



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Govt. of India)

कार्यालय/प.का.ई. रामगढ़, कानु बगान, रामगढ़ कॉलेज के पीछे, जारा टोला, रामगढ़ (झारखण्ड)-829122
Office PIU: Kaku Bagan, Behind Ramgarh College, Jara Tola, Ramgarh (Jharkhand) - 829122
Email : piuramgarh@gmail.com/piuramgarh@nhai.org, website: nhai.gov.in
Phone : 06545-350008, Mobile No.: 9805915098



No.- NHAI/PIU-Ramgarh/NH-320B/Forest/1361
To,

Date: 31-01-2024

Divisional Forest Officer,
Ranchi, Jharkhand.

Sub: In-principle (Stage-I) approval of Central Government under Forest (Conservation) Act 1980 for diversion of 99.7862 ha (Bokaro FD - 66.5436 ha, Ranchi FD - 28.9869 ha & Ranchi FD - 4.2557 ha) of forest land in favor of NHAI, PIU Dhanbad for construction of Road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ranchi & Ranchi district of Jharkhand.
Submission of Stage-I Clearance compliance for issuance of Working Permission.

Ref: MOEF&CC, Integrated Regional Office, GOI letter no. FP/JH/Road/146250/2021/1177 dated 13.06.2023.

Dear Sir,

Please refer MOEF&CC letter dated 13.06.2023 vide which "in-principle" approval of Central Government, was conveyed for of 99.7862 ha (Bokaro FD - 66.5436 ha, Ranchi FD - 28.9869 ha & Ranchi FD - 4.2557 ha) of forest land in favor of NHAI, PIU Dhanbad for construction of road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ranchi & Ranchi district of Jharkhand. The above referred approval is subject to fulfillment of certain conditions.

In this regard, it is hereby conveyed that conditions as laid down in the above approval has either been fulfilled or we hereby undertake to fulfill them, at appropriate time during the execution of work for subject stretch Jaina More to Gola (NH-23), PKG-I under PIU-Dhanbad & Gola to Ormanjhi (NH-320B), PKG-II under PIU-Ranchi.

Para-wise compliance details are as under :

Sl. No.	Conditions	Remarks of PIU						
A.	Conditions which need to be complied prior to handing over of forest land by the State Forest Department.							
1	The cost of Compensatory afforestation on the CA land (201.885 ha) at the prevailing wage rates as per Compensatory afforestation scheme (including) the cost of Survey, demarcation and erection of Permanent pillars etc. as required for securing the land against encroachment) including that required for patch plantation shall be deposited in advance with the State Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	As demanded by DFO-Ranchi (Lt. no. 2481 dt. 04.07.2023) to fulfill the condition No. 1&2 the following amount after verification from Nodal Officer forest department at Parivesh Portal on 29.09.2023 has been deposited by this office (Annexure 1 & 2):- <table border="1"> <thead> <tr> <th>Forest Division</th><th>Forest Area (in Ha.)</th><th>Deposited Amount (in Rs.)</th></tr> </thead> <tbody> <tr> <td>Ranchi</td><td>4.2557</td><td>Rs. 99,45,406.34/- out of which Rs. 5869382.00 for CA Amount</td></tr> </tbody> </table>	Forest Division	Forest Area (in Ha.)	Deposited Amount (in Rs.)	Ranchi	4.2557	Rs. 99,45,406.34/- out of which Rs. 5869382.00 for CA Amount
Forest Division	Forest Area (in Ha.)	Deposited Amount (in Rs.)						
Ranchi	4.2557	Rs. 99,45,406.34/- out of which Rs. 5869382.00 for CA Amount						

