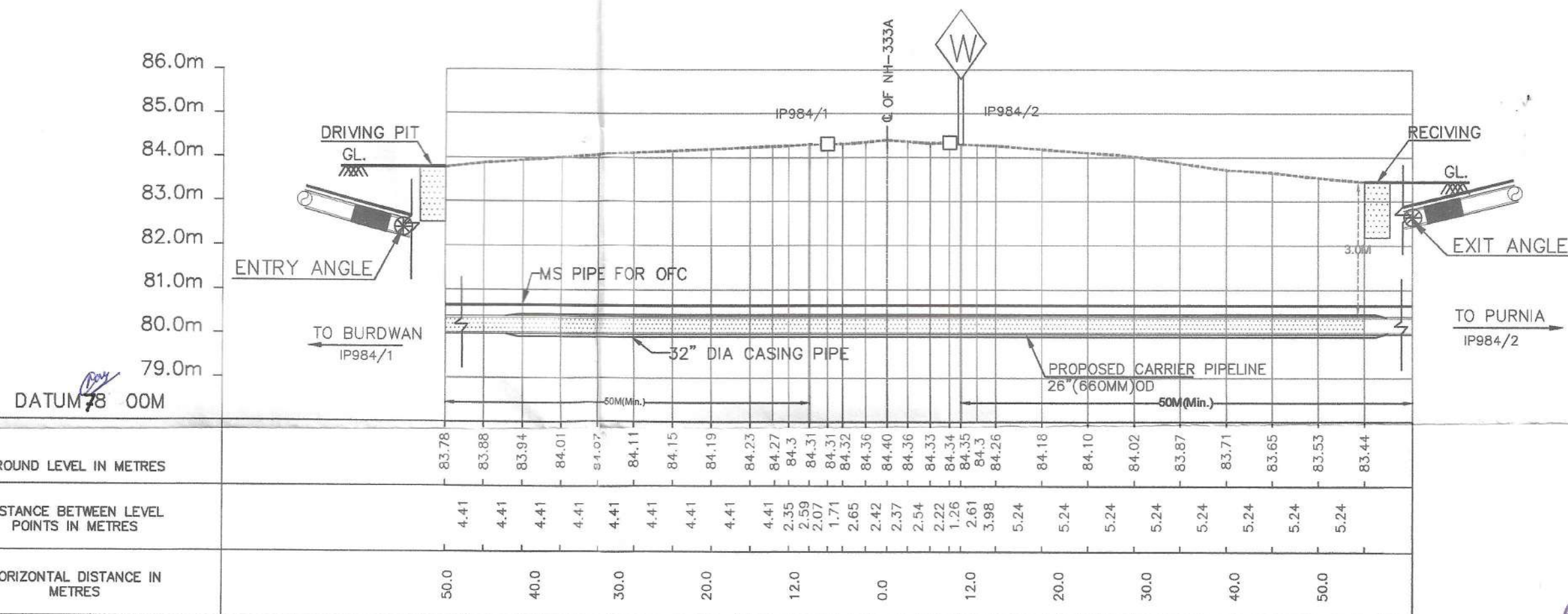
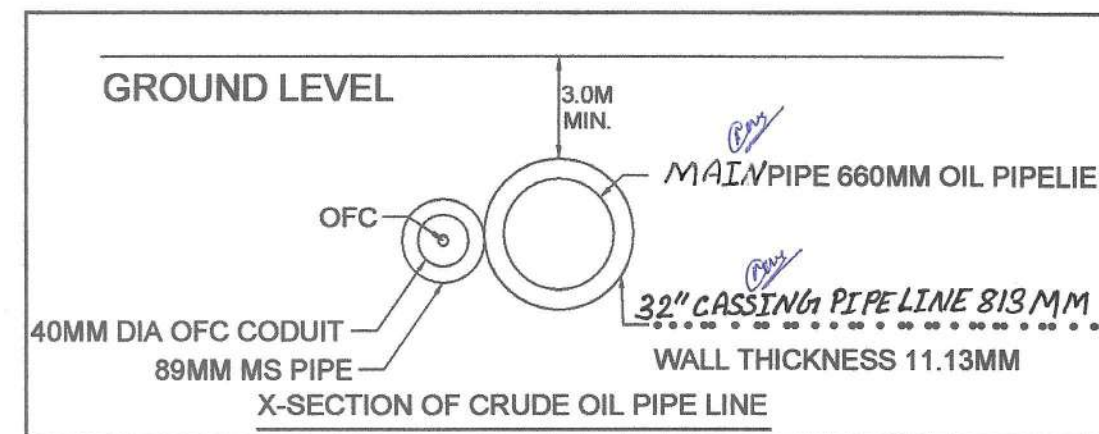
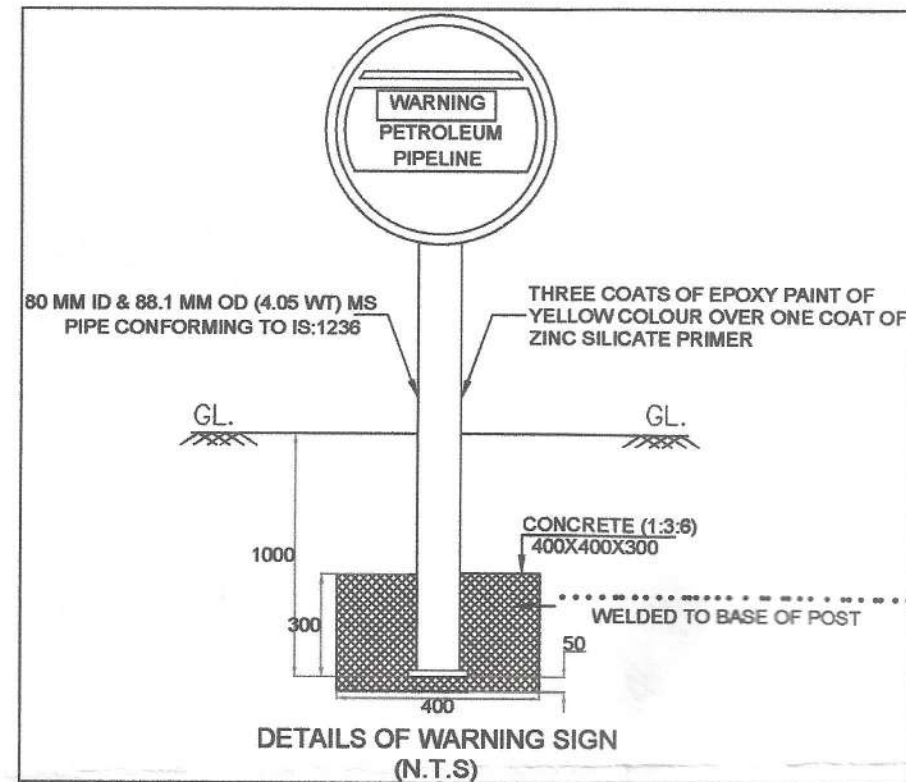
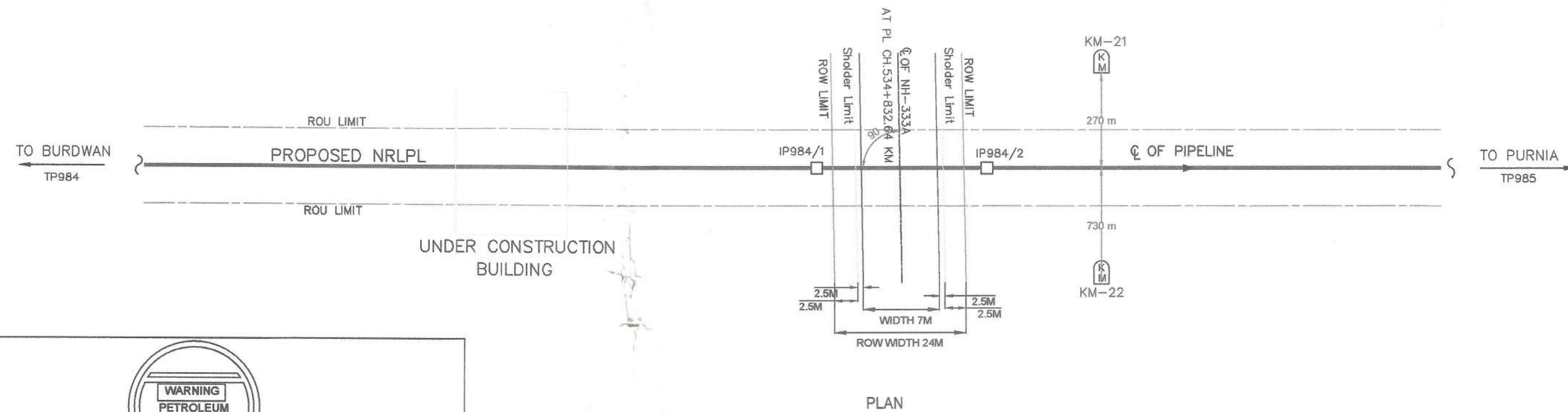
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JE

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24/9/21

*[Handwritten signature]* 21.10.21  
Executive Engineer,  
NH Division  
National Highway Division  
Deoghar





GROUND PROFILE

NAME OF CROSSING	VILLAGE	TEHSIL	CIRCLE	DISTRICT	STATE	PL CROSSING CHAINAGE IN METRES	NH CROSSING CHAINAGE
NH-333A	DALDALI	GODDA	Godda Highway Division	Godda	JHARKHAND	AT PL CH. 574+831.64M	AT CH. 21+270KM

## REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO
ROUTE MAP	DWG.NO.SKP/NRL/PSNPL/RM
ALIGNMENT SHEET	DWG.NO.SKP/NRL/PSNPL/ALN
KEY PLAN (NOT TO SCALE) CROSS SECTION OF NH-333A AT PL CH.574+831.64KM	

SR. NO.	PARTICULARS	DETAILS
1	Origin-Destination	Godda To Pakur
2	Nh Name As Per Authority	NH-333A
3	Nh Chainage(km)	CH: 21+270KM
4	Nearest TP or IP a) Before Crossing b) After Crossing	IP984/1 IP984/2
5	Crossing Angle	90°
6	ROW Width of Crossing in 'm'	24M
7	Crossing Control Point	E 529398.325 N 2742780.353

## NOTES:-

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE MENTIONED.
2. ALL LEVELS ARE WITH RESPECT TO MEAN SEA LEVEL.

REV	DATE	INITIAL	SIGN	INITIAL	SIGN	INITIAL	SIGN	SUB OF REV
0	30.04.21							
CLIENT		NUMALIGARH REFINERY LIMITED (A GOVT. OF INDIA ENTERPRISE) GUWAHATI-781 005						
SURVEYED & PREPARED BY		S.K.P. PROJECTS PVT. LTD. (A GOVT. OF INDIA ENTERPRISE) 201 - 205, Sri Samarth Complex, Near Maneja Crossing, Makarpura Road, Vadodara -390010. Phone = (0265) 6451501/2 Fax: (0265) 2641059 (AN ISO 9001:2015 CERTIFIED COMPANY)						
PROJECT		DETAILED ENGINEERING ROUTE SURVEY WORKS FOR PARADIPI TO NUMALIGARH CRUDE OIL PIPELINE						
DWG TITLE		CROSS SECTION						
DETAILS OF		NH-333A CROSSING AT PL CH.574+831.64KM						
SCALE		DRAWING NO.						
HOR 1:500 VER 1:100		DWG.NO.SKP/NRL/PSNPL/CS-01						

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christinbasti  
Guwahati-781005





NUMALIGARH  
REFINERY  
LIMITED  
A GOVERNMENT OF INDIA UNDERTAKING  
CIN : U11202AS1993GOI003893



Ref.No.NRLG/JH/C/025/126

Date: -04/02/2021

To,  
Executive Engineer,  
NH Division, Deoghar  
Jharkhand

**Sub: Permission for laying 26" Dia (660 mm) Crude Oil Pipeline along with Optic Fiber Cable through HAB Method across National Highway under your jurisdiction for proposed Paradip – Siliguri – Numaligarh Crude Oil Pipeline Project.**

Dear Sir,

Numaligarh Refinery Limited (NRL), a Government of India Enterprise, operates its 3.0 MMTPA Refinery at Numaligarh in the District of Golaghat, Assam since 2000. NRL is now embarking upon a mega project of capacity augmentation from present 3.0 MMTPA to 9.0 MMTPA. The required additional quantity of 6.0 MMTPA crude oil is to be imported through Paradip Port in Odisha and transported to its refinery by a cross country crude oil pipeline.

Government of India vide Ministry of Petroleum and Natural Gas (MOP&NG) Letter No. F. No. R-11023/01/2015 /-OR.I dated 28th January 2019 has approved the said project with a firm target of completion within 48 months.

The proposed 26-inch (660 mm) dia Crude Oil Pipeline along with 40 mm OFC duct / Cable from Paradip to Numaligarh will be crossing the following under your jurisdiction:

Sl. No.	Particulars	NRL's PL Chainage (Km)	NH Chainage (Km)	Location of crossing
1.	Pipeline laying across NH-133 Pirapainti to Godda Road)	628.900	14+115	Village – Dwarka Kita, Tehsil - Meherma & District - Godda in the State of Jharkhand.

Please reply to :

NRL Registered office, Project Pipeline Division, Numaligarh Refinery Limited, 122A, Christian Basti, G.S Road Guwahati – 781 005, Phone : 0361 220 3140, Telefax : (0361) 203146

**REFINERY OFFICE**

Pankagranti, P.O : Numaligarh Refinery Complex,  
Dist. : Golaghat, Assam, Pin – 785 699,  
Fax : 03776-265755,  
EPABX – 03776-265-593 / 594 / 413

**COORDINATION OFFICE**

Tolstoy House, 6<sup>th</sup> Floor, 15-17, Tolstoy Marg  
New Delhi – 110 001 (India)  
Phone : (011)23739411, 23739413  
Telefax : (011) 23739412  
E-mail : numaligarh@del2.vsnl.net.in

**KOLKATA OFFICE**

4<sup>th</sup> Floor, Bharat Bhawan, Plot No. 31, KIT Scheme No  
118 Prince Gulam Md. Shah  
Road, Gulf Green, Kolkata – 700 095  
Phone : (033) 24293054 / 3055  
Telefax : (033) 24293079  
E-mail : nrl@caltiger.com



**NUMALIGARH  
REFINERY  
LIMITED**

A GOVERNMENT OF INDIA UNDERTAKING

CIN : U11202AS1993GOI003893



The following documents are attached for your reference:

1. Checklist along with relevant drawing / documents as per MoRTH guidelines for obtaining crossing permission
2. Authorization granted by MOPNG for laying pipeline
3. Cross Section Drawing.
4. Typical Cross Section Drawing.
5. Construction Methodology.

We assure you that the crossings shall be designed as per latest safety standards by our Engineering Consultant, M/s EIL and the same shall be adhered to during construction activity. Accordingly, we also request you kindly intimate us any applicable Government Fees, security deposit, statutory charges etc. to be paid for issuance of your "NOC" for crossing the pipeline at the said locations.

It may mention here that the said project of NRL included under "National Infrastructure Pipeline" by Government of India and therefore, we request your kind cooperation in this regard to enable us to execute this mega project within Govt. of India approved timeline.

Thanking You,

For Numaligarh Refinery Limited,

**Monuj Kumar Pegu**  
**Chief General Manager (Project Pipeline)**

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christianbasti  
Guwahati-781005

Please reply to :

NRL Registered office, Project Pipeline Division, Numaligarh Refinery Limited, 122A, Christian Basti, G.S Road Guwahati – 781 005, Phone : 0361 220 3140, Telefax : (0361) 203146

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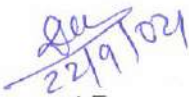



## SITE INSPECTION REPORT

Sub : Permission for laying 26" dia (660mm) Crude Oil pipeline along with optic fibre cable through HAB (Horizontal Augur Boring) method across National Highway No-133 at Km 14+115 Near Village-Dwarkakita, Tehsil-Mahagama, District- Godda, Jharkhand for proposed Paradip – Siliguri - Numaligarh Crude Oil Pipeline Project.

The Details are as under :

1. The proposed pipe laying 26" dia (660mm) with casing 32" dia (813mm) Crude oil pipeline site falls in rural stretch (plain).
2. The NH-133 is undivided carriageway width 7m and existing ROW 24m (Approx).
3. No toll plaza / check barrier / railway crossing is existed within the distance of 1000m from both sides of the access to the proposed Site.
4. No intersection/ Median openings are within the distance of 300m from both sides of the access to the Proposed Site.
5. The above proposed site fulfills all the requirements given in Ministry's guidelines quoted above.
6. Keeping in view of the conditions, the above proposal is recommended for kind approval.

  
J.E.  
N.H. Section  
Mahagama

  
A.E.  
N.H. Sub-Division  
Godda

### CHECK - LIST

Guidelines for Project Directors for processing the proposal for laying of Crude Oil Pipe Line in the land along/ Across National Expressway vested with NHAI /NH Division.

- Relevant circulars of Ministry of Road Transport and Highways

Circular No. NH-III/P/66/76 dated 18/19.11.1976

Circular No. RW/NH-III/P/66/76 dated 11.5.1982

Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993

Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995

Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999

Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003

Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Circular No. RW/NH-33044/29/2015/S&R (R) dated 20.06.2020

Check list for getting approval for laying of Gas Pipe Line on NH land (To be filled by the PIU)

The permission for laying of Oil Pipe Line shall be considered for approval / rejection based on the Ministry Circulars mentioned as above,

Carrying of sewage / **Oil pipelines** on highway Bridges shall not be permitted as Furmes / gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.

Services 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.

Guidelines for processing the proposal for laying of utility line in the land along National Highways vested with NHAI / PWD / BRO.

General Information		
1	Name and Address of the Applicant / Agency	Numaligarh Refinery Limited, Registered Office: 122A, Christian Basti, G.S. Road, Guwahati – 781005, Assam.
2	National Highway Number	NH-133 (Pirapainti to Godda Road)
3	State	Jharkhand
4	Location	14+115 Km of NH-133 in Village – Dwarka Kita, Tehsil – Meherma & District – Godda in the State of Jharkhand.
5	Chainage in km	Crossing of NH-133 at NH Km 14+115 Km
6	Length in Meters	24.00 Meters
7	Width of available ROW in both side	
8	(a) Left side from center line towards increasing chainage/ km direction	12.00 Meters
	(b) Right side from center line towards increasing chainage/ km direction	12.00 Meters
9	Name of Highway authority of NHAI / PWD / BRO	NH Division Deoghar
10	Highway Administration address	RO MoRTH RNCHI, JHARKHAND FOR NOC

C/S  
22/9/21  
DE (NH)

C/S  
24/9/21  
AE

C/S  
21.10.21  
Executive Engineer  
National Highway Division  
Deoghar

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christinbasti  
Guwahati-781005