2	The state Government shall charge the Net Present Value (NPV) for the 99.7862 ha forest area to be diverted under this proposal from the user Agency as per the order of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA No. 566 in WP (c) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt. II) dated 18/09/2003, as well as letter No. 5-2/2006-FC dated 03/10/2006, 5-3/2007-FC dated 05/02/2009 and letter No. 5-3/2011-FC (Vol-I) dated 06/01/2022 in this regard.	As per demand of DFO, Ranchi letter No. 2481 dated 04.07.2023 vide which Rs. 99,45,406.34 deposited out of which 4076024.34 for NPV amount deposited on 29.09.2023 in CAMPA A/c of forest department (Annexure 1 & 2).
3	As recommended by the Regional Empowered Committee, a Wildlife Management Plan and Soil & Moisture Conservation Plan should be prepared by concerned DFO and approved by the PCCF (Wildlife) & Chief Wildlife Warden, Jharkhand for implementing them at project cost. The duly approved Plan should be submitted in IRO, MoEF&CC, and Ranchi before issuance of final approval.	As per demand of DFO, Ranchi letter No. 3069 dated 08.08.2023 vide which Rs. 55,00,346.30 deposited out of which 44,00,277.04 for Wildlife Management Plan & Rs.1100069.26 for Soil Moisture Conservation Plan amount deposited on 29.09.2023 in CAMPA A/c of forest department (Annexure- 1A, 2 & 3).
4	The Committee suggested that the patches left-over in between existing and proposed road, at certain locations, should also be taken up for plantation by SFD at project cost. This cost should also be included in CA levies.	As per demand of DFO, Ranchi letter No. 171 dated 16.01.2024 vide which Rs. 69,92,821.00 deposited for patches plantation work at left-over in between existing and proposed road. The amount deposited on 30.01.2024 in CAMPA A/c of forest department (Annexure-5).
5	All the funds received from the user agency under the Project shall be transferred / deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/)	As per instruction of MOEF&CC in Stage-I approval para 5. The demanded fund from Forest Department has been deposited to CAMPA fund through e-portal (https://parivesh.nic.in/) (Annexure-2)
6	The user Agency should formulate & implement Soil Moisture Conservation work around the proposed road so that small streams are disturbed due to the Construction of the Highway.	Same will be complied during construction stage of Highway and for this undertaking is being attached. (Annexure-4).
7	A-Muck-Disposal Plan should be prepared by User Agency to ensure that the muck/ wastage generated should be disposed of in proper manner. Such plan, duly approved by the concerned DFO, should be submitted to this office before soliciting Working Permission.	Muck Disposal Plan has been approved by DFO-Ranchi vide letter No. 4257 dated 07.11.2023 for Package-II respectively (Annexure- 6)
8	The FRA certification as per Ministry guidelines shall be submitted before the issuance of final approval. The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector including Gram-Sabha proceedings.	FRA certificate issued by concerned District Collector in prescribed form after Gram-Sabha proceedings is enclosed herewith, details are mentioned below: Ranchi Division: - FRA - Memo no. 391(I) dated 10.09.2023 (Annexure-7)
9	The KML files of the forest area to be diverted and the CA area shall be uploaded on the e-Green watch portal with all requisite details and submitting compliance report for seeking Stage-II approval.	KML files of forest area to be diverted and CA area has already been uploaded on e-Green watch portal.


 Project Director
 NHAI-PIU, Ramgarh

10	Violation of any of these conditions will amount to Violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of Comprehensive of Forest (Conservation) Act, 1980 as issued by this Ministry letter No. 5-2/2017-FC dated 28.03.2019.	It will be ensured by the user agency that there shall be no violation of any of these conditions. In this regard undertaking is being enclosed. (Annexure-8)
11	The Compliance report shall be uploaded on e-portal (https://parivesh.nic.in/)	It will be ensured by the user agency that compliance report will be uploaded on e-portal (https://parivesh.nic.in/).
B. Conditions which need to be Strictly complied on field after handing over of forest land to the User Agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval:		
1	Legal status of the forest land shall remain unchanged.	Legal status of forest land will not be changed. In this regards undertaking is being enclosed (Annexure-9)
2	Compensatory afforestation shall be taken up by the Forest Department over 201.89 ha. degraded forest land (Sites- Mauza-Lawalong, Thana- Gomia/39, Plot No. 254, 1, 18, 343 (Area - 50.50 ha), Mauza- Gomikarmatand, Thana- Gomia/103, Plot No. 467, 126, 240 (Area- 20.13 ha), Mauza- Dania, Thana- Gomia/32, Plot No. 560, 561 (Area- 20.87 ha), Mauza- Kurknalo, Thana- Gomia/94, Plot No. 728, 1236 (Area- 29.32 ha) and Mauza-Khakhhand, Thana - Gomia/38, Plot No. 414, 418 (Area- 13.20 ha) under Bokaro Forest Division, Mauza- Darid, Thana- Peterwar/65, Plot No. 654 (Area- 7.18 ha), Mauza- Dantu, Thana- Kasmar/64, Plot No. 1458 (Area- 2.63 ha), Mauza- Sonhar, Thana- Kasmar/63, Plot No. 275, 252, 480, 497, 340 (Area- 8.70 ha), Mauza- Sonpura, Thana- Kasmar/62, Plot No. 323, 324, 305 (Area- 7.64 ha), Mauza- Kajrum, Thana- Peterwar/68, Plot No. 209 (Area- 5.25 ha), Mauza- Haslata, Thana- Kasmar/69, Plot No. 388 (Area- 6.70 ha), Mauza- Takaha, Thana- Peterwar/27, Plot No. 234 (Area- 4.97 ha) & Mauza- Banda, Thana- Gola/9, Plot No. 1967, 1984, 210 (Area- 15.95 ha) under Ranchi Forest Division and Mauza- Balu, Thana- Ranchi/29, Plot No. 25 (Area- 9.55 ha) under Ranchi Forest Division) at the cost of the user agency. As far as possible, a mixture of local native species shall be planted and monoculture of any species, especially non-native species should be avoided.	Demand raised by forest department for CA has already deposited in CAMPA A/C on 05.10.2023. In this regards, undertaking is enclosed herewith for deficit amount if any, shall be deposited by the user agency. (Annexure-10)
3	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall also be charged by the State Government from the User Agency. The User Agency shall furnish an Undertaking to this effect.	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization, the difference amount will be deposited by this office to the forest department. In this regards, undertaking attached (Annexure-11)
4	The trees having diameter less than 7 inches shall be translocated as per the set standards of the High-Powered Committee constituted in the State of Jharkhand that governs the tree felling.	In this regards undertaking enclosed and it is being ensured that trees having diameter less than 7 inches is being translocated. (Annexure-12)
5	User Agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision and direction of the State Forest Department; the cost of felling of trees shall be deposited by the User Agency	We are felling only unavoidable trees under supervision of State Forest Department. In this regards undertaking is being enclosed. (Annexure-13)


 Project Director
 NHAI-PIU, Ramgarh

	with the State Forest Department.	
6	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.	In this regards undertaking enclosed. (Annexure-14)
7	The user agency shall provide suitable under passes for animal movement in Forest Area/ Road stretch as per recommendations of concerned DFO.	In this regards undertaking enclosed. (Annexure-15)
8	The NHAI shall provide unrestricted access to Forest Department vehicles for Managing forests & wildlife during project operation phase.	In this regards undertaking enclosed. (Annexure-16)
9	The User Agency shall raise strip plantation on both sides of the road as per The IRC norms.	In this regards undertaking enclosed. (Annexure-17)
10	The layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.	In this regards undertaking enclosed. (Annexure-18)
11	(a) No labor camp shall be established on the forest land. (b) The User Agency shall provide alternate fuels preferably LPG to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas. (c) Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency.	In this regards undertaking enclosed. (Annexure-19)
12	(a) The period of diversion under this approval shall be co-terminus with the period of the project life. (b) The forest land shall not be used for any purpose other than that specified in the project proposal. (c) The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior Approval of the Ministry of Environment, Forest & Climate Change.	In this regards undertaking enclosed. (Annexure-20)
13	Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, Protection and development of forest & wildlife.	In this regards undertaking enclosed. (Annexure-21)

In view of the above, it is hereby requested to kindly make necessary arrangement for issuance of working permission for the above mentioned subject project at the earliest so that project may be completed on schedule time.

Thanking you,

Encl: As above.

Yours faithfully,

(A.K. Singh)

Project Director

Copy to: 1. Regional Officer, RO, Ranchi - for kind information please.
2. Project Director, NHAI, PIU-Dhanbad - for information.