Sr. No.	Item	Measurement observation as per site	MoRTH Norms	Weather complying MoRTH Norms (Y/N)
1	Details of already laid services, if any, along the proposed route	OFC	RW/NH-33044/29/2015/S & R (R) dated 22.11.2016 & 26 <sup>th</sup> June 2020	-
2	Whether up-gradation of the stretch in near future is proposed or not	Not	-do-	-
	(a) If yes, provision of utility adversely affect the plan of up-gradation	Not applicable	-do-	-
<b>3</b>	<b>Laying of the utility service along the National Highways.</b>			
3.1	Location of the proposed utility service along the stretch	Not applicable	-	-
3.2	Depth of top of utility service from ground level	Not applicable	-	-
3.3	Mechanism for crossing water channel	Not applicable	-	-
3.4	Whether ROW is restricted in this stretch?	Not applicable	-	-
3.4.1	If yes, whether provision of land acquisition is required to lay utility	Not applicable	-	-
	(a) If yes, whether undertaking for land acquisition along will relevant L.A. Details has been furnished	Not applicable	-	-
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts.	Not applicable	-	-
<b>4</b>	<b>Laying utility services across to N.H.</b>			
4.1	Whether Existing drainage structures is allowed to carry the utility lines.	No	-	-
4.2	Proposed crossing of utility service.	Crude OIL Pipeline & OFC	-do-	Yes
4.3	Type of casing pipe / conduit carrying the utility line.	26" dia Carrier Pipe in 32" Casing Steel Pipe	-do-	Yes
4.4	Whether ends of the casing / conduit pipe are sealed from the outside.	Yes	-do-	Yes
4.5	Length of casing / conduit pipe crossing N.H.	24.00 meters	-do-	Yes
4.6	Depth of top of the casing / conduit pipe.	Min 3.0 m	-do-	Yes

  
**Monuj Kumar Pegu**  
 Chief General Manager (Project-Pipeline)  
 Numaligarh Refinery Ltd.  
 122A, G.S. Road, Christinbasti  
 Guwahati-781005



4.7	Crossing method in case of CC pavement.	Trenchless method (Horizontal Boring Method)	-do-	Yes
4.8	Horizontal and vertical clearances in case utilities are allowed overhead.	NA	-	--
<b>5</b>	<b>Document/ Drawings enclosed with the proposal.</b>			
5.1	Cross-Section showing the size of trench for open trenching method	NA	-	-
	(a) Trench width	NA	-	-
	(b) Filling of trench	NA	-	-
	(c) Location of trench	NA	-	-
5.2	Cross - Section showing the size of pit and location of conduit for HDD method	Drawing Enclosed	-do-	Yes
5.3	Strip plan/ Route plan showing utility line, Chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Drawing Enclosed	-do-	Yes
5.4	Plan and profile drawing of stretch showing Cross - Section of road at 20 m distance along with ROW and Proposed utility.	NA	-	-
6	Methodology for laying of utility line	Enclosed	-do-	Yes
7	Draft license Agreement is as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/S&R (R) dated 22.11.2016 and signed by two witnesses	Enclosed	-do-	Yes
8	License fees in favor of MoRTH	Will be submitted as and when informed by NHAI	-do-	Yes
9	Whether Bank Guarantee has been obtained	Will be submitted as and when informed by NHAI	-do-	Yes
	(a) If yes, whether Confirmation of BG has been obtained as per MoRTH / NHAI guidelines.	Will be submitted as and when informed by NHAI	-do-	Yes
<b>10</b>	<b>Affidavit / Undertaking from the Applicant for the following is to be furnished</b>			
10.1	Undertaking for not to Damage to other existing utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Enclosed	Enclosed	Yes

  
 Monuj Kumar Pegu  
 Chief General Manager (Project-Pipeline)  
 Numaligarh Refinery Ltd.  
 122A, G.S. Road, Christianbasti

10.2	Undertaking for Renewal of Bank Guarantees and when asked by NHAI / MoRTH.	Enclosed	Enclosed	Yes
10.3	Undertaking for Confirming all standard condition of MoRTH / NHAI guidelines.	Enclosed	Enclosed	Yes
10.4	Undertaking for Shifting of utility as and when asked by MoRTH / NHAI within a month at their own cost.	Enclosed	Enclosed	Yes
10.5	Undertaking for indemnity against all damages and claims	Enclosed	Enclosed	Yes
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed	Enclosed	Yes
10.7	Undertaking that If any claim is raised by the Concessionaire / contractor then the same has to be paid by the applicant.	Enclosed	Enclosed	Yes
10.8	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Enclosed	Enclosed	Yes

The Right of the way (ROW) of the National Highway available at the proposed location from the center line of divided carriageway is 12.00 m at RHS and 12.00 m at LHS towards increasing chainage of NH (From center of ROW to edge of ROW towards proposed utility).

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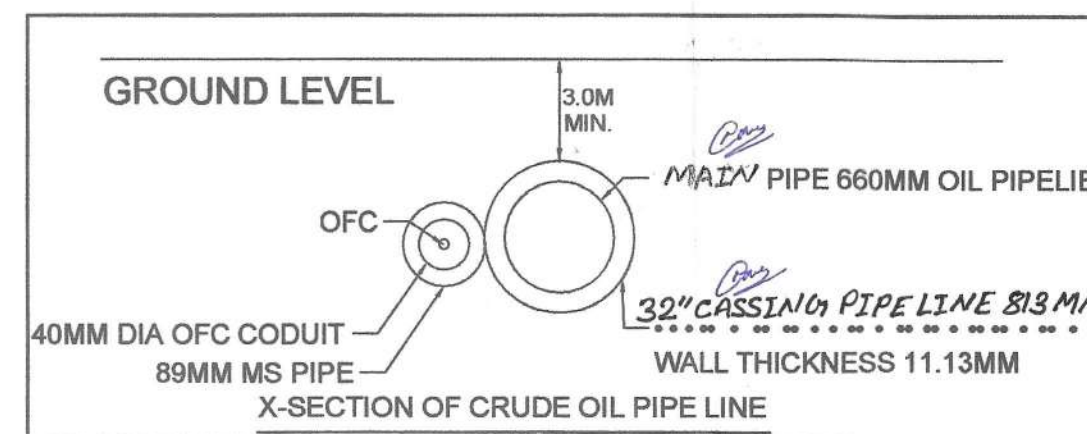
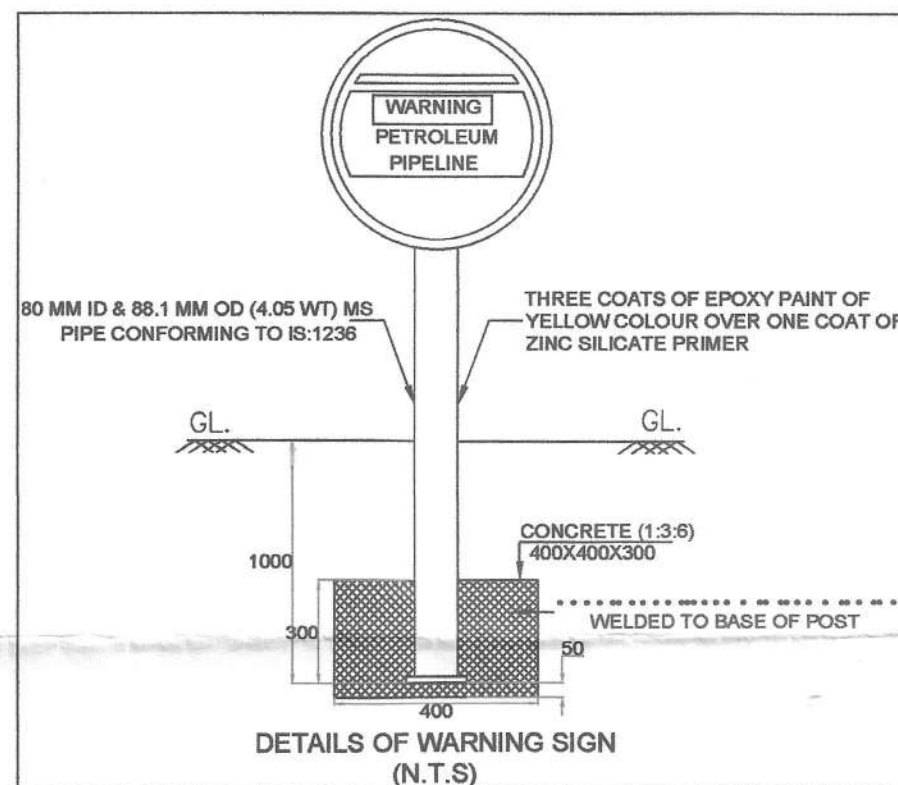
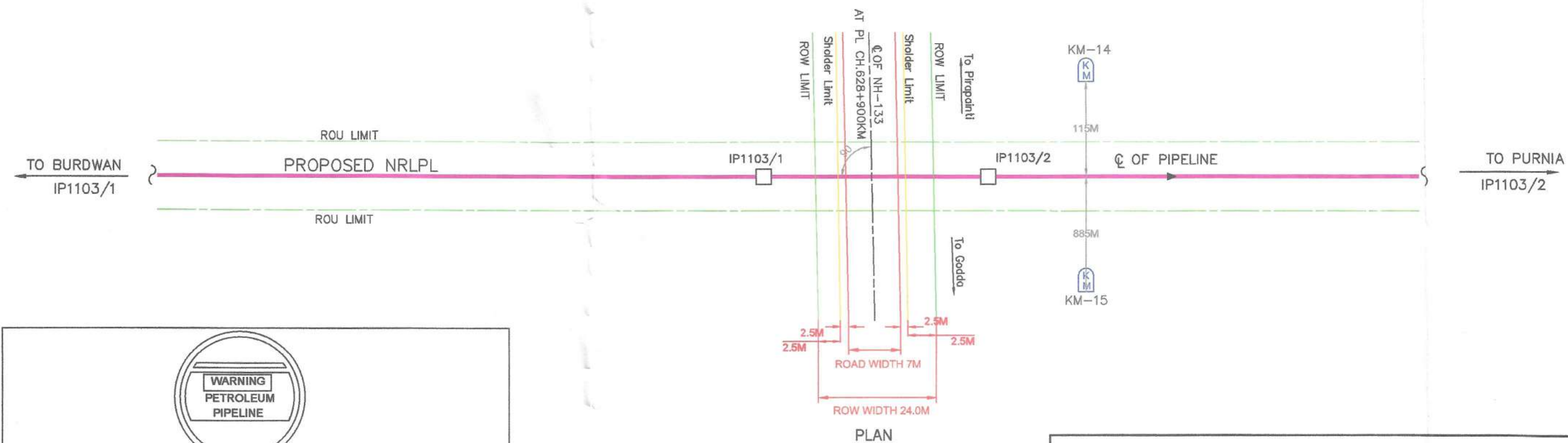
  
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CIS  
 22/9/21  
 2E(NM)

CB  
 24/9/21  
 AE

  
**Executive Engineer,**  
**NH Division**  
**National Highway Division**  
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**Ref.No.NRLG/JH/C/025/125**
**Date: 02.03.2021**

To,  
Executive Engineer,  
NH Division, Deoghar,  
Jharkhand.