Sl. No.	Particulars	
1	Name of the Regional Office	Ranchi
2	State/District/Forest Division to which the proposal related	Ranchi
3	Name of the User agency, nature of the proposal	National Highways Authority of India.
4	Extent of Forest area involved (in Ha.)	4.2557 Ha
5	Whether original, or extension	Original
6	If extension of lense, please clarify if proposal involves additional forest area, and if so, specify	
7	Date of 1st Stage clearance	13.06.2023
8	Extent of CAMPA charges, head wise	
a.	Compensatory Afforestation	Rs. 5869382.00
	DFO, Ranchi	
b.	Penal CA	0
c.	Catchment Area Treatment	0
d.	Wildlife Management and Soil Moisture Conservation Plan (for safety purpose)	Rs. 5500346.00 (2%+0.5%)
e.	Additional Charges for diversion area falling under notified Protected area (i.e. block plantation 5 times of tree to be felled)	
f.	Net present Value	Rs. 4076024.00
	DFO, Ranchi	
g.	Any other Charges/Levies (Pl Specify)	Rs. 6992821 (Additional CA levies for Patch plantation work)
h.	Lease transfer fee	
9	Details of bank Draft (Bank Draft No. date and amount), head wise against items indicated in the paragraph 9 above.	
10	Whether deposited by RTGS, if so, the particulars and date of remittance	1. Amount has been deposited on dated 05.10.2023 by NHAI through RTGS to Jharkhand CAMPA bank Union Bank of India A/c no. 1507261146250122 as per generated challan from parivesh portal (Challan application no. 61146250122 dt. 30.09.2023), RTGS ref. no. CNRBR52023100564892301. 2. Additional CA levies for patch plantation work, amount has been deposited on 30.01.2024 by NHAI through RTGS to Jharkhand CAMPA bank Union Bank of India A/c No. 1507261146250842 as per generated challan from Parivesh application No. 61146250842 dt. 27.01.2024), RTGS ref. No. CNRBR52024013072705940. Copy of Challan attached herewith for your further reference please.
11	Bank (corporation Bank, Lodhi Complex/Union bank of India, Sunder Nagar) in which Deposited, with Deposit, with date of Deposition	As per challan Bank name & Address is Union Bank Of India FCS Centre, 21/1, III Floor, Jellita Towers, Mission Road, Bengaluru-560027.
12	Any other remarks.	

Project Director
NHAI-PIU, Ramgarh

Divisional Forest Officer
Ranchi Forest Division, Ranchi



राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways, Government of India)

कार्यालय / प.का.ई. रामगढ़, काजु बगान, रामगढ़ कॉलेज के पीछे, जारा टोला, रामगढ़ (झारखण्ड) - 829122

Office/PIU: Ramgarh, Kaju Bagan, Behind Ramgarh College, Jara Tola, Ramgarh (Jharkhand) - 829122

Email : piuramgarh@gmail.com / piuramgarh@nhai.org वेब: www.nhai.gov.in

Phone- +916545350008



No. - NHAI/PIU-Ramgarh/NH-320B/Forest/1358

Date: 30-01-2024

To,

The Divisional Forest Officer,
Forest Division Ranchi,
District- Ranchi.

विषय:- भारतमाला परियोजना (जैनामोड - गोला-ओरमांझी खण्ड) पथ निर्माण हेतु रांची वन प्रमण्डल, रांची अंतर्गत होने वाली वनभूमि रकबा-4.2557 हे० के संबंध में।

संदर्भ: आपके कार्यालय का पत्रांकक 171 दिनांक 16.01.2024।

महोदय,

उपर्युक्त संदर्भित पत्र के संबंध में अवगत कराना है कि Patch Plantation के कार्य हेतु प्राक्कलन रु. 69,92,821/- प्रेषित किया गया था जिसे इस कार्यालय द्वारा परिवेश पोर्टल पर ई-चलान Generate करने हेतु नोडल अधिकारी को अनुमोदन के लिए प्रेषित किया गया था जिसे नोडल अधिकारी के अनुमोदन के पश्चात् उपरोक्त राशि CAMPA Account में जमा करा दिया गया है।

अतः उपरोक्त आपको सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

संलग्नक: उपरोक्तानुसार।

प्रतिलिपि

1. PCCF Wetland cum Nodal officer, FC ACT, Ranchi for kind information.

Divisional Forest Officer
Ranchi Forest Division, Ranchi

भवदीय,

(ए.के. सिंह)

परियोजना निदेशक



कार्यालय:- वन प्रमण्डल पदाधिकारी, राँची वन प्रमण्डल, राँची।

वन भवन, डोरण्डा, राँची- 834002 (झारखण्ड)

E-mail : dfo-raanchi@gov.in Ph. No. 0651 2490265 (O), FAX 0651 2482386



यहाँ है वनिकारी
यहाँ है खुराक

पत्रांक - 171.....दिनांक - 16.01.2024

सेवा में,

परियोजना निदेशक,
NHA, रामगढ़, (झारखण्ड)

विषय:-

भारतमाला परियोजना (जैनामोड-गोला-ओरमाड़ी खण्ड) पथ निर्माण हेतु
राँची वन प्रमण्डल, राँची अंतर्गत अपयोजित होने वाली वनभूमि रकबा-
4.2557 हे० के संबंध में।

प्रसंग:-

आपका पत्रांक 1311 दिनांक 11.01.2024

महाशय,

उपर्युक्त विषयक प्रासांगिक पत्र के संदर्भ में सूचित करना है कि नोडल पदाधिकारी के
द्वारा प्राक्कलन में पायी गयी त्रुटियों का निराकरण करते हुए इस पत्र के साथ संलग्न संशोधित
प्राक्कलन के अनुरूप कुल रूपये 69,92,821.00 (छह लाख बानबे हजार आठ सौ एकौन) मात्र
राशि का e- चालान generate करते हुए भारत सरकार के Ad-hoc CAMPA में जमा करते हुए CA
Levies में भरकर सूचना इस कार्यालय को देने की कृपा की जाय।

अनुलग्नक-स्थल विशिष्ट प्राक्कलन

आपका विश्वासी,

वन प्रमण्डल पदाधिकारी,
राँची वन प्रमण्डल, राँची।

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 27-01-2024

Agency Name.	NHAI, PIU DHANBAD
Application No.	61146250842
MoEF/SG File No	FPI/JH/ROAD/146250/2021
Location.	JHARKHAND
Address.	PIU DHANBAD, NHAI COMPLEX KANDRA, P.O BHITIA, P.S GOVINDPUR, DHANBAD JHARKHAND Dhanbad
Amount(in Rs)	6992821/-

Amount in Words : Sixty-Nine Lakh Ninety-Two Thousand Eight Hundred and Twenty-One Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	JHARKHAND CAMPA
IFSC Code:	UBIN0995335
Pay to Account No.	1507261146250842 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jalitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 27-01-2024

Agency Name.	NHAI, PIU DHANBAD
Application No.	61146250842
MoEF/SG File No.	FPI/JH/ROAD/146250/2021
Location.	JHARKHAND
Address:	PIU DHANBAD, NHAI COMPLEX KANDRA, P.O BHITIA, P.S GOVINDPUR, DHANBAD JHARKHAND Dhanbad
Amount(in Rs)	6992821/-

Amount in Words : Sixty-Nine Lakh Ninety-Two Thousand Eight Hundred and Twenty-One Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	JHARKHAND CAMPA
IFSC Code:	UBIN0995335
Pay to Account No.	1507261146250842 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jalitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference Id to Email: fcsblr@unionbankofindia.bank, epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Divisional Forest Officer
Ranchi Forest Division, Ranchi

30-01-2024 15:10:40	30 Jan 2024	000000000000	RTGS Dr-CNRBR52024013072705840- UBIN0996335-JHARKHAND CAMPA- URGENT/FAST	59	69,92,821.00	
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 Divisional Forest Officer
 Ranchi Forest Division, Ranchi



कार्यालय:- वन प्रमण्डल पदाधिकारी, राँची वन प्रमण्डल, राँची।

वन भवन, डोरण्डा, राँची- 834002 (झारखण्ड)

E-mail : dfo-ranchi@gov.in Ph. No. 0651-2480265 (O), FAX 0651- 2482386



अर्थ है दृष्ट्याही ।
वर्त है अश्वत्थी ।

पत्रांक :- 2481...दिनांक :- 09-07-2023

सेवा में,

परियोजना निदेशक
NHAI, धनबाद।

विषय:- भारतमाला परियोजना (जैनामोड़-गोला-ओरमांडी खण्ड) पथ निर्माण हेतु राँची वन प्रमण्डल, राँची अन्तर्गत अपयोजित होने वाली वनभूमि रकबा- 4.2557 हे० के संबंध में.