**Sub: Permission for laying 26" Dia (660 mm) Crude Oil Pipeline along with Optic Fiber Cable through HAB Method across National Highway under your jurisdiction for proposed Paradip – Siliguri – Numaligarh Crude Oil Pipeline Project.**

Dear Sir,

Numaligarh Refinery Limited (NRL), a Government of India Enterprise, operates its 3.0 MMTPA Refinery at Numaligarh in the District of Golaghat, Assam since 2000. NRL is now embarking upon a mega project of capacity augmentation from present 3.0 MMTPA to 9.0 MMTPA. The required additional quantity of 6.0 MMTPA crude oil is to be imported through Paradip Port in Odisha and transported to its refinery by a cross country crude oil pipeline.

Government of India vide Ministry of Petroleum and Natural Gas (MOP&NG) Letter No. F. No. R-11023/01/2015 /-OR.I dated 28th January 2019 has approved the said project with a firm target of completion within 48 months.

The proposed 26-inch (660 mm) dia Crude Oil Pipeline along with 40 mm OFC duct / Cable from Paradip to Numaligarh will be crossing the following under your jurisdiction:

Sl. No.	Particulars	NRL's PL Chainage (Km)	NH Chainage (Km)	Location of crossing
1.	Pipeline laying across NH-133 (Godda to Pirapainti Road)	603.830	42+927	Village – Ghat Gamariya, Tehsil – Mahgama & District – Godda in the State of Jharkhand.

Please reply to :

NRL Registered office, Project Pipeline Division, Numaligarh Refinery Limited, 122A, Christian Basti, G.S Road Guwahati – 781 005, Phone : 0361 220 3140, Telefax : (0361) 203146

**REFINERY OFFICE**

Pankagranti, P.O. : Numaligarh Refinery Complex,  
Dist. : Golaghat, Assam, Pin – 785 699,  
Fax : 03776-265755,  
EPABX – 03776-265-593 / 594 / 413

**COORDINATION OFFICE**

Tolstoy House, 6<sup>th</sup> Floor, 15-17, Tolstoy Marg  
New Delhi – 110 001 (India)  
Phone : (011)23739411, 23739413  
Telefax : (011) 23739412  
E-mail : numaligarh@del2.vsnl.net.in

**KOLKATA OFFICE**

4<sup>th</sup> Floor, Bharat Bhawan, Plot No. 31, KIT Scheme No  
118 Prince Gulam Md. Shah  
Road, Gulf Green, Kolkata – 700 095  
Phone : (033) 24293054 / 3055  
Telefax : (033) 24293079  
E-mail : nri@caltiger.com



**NUMALIGARH  
REFINERY  
LIMITED**

A GOVERNMENT OF INDIA UNDERTAKING

CIN : U11202AS1993GOI003893



The following documents are attached for your reference:

1. Checklist along with relevant drawing / documents as per MoRTH guidelines for obtaining crossing permission
2. Authorization granted by MOPNG for laying pipeline
3. Cross Section Drawing.
4. Typical Cross Section Drawing.
5. Construction Methodology.

We assure you that the crossings shall be designed as per latest safety standards by our Engineering Consultant, M/s EIL and the same shall be adhered to during construction activity. Accordingly, we also request you kindly intimate us any applicable Government Fees, security deposit, statutory charges etc. to be paid for issuance of your "NOC" for crossing the pipeline at the said locations.

It may mention here that the said project of NRL included under "National Infrastructure Pipeline" by Government of India and therefore, we request your kind cooperation in this regard to enable us to execute this mega project within Govt. of India approved timeline.

Thanking You,

**For Numaligarh Refinery Limited,**

**Monuj Kumar Pegu  
Chief General Manager (Project Pipeline)**

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christianbasti  
Guwahati-781005

Please reply to :

NRL Registered office, Project Pipeline Division, Numaligarh Refinery Limited, 122A, Christian Basti, G.S Road Guwahati – 781 005, Phone : 0361 220 3140, Telefax : (0361) 203146

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E-mail : nri@caltiger.com

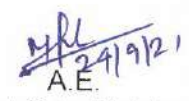
## SITE INSPECTION REPORT

Sub : Permission for laying 26" dia (660mm) Crude Oil pipeline along with optic fibre cable through HAB (Horizontal Agour Boring) method across National Highway No-133 at Km 42+927 Near Village-Ghat Gamariya, Tehsil-Mahagama, District- Godda, Jharkhand for proposed Paradip – Siliguri - Numaligarh Crude Oil Pipeline Project.

The Details are as under :

1. The proposed pipe laying 26" dia (660mm) with casing 32" dia (813mm) Crude oil pipeline site falls in rural stretch (plain).
2. The NH-133 is undivided carriageway width 7m and existing ROW 24m (Approx).
3. No toll plaza / check barrier / railway crossing is existed within the distance of 1000m from both sides of the access to the proposed Site.
4. No intersection/ Median openings are within the distance of 300m from both sides of the access to the Proposed Site.
5. The above proposed site fulfills all the requirements given in Ministry's guidelines quoted above.
6. Keeping in view of the conditions, the above proposal is recommended for kind approval.

  
J.E.  
N.H. Section  
Mahagama

  
A.E.  
N.H. Sub-Division  
Godda



### CHECK - LIST

Guidelines for Project Directors for processing the proposal for laying of Crude Oil Pipe Line in the land along/ Across National Expressway vested with NHAI /NH Division.

- Relevant circulars of Ministry of Road Transport and Highways

Circular No. NH-III/P/66/76 dated 18/19.11.1976

Circular No. RW/NH-III/P/66/76 dated 11.5.1982

Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993

Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995

Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999

Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003

Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Circular No. RW/NH-33044/29/2015/S&R (R) dated 20.06.2020

Check list for getting approval for laying of Gas Pipe Line on NH land (To be filled by the PIU)

The permission for laying of Oil Pipe Line shall be considered for approval / rejection based on the Ministry Circulars mentioned as above,

Carrying of sewage / Oil 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.

Services 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.

Guidelines for processing the proposal for laying of utility line in the land along National Highways vested with NHAI / PWD / BRO.

General Information		
1	Name and Address of the Applicant / Agency	Numaligarh Refinery Limited, Registered Office: 122A, Christian Basti, G.S. Road, Guwahati – 781005, Assam.
2	National Highway Number	NH-133 (Godda to Pirapainti Road)
3	State	Jharkhand
4	Location	42+927 Km of NH-133 in Village – Ghat Gamriya, Tehsil – Mahagama & District – Godda in the State of Jharkhand.
5	Chainage in km	Crossing of NH-133 at NH Km 42+927 Km
6	Length in Meters	24.00 Meters
7	Width of available ROW in both side	
8	(a) Left side from center line towards increasing chainage/ km direction	12.00 Meters
	(b) Right side from center line towards increasing chainage/ km direction	12.00 Meters
9	Name of Highway authority of NHAI / PWD / BRO	NH Division Deoghar
10	Highway Administration address	RO MoRTH RNCHI, JHARKHAND FOR NOC


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CS  
MR  
24/9/21  
AE

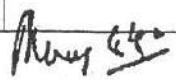
CS  
MR  
01.10.21  
Executive Engineer  
National Highway Division  
Deoghar

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christianbasti  
Guwahati-781005

Sr. No.	Item	Measurement observation as per site	MoRTH Norms	Weather complying MoRTH Norms (Y/N)
1	Details of already laid services, if any, along the proposed route	OFC	RW/NH-33044/29/2015/S & R (R) dated 22.11.2016 & 26 <sup>th</sup> June 2020	-
2	Whether up-gradation of the stretch in near future is proposed or not	Not	-do-	-
	(a) If yes, provision of utility adversely affect the plan of up-gradation	Not applicable	-do-	-
<b>3</b>	<b>Laying of the utility service along the National Highways.</b>			
3.1	Location of the proposed utility service along the stretch	Not applicable	-	-
3.2	Depth of top of utility service from ground level	Not applicable	-	-
3.3	Mechanism for crossing water channel	Not applicable	-	-
3.4	Whether ROW is restricted in this stretch?	Not applicable	-	-
3.4.1	If yes, whether provision of land acquisition is required to lay utility	Not applicable	-	-
	(a) If yes, whether undertaking for land acquisition along will relevant L.A. Details has been furnished	Not applicable	-	-
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts.	Not applicable	-	-
<b>4</b>	<b>Laying utility services across to N.H.</b>			
4.1	Whether Existing drainage structures is allowed to carry the utility lines.	No	-	-
4.2	Proposed crossing of utility service.	Crude OIL Pipeline & OFC	-do-	Yes
4.3	Type of casing pipe / conduit carrying the utility line.	26" dia Carrier Pipe in 32" Casing Steel Pipe	-do-	Yes
4.4	Whether ends of the casing / conduit pipe are sealed from the outside.	Yes	-do-	Yes
4.5	Length of casing / conduit pipe crossing N.H.	24.00 meters	-do-	Yes
4.6	Depth of top of the casing / conduit pipe.	Min 3.0 m <i>Ray</i>	-do-	Yes

  
**Monuj Kumar Pegu**  
 Chief General Manager (Project-Pipeline)  
 Numaligarh Refinery Ltd.  
 122A, G.S. Road, Christinbasti  
 Guwahati-781005

4.7	Crossing method in case of CC pavement.	Trenchless method (Horizontal Boring Method)	-do-	Yes
4.8	Horizontal and vertical clearances in case utilities are allowed overhead.	NA	-	--
5	<b>Document/ Drawings enclosed with the proposal.</b>			
5.1	Cross-Section showing the size of trench for open trenching method	NA	-	-
	(a) Trench width	NA	-	-
	(b) Filling of trench	NA	-	-
	(c) Location of trench	NA	-	-
5.2	Cross - Section showing the size of pit and location of conduit for HDD method	Drawing Enclosed	-do-	Yes
5.3	Strip plan/ Route plan showing utility line, Chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Drawing Enclosed	-do-	Yes
5.4	Plan and profile drawing of stretch showing Cross - Section of road at 20 m distance along with ROW and Proposed utility.	NA	-	-
6	Methodology for laying of utility line	Enclosed	-do-	Yes
7	Draft license Agreement is as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/S&R (R) dated 22.11.2016 and signed by two witnesses	Enclosed	-do-	Yes
8	License fees in favor of MoRTH	Will be submitted as and when informed by NHA	-do-	Yes
9	Whether Bank Guarantee has been obtained	Will be submitted as and when informed by NHA	-do-	Yes
	(a) If yes, whether Confirmation of BG has been obtained as per MoRTH / NHA guidelines.	Will be submitted as and when informed by NHA	-do-	Yes
10	<b>Affidavit / Undertaking from the Applicant for the following is to be furnished</b>			
10.1	Undertaking for not to Damage to other existing utility, if damaged then to pay the losses either to NHA or to the concerned agency.	Enclosed	Enclosed	Yes

  
 Monuj Kumar Pegu  
 Chief General Manager (Project-Pipeline)  
 Numaligarh Refinery Ltd.  
 122A, G.S. Road, Christinbasti

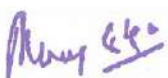



10.2	Undertaking for Renewal of Bank Guarantees and when asked by NHAI / MoRTH.	Enclosed	Enclosed	Yes
10.3	Undertaking for Confirming all standard condition of MoRTH / NHAI guidelines.	Enclosed	Enclosed	Yes
10.4	Undertaking for Shifting of utility as and when asked by MoRTH / NHAI within a month at their own cost.	Enclosed	Enclosed	Yes
10.5	Undertaking for indemnity against all damages and claims	Enclosed	Enclosed	Yes
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed	Enclosed	Yes
10.7	Undertaking that If any claim is raised by the Concessionaire / contractor then the same has to be paid by the applicant.	Enclosed	Enclosed	Yes
10.8	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Enclosed	Enclosed	Yes


The Right of the way (ROW) of the National Highway available at the proposed location from the center line of divided carriageway is 12.00 m at RHS and 12.00 m at LHS towards increasing chainage of NH (From center of ROW to edge of ROW towards proposed utility).

The above particulars along with the drawings and documents have been verified and certified as correct as per prevailing site conditions.

Verified by

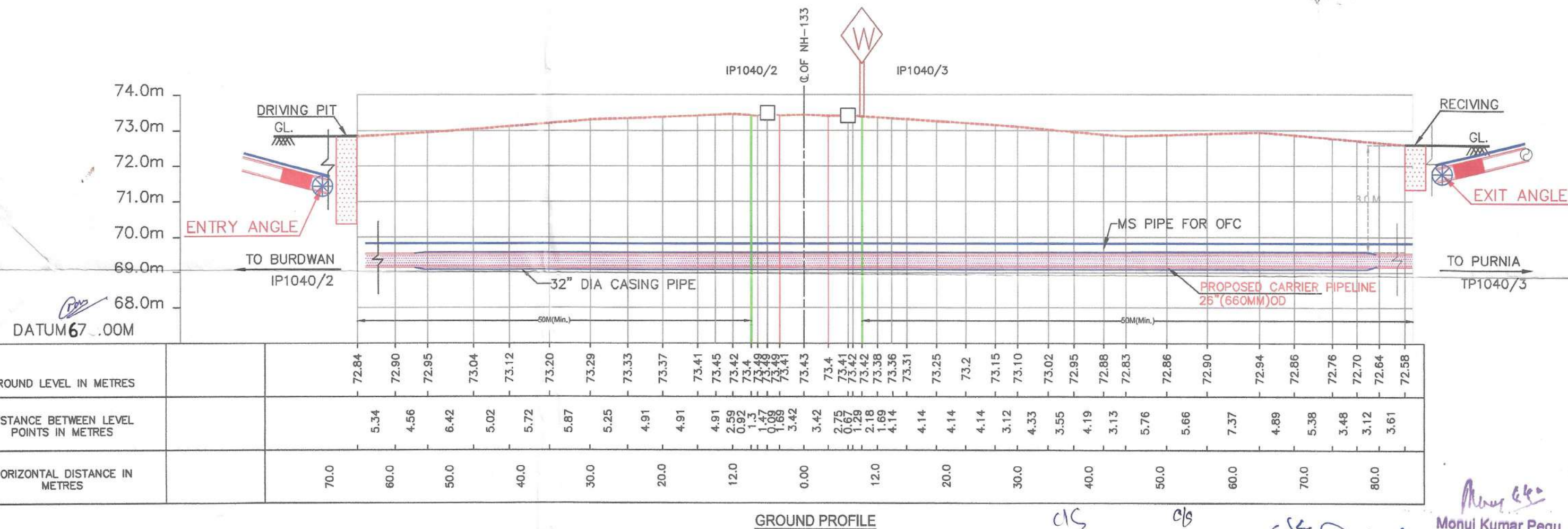
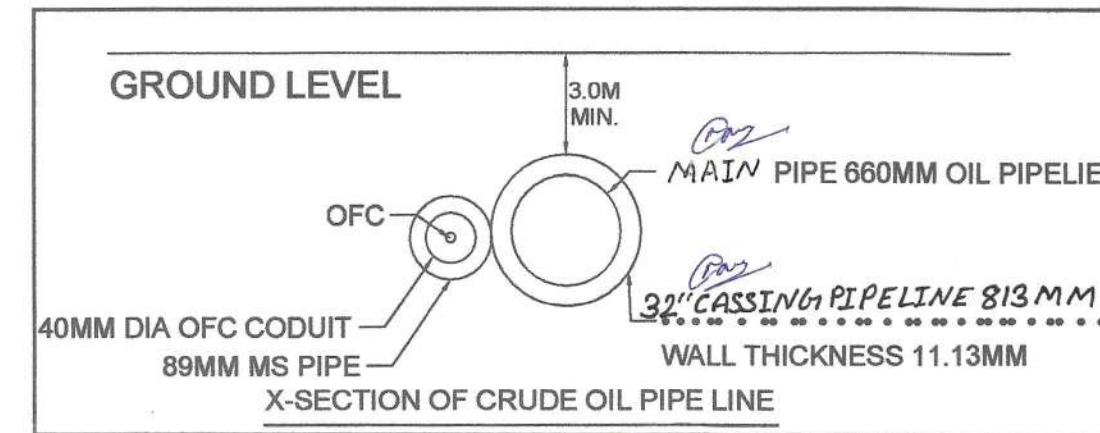
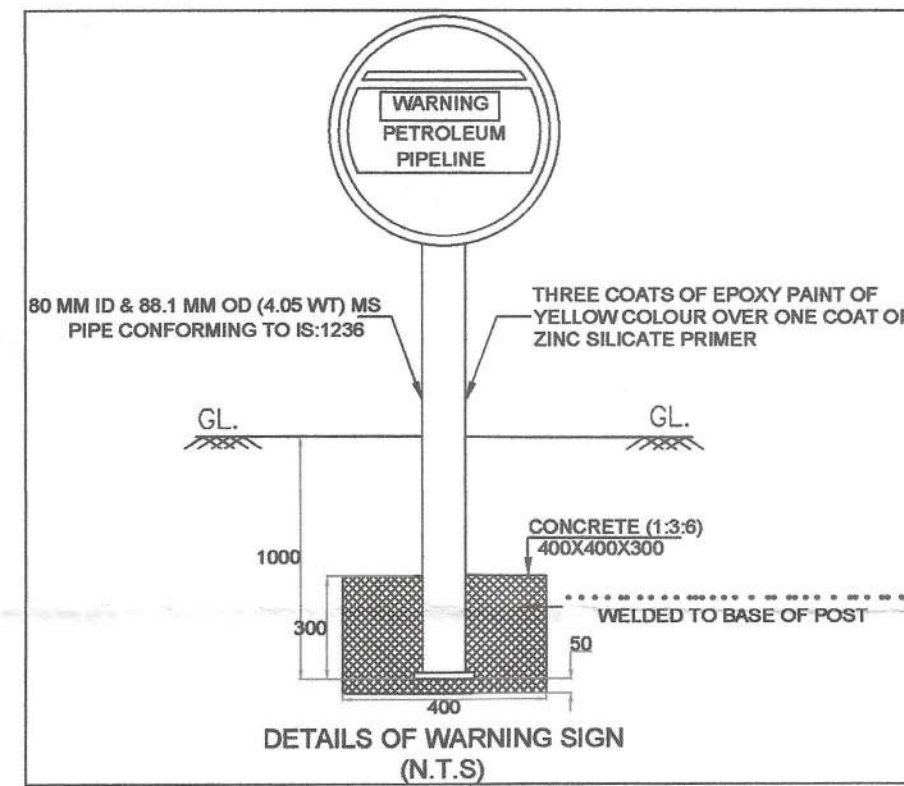
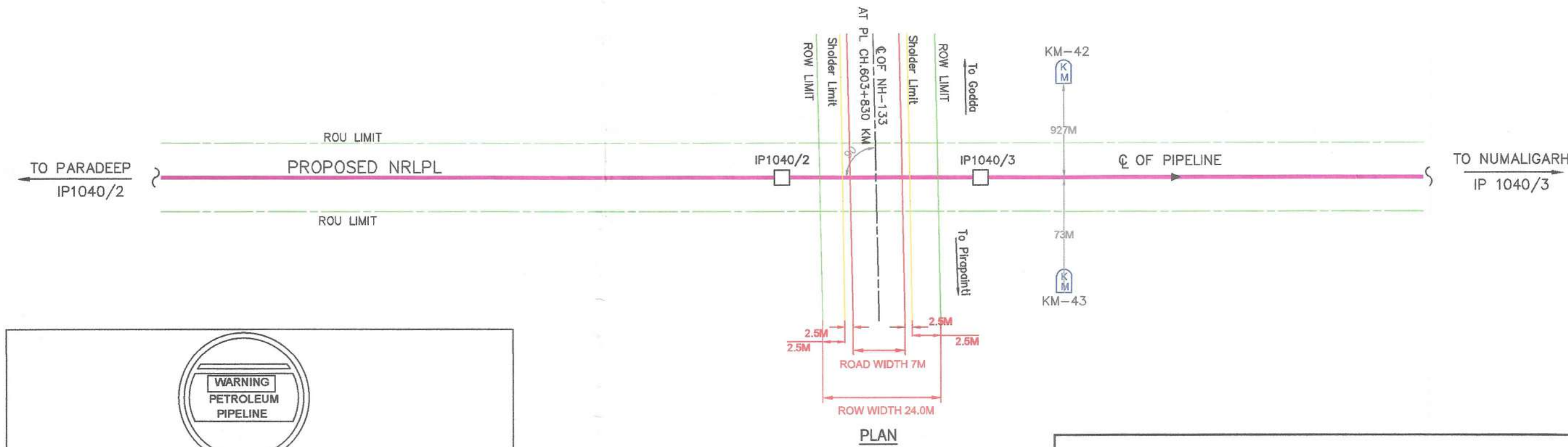
  
**Monuj Kumar Pegu**  
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 Guwahati-781005

C/S  
  
 22/9/21  
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**Executive Engineer,**  
**NH Division**  
**National Highway Division**  
**Deoghar**

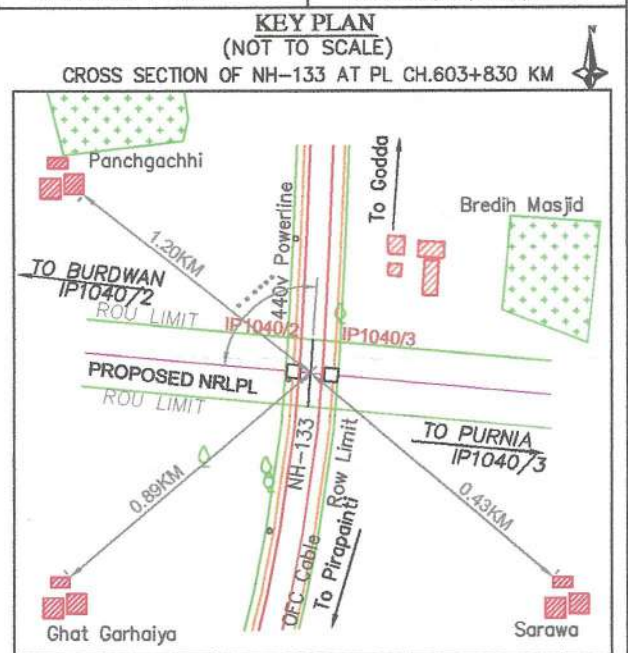




NAME OF CROSSING	VILLAGE	TEHSIL	CIRCEL	DISTRICT	STATE	PL CROSSING CHAINAGE IN METRES	NH CROSSING CHAINAGE
NH-133	GHAT GAMARIYA	MAHGAMA	MAHGAMA	GODDA	JHARKHAND	AT PL CH.603+830KM	AT CH.42+927KM

## REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO
ROUTE MAP	DWG.NO.SKP/NRL/NRLPL/RM-6
ALIGNMENT SHEET	DWG.NO.SKP/NRL/PSNPL/ALN-81



SR. NO.	PARTICULARS	DETAILS
1	Origin-Destination	To Godda To Pirapanti
2	NH Name As Per Authority	NH-133
3	Chainage (km)	42+927
4	Nearest TP or IP a) Before Crossing b) After Crossing	IP1040/2 IP1040/3
5	Crossing Angle	90°
6	ROW Width of Crossing in 'm'	24M
7	Crossing Control Point	E 529960.402 N 2762286.377

## NOTES:-

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE MENTIONED.
- ALL LEVELS ARE WITH RESPECT TO MEAN SEA LEVEL.

REV	DATE	INITIAL	REVISION	INITIAL	REVISION	INITIAL	REVISION	SUB OF REV
0	30.04.21							
CLIENT								
NUMALIGARH REFINERY LIMITED (A GOVT. OF INDIA ENTERPRISE) GUWAHATI - 781 005								
SURVEYED & PREPARED BY								
S.K.P. PROJECTS PVT. LTD. 201 - 205, Sri Samarth Complex, Near Manoj Crossing, Makarpura Road, Vadodra - 390010. Phone = (0265) 6451501/2 Fax: (0265) 2641059 (AN ISO 9001:2015 CERTIFIED COMPANY)								
PROJECT								
DETAILED ENGINEERING ROUTE SURVEY WORKS FOR PARADIP TO NUMALIGARH CRUDE OIL PIPELINE								
DWG TITLE								
CROSS SECTION								
DETAILS OF								
NH-133 CROSSING AT PL CH.603+830KM								
SCALE								
DRAWING NO.								
DWG.NO.SKP/NRL/PSNPLCS-03								

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christinbasti  
Guwahati-781005

Executive Engineer  
National Highway Division  
Daghar





Ref.No.NRLG/JH/C/025/127

Date: 04.02.2021

To,  
Executive Engineer,  
NH Division, Deoghar,  
Jharkhand.

**Sub: Permission for laying 26" Dia (660 mm) Crude Oil Pipeline along with Optic Fiber Cable through HAB Method across National Highway under your jurisdiction for proposed Paradip – Siliguri – Numaligarh Crude Oil Pipeline Project.**

Dear Sir,

Numaligarh Refinery Limited (NRL), a Government of India Enterprise, operates its 3.0 MMTPA Refinery at Numaligarh in the District of Golaghat, Assam since 2000. NRL is now embarking upon a mega project of capacity augmentation from present 3.0 MMTPA to 9.0 MMTPA. The required additional quantity of 6.0 MMTPA crude oil is to be imported through Paradip Port in Odisha and transported to its refinery by a cross country crude oil pipeline.

Government of India vide Ministry of Petroleum and Natural Gas (MOP&NG) Letter No. F. No. 11023/01/2015 /-OR.I dated 28th January 2019 has approved the said project with a firm target of completion within 48 months.

The proposed 26-inch (660 mm) dia Crude Oil Pipeline along with 40 mm OFC duct / Cable from Paradip to Numaligarh will be crossing the following under your jurisdiction:

Sl. No.	Particulars	NRL's PL Chainage (Km)	NH Chainage (Km)	Location of crossing
1.	Pipeline laying across NH-114A (Dumka to Rampur Hat Road)	510.918	38+745	Village – Pokharia, Tehsil – Shikaripara & District – Dumka in the State of Jharkhand.

Please reply to :

NRL Registered office ,Project Pipeline Division, Numaligarh Refinery Limited,122A ,Christian Basti, G.S Road Guwahati – 781 005, Phone : 0361 220 3140,Telefax : (0361) 203146

**REFINERY OFFICE**

Pankagranti, P.O : Numaligarh Refinery Complex,  
Dist. : Golaghat, Assam, Pin – 785 689,  
Fax : 03776-265755,  
EPABX – 03776-265-593 / 594 / 413

**COORDINATION OFFICE**

Tolstoy House, 6<sup>th</sup> Floor, 15-17, Tolstoy Marg  
New Delhi – 110 001 (India)  
Phone : (011)23739411, 23739413  
Telefax : (011) 23739412  
E-mail : numaligarh@del2.vsnl.net.in

**KOLKATA OFFICE**

4<sup>th</sup> Floor, Bharat Bhawan, Plot No. 31, KIT Scheme No  
118 Prince Gulam Md. Shah  
Road, Gulf Green, Kolkata – 700 095  
Phone : (033) 24293054 / 3055  
Telefax : (033) 24293079  
E-mail : nrl@caltiger.com



**NUMALIGARH  
REFINERY  
LIMITED**



**A GOVERNMENT OF INDIA UNDERTAKING**

**CIN : U11202AS1993GOI003893**

The following documents are attached for your reference:

1. Checklist along with relevant drawing / documents as per MoRTH guidelines for obtaining crossing permission
2. Authorization granted by MOPNG for laying pipeline
3. Cross Section Drawing.
4. Typical Cross Section Drawing.
5. Construction Methodology.

We assure you that the crossings shall be designed as per latest safety standards by our Engineering Consultant, M/s EIL and the same shall be adhered to during construction activity. Accordingly, we also request you kindly intimate us any applicable Government Fees, security deposit, statutory charges etc. to be paid for issuance of your "NOC" for crossing the pipeline at the said locations.

It may mention here that the said project of NRL included under "National Infrastructure Pipeline" by Government of India and therefore, we request your kind cooperation in this regard to enable us to execute this mega project within Govt. of India approved timeline.

Thanking You,

**For Numaligarh Refinery Limited,**

  
**Monuj Kumar Pegu**

**Chief General Manager (Project Pipeline)**

*Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christianbasti  
Guwahati-781005*

Please reply to :

NRL Registered office ,Project Pipeline Division, Numaligarh Refinery Limited,122A ,Christian Basti, G.S Road Guwahati – 781 005, Phone : 0361 220 3140,Telefax : (0361) 203146

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Telefax : (011) 23739412  
E-mail : numaligarh@del2.vsnl.net.in

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118 Prince Gulam Md. Shah  
Road, Gulf Green, Kolkata – 700 095  
Phone : (033) 24293054 / 3055  
Telefax : (033) 24293079  
E-mail : nrl@calltiger.com




## SITE INSPECTION REPORT

Sub : Permission for laying 26" dia (660mm) Crude Oil pipeline along with optic fibre cable through HAB (Horizontal Agour Boring) method across National Highway No-114A at Km 38+745 Near Village-Pokharia, Tehsil-Shikaripara, District- Dumka, Jharkhand.

### The Details are as under :

1. The proposed pipeline laying 26" dia (660mm) with casing 32"Dia (813mm) Crude oil pipeline site falls in rural stretch (plain).
2. The NH-114A is undivided carriageway width 7m and existing ROW 24m (Approx).
3. No toll plaza / check barrier / railway crossing is existed within the distance of 1000m from both sides of the access to the proposed Site.
4. No intersection/ Median openings are within the distance of 300m from both sides of the access to the Proposed Site.
5. The above proposed site fulfills all the requirements given in Ministry's guidelines quoted above.
6. Keeping in view of the conditions, the above proposal is recommended for kind approval.

  
J.E.  
N.H. Section  
Shikaripara

  
A.E.  
N.H. Sub-Division  
Dumka

### CHECK - LIST

Guidelines for Project Directors for processing the proposal for laying of Crude Oil Pipe Line in the land along/ Across National Expressway vested with NHAI /NH Division.

- Relevant circulars of Ministry of Road Transport and Highways

Circular No. NH-III/P/66/76 dated 18/19.11.1976

Circular No. RW/NH-III/P/66/76 dated 11.5.1982

Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993

Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995

Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999

Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003

Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Circular No. RW/NH-33044/29/2015/S&R (R) dated 20.06.2020

Check list for getting approval for laying of Gas Pipe Line on NH land (To be filled by the PIU)

The permission for laying of Oil Pipe Line shall be considered for approval / rejection based on the Ministry Circulars mentioned as above,

Carrying of sewage / Oil pipelines on highway Bridges shall not be permitted as Furmes / gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.

Services 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.

Guidelines for processing the proposal for laying of utility line in the land along National Highways vested with NHAI / PWD / BRO.

General Information		
1	Name and Address of the Applicant / Agency	Numaligarh Refinery Limited, Registered Office: 122A, Christian Basti, G.S. Road, Guwahati – 781005, Assam.
2	National Highway Number	NH-114A (Dumka to Rampur Hat Road)
3	State	Jharkhand
4	Location	38+745 Km of NH-114A in Village – Pokharia, Tehsil – Shikaripara & District – Dumka in the State of Jharkhand.
5	Chainage in km	Crossing of NH-114A at NH Km 38+745 Km
6	Length in Meters	24.00 Meters
7	Width of available ROW in both side	Laying of Pipeline both side Row width up to 2m
8	(a) Left side from center line towards increasing chainage/ km direction	12.00 Meters
	(b) Right side from center line towards increasing chainage/ km direction	12.00 Meters
9	Name of Highway authority of NHAI / PWD / BRO	NH Division
10	Highway Administration address	RO MoRTH RNCHI, JHARKHAND FOR NOC

*Abhaskar*  
04/10/2024

c/s

*Monuj*

*30.10.24*  
Executive Engineer  
National Highway Division  
Dumka

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christinbasti  
Guwahati-781005



Sr. No.	Item	Measurement observation as per site	MoRTH Norms	Weather complying MoRTH Norms (Y/N)
1	Details of already laid services, if any, along the proposed route	OFC	RW/NH-33044/29/2015/S & R (R) dated 22.11.2016 & 26 <sup>th</sup> June 2020	-
2	Whether up-gradation of the stretch in near future is proposed or not	Not	-do-	-
	(a) If yes, provision of utility adversely affect the plan of up-gradation	Not applicable	-do-	-
<b>3</b>	<b>Laying of the utility service along the National Highways.</b>			
3.1	Location of the proposed utility service along the stretch	Not applicable	-	-
3.2	Depth of top of utility service from ground level	Not applicable	-	-
3.3	Mechanism for crossing water channel	Not applicable	-	-
3.4	Whether ROW is restricted in this stretch?	Not applicable	-	-
3.4.1	If yes, whether provision of land acquisition is required to lay utility	Not applicable	-	-
	(a) If yes, whether undertaking for land acquisition along will relevant L.A. Details has been furnished	Not applicable	-	-
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts.	Not applicable	-	-
<b>4</b>	<b>Laying utility services across to N.H.</b>			
4.1	Whether Existing drainage structures is allowed to carry the utility lines.	No	-	-
4.2	Proposed crossing of utility service.	Crude OIL Pipeline & OFC	-do-	Yes
4.3	Type of casing pipe / conduit carrying the utility line.	26" dia Carrier Pipe in 32" Casing Steel Pipe	-do-	Yes
4.4	Whether ends of the casing / conduit pipe are sealed from the outside.	Yes	-do-	Yes
4.5	Length of casing / conduit pipe crossing N.H.	24.00 meters	-do-	Yes
4.6	Depth of top of the casing / conduit pipe.	Min 30 m	-do-	Yes

*Monuj Kumar Pegu*

Monuj Kumar Pegu  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
122A, G.S. Road, Christinbasti  
Guwahati-781005

4.7	Crossing method in case of CC pavement.	Trenchless method (Horizontal Boring Method)	-do-	Yes
4.8	Horizontal and vertical clearances in case utilities are allowed overhead.	NA	-	--
<b>5</b>	<b>Document/ Drawings enclosed with the proposal.</b>			
5.1	Cross-Section showing the size of trench for open trenching method	NA	-	-
	(a) Trench width	NA	-	-
	(b) Filling of trench	NA	-	-
	(c) Location of trench	NA	-	-
5.2	Cross - Section showing the size of pit and location of conduit for HDD method	Drawing Enclosed	-do-	Yes
5.3	Strip plan/ Route plan showing utility line, Chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Drawing Enclosed	-do-	Yes
5.4	Plan and profile drawing of stretch showing Cross - Section of road at 20 m distance along with ROW and Proposed utility.	NA	-	-
6	Methodology for laying of utility line	Enclosed	-do-	Yes
7	Draft license Agreement is as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/S&R (R) dated 22.11.2016 and signed by two witnesses	Enclosed	-do-	Yes
8	License fees in favor of MoRTH	Will be submitted as and when informed by NHAI	-do-	Yes
9	Whether Bank Guarantee has been obtained	Will be submitted as and when informed by NHAI	-do-	Yes
	(a) If yes, whether Confirmation of BG has been obtained as per MoRTH / NHAI guidelines.	Will be submitted as and when informed by NHAI	-do-	Yes
<b>10</b>	<b>Affidavit / Undertaking from the Applicant for the following is to be furnished</b>			
10.1	Undertaking for not to Damage to other existing utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Enclosed	Enclosed	Yes

  
 Monuj Kumar Pegu  
 Chief General Manager (Project-Pipeline)  
 Numaligarh Refinery Ltd.  
 122A, G.S. Road, Christianbasti  
 Guwahati-781005



10.2	Undertaking for Renewal of Bank Guarantees and when asked by NHAI / MoRTH.	Enclosed	Enclosed	Yes
10.3	Undertaking for Confirming all standard condition of MoRTH / NHAI guidelines.	Enclosed	Enclosed	Yes
10.4	Undertaking for Shifting of utility as and when asked by MoRTH / NHAI within a month at their own cost.	Enclosed	Enclosed	Yes
10.5	Undertaking for indemnity against all damages and claims	Enclosed	Enclosed	Yes
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed	Enclosed	Yes
10.7	Undertaking that If any claim is raised by the Concessionaire / contractor then the same has to be paid by the applicant.	Enclosed	Enclosed	Yes
10.8	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Enclosed	Enclosed	Yes

The Right of the way (ROW) of the National Highway available at the proposed location from the center line of divided carriageway is 12.00 m at RHS and 12.00 m at LHS towards increasing chainage of NH (From center of ROW to edge of ROW towards proposed utility).

The above particulars along with the drawings and documents have been verified and certified as correct as per prevailing site conditions.

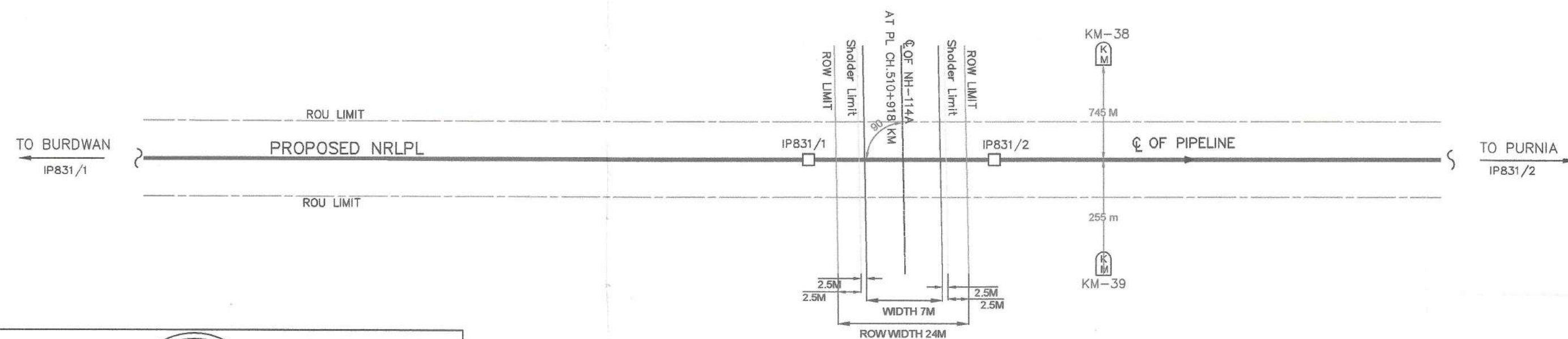
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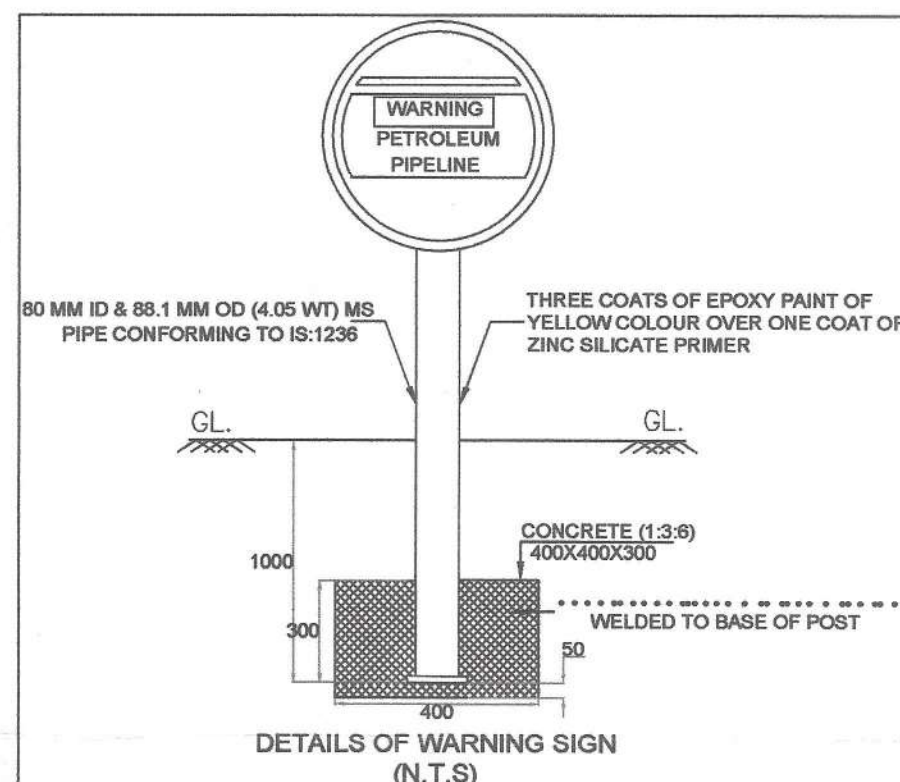
**Monuj Kumar Pegu**  
Chief General Manager (Project-Pipeline)  
Numaligarh Refinery Ltd.  
A. B. S. Road, Dibrugarh

**Executive Engineer,  
NH Division**

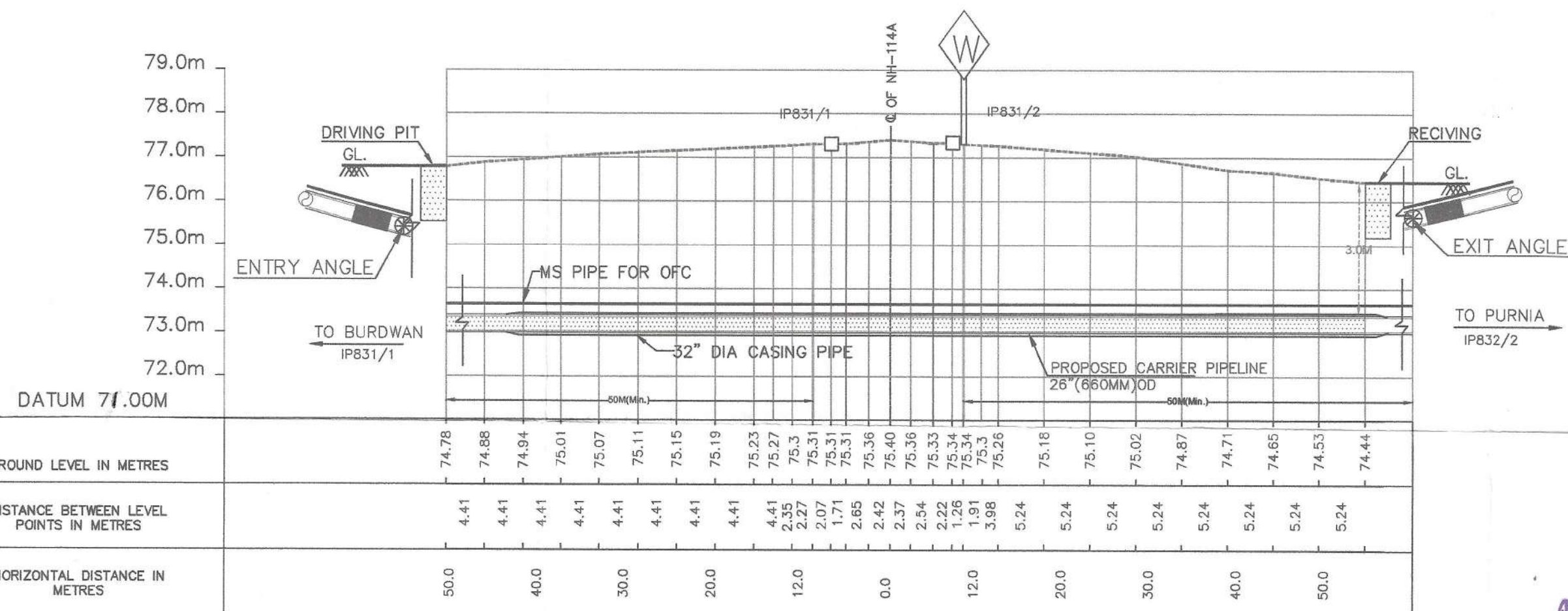
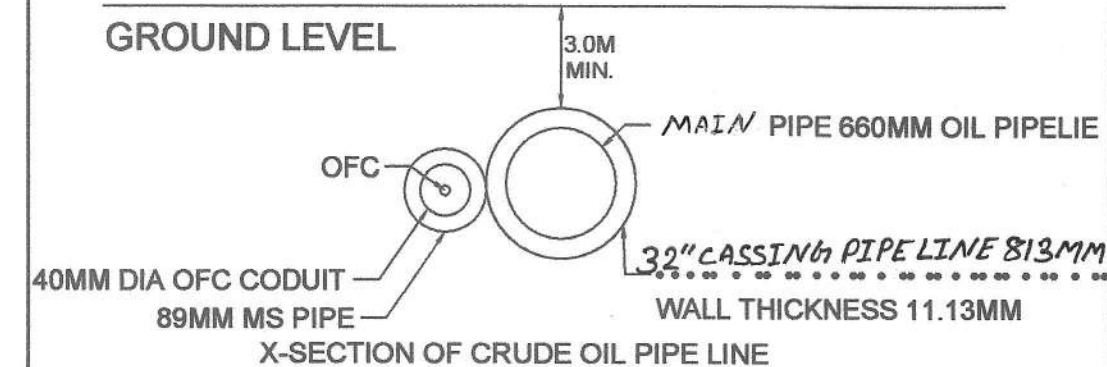




PLAN



## GROUND LEVEL

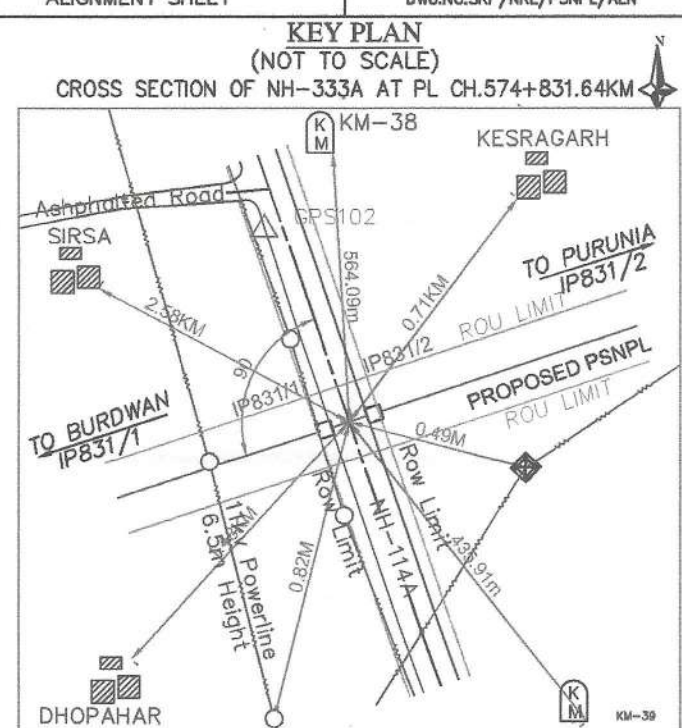


GROUND PROFILE

NAME OF CROSSING	VILLAGE	TEHSIL	CIRCEL	DISTRICT	STATE	PL CROSSING CHAINAGE IN METRES	NH CROSSING CHAINAGE
NH-114A	POKHARIA	SHIKARIPARA	SHIKARIPARA	SHIKARIPARA	JHARKHAND	AT PL CH. 510+918 M	AT CH. 38+745 KM

## REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO
ROUTE MAP	DWG.NO.SKP/NRL/PSNPL/RM
ALIGNMENT SHEET	DWG.NO.SKP/NRL/PSNPL/ALN



SR. NO.	PARTICULARS	DETAILS
1	Origin-Destination	Dumka To Rampurhat
2	Nh Name As Per Authority	NH-114A
3	Nh Chainage(km)	CH: 38+745KM
4	Nearest IP or IP a) Before Crossing b) After Crossing	IP831/1 IP832/2
5	Crossing Angle	90°
6	ROW Width of Crossing in 'm'	24M
7	Crossing Control Point	E 545246.304 N 2679724.006

## NOTES: -

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE MENTIONED.
- ALL LEVELS ARE WITH RESPECT TO MEAN SEA LEVEL.

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