प्रसंग:- भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय राँची का पत्र सं०- FP/JH/Road/146250/2021/1177 Date- 13.06.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संदर्भ में सूचित करना है कि भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय राँची का पत्र सं०- FP/JH/Road/146250/2021/1177 Date- 13.06.2023 द्वारा विषयगत परियोजना को प्रथम चरण की स-शर्त स्वीकृति प्रदान किया गया है। भारत सरकार द्वारा (केन्द्रीय) राँची द्वारा लगाए गये शर्त- सं० (A) के कंडिका-1 एवं कंडिका-2 में प्रस्तावित अपयोजन हेतु वन भूमि के विरुद्ध क्षतिपूरक वनरोपण एवं N.P.V. की राशि हेतु की राशि प्रयोक्ता अभिकरण द्वारा जमा किया जाना है, जिसकी विवरणी निम्नवत् है :-

शर्त सं०	विवरणी	रकम
(A) 3	क्षतिपूरक वनरोपण की राशि (9.55हे०)	58,69,382.00
(A) 4	NPV की राशि - 4.2557 x 9,57,780.00 कुल वन भूमि 4.2557 हे० (घनत्व 0.28) @ 9,57,780.00 की दर से Eco class 3 and density 0.28 के अनुसार 9,57,780.00 रु० प्रति हे०	40,76,024.34
कुल-		99,45,406.34

* प्रयोक्ता अभिकरण यह सुनिश्चित करें कि CA/NPV इत्यादि की राशि परिवेश पोर्टल से उत्पन्न चालान के माध्यम से उचित बैंक में ही राशि ऑनलाईन जमा करें।

* अपयोजित होने वाले वन का सिमांकन पर बनने वाली कंक्रीट पीलर का निर्माण जिसमें उनका सीरियल नं०, GPS Cordinates, Forward and Backward bearing एवं दूरी इत्यादि अंकित कर निर्माण कार्य प्रयोक्ता अभिकरण द्वारा किया जायेगा।

अतः अनुरोध है कि उपरोक्त विवरणी के अनुसार कुल रु०- 99,45,406.00 (नानाबे लाख पैतालीस हजार चार सौ छः) मात्र का e- चालान generate करते हुए भारत सरकार के Ad-hoc CAMPA में जमा करते हुए सूचना इस कार्यालय को भी दी जाय साथ ही साथ भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, राँची के प्रसंगाधीन पत्र द्वारा प्रथम चरण की स्वीकृति में लगाए गये सभी शर्तों का अनुपालन प्रतिवेदन अविलम्ब इस कार्यालय में समर्पित करना सुनिश्चित किया जाय ताकि अग्रेतर कार्रवाई की जा सके।

अनु०-यथोक्त (स्थल विशिष्ट प्राक्कलन)

आपका विश्वासी,

वन प्रमंडल पदाधिकारी
राँची वन प्रमंडल, राँची।



कार्यालय:- वन प्रमण्डल पदाधिकारी, राँची वन प्रमण्डल, राँची।

वन भवन, डोरण्डा, राँची- 834002 (झारखण्ड)

E-mail : dfo-ranchi@gov.in Ph. No. 0651-2480265 (O), FAX 0651- 2482386



जहाँ है हरियाली
वहाँ है ज़्यादा लो ॥

पत्रांक :- 3069 दिनांक :- 08-08-2023

सेवा में,

परियोजना निदेशक,
NHAI, धनबाद, (झारखण्ड)

विषय:- भारतमाला परियोजना (जैनामोड़-गोला-ओरमांझी खण्ड) पथ निर्माण हेतु राँची वन प्रमण्डल, राँची अंतर्गत अपयोजित होने वाली वनभूमि रकबा- 4.2557 हे० के संबंध में।

प्रसंग:- आपका पत्रांक- 475 दिनांक- 01.08.2023

महाशय,

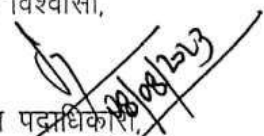
उपर्युक्त विषयक प्रासंगिक पत्र द्वारा आपने स्टेज-I की स्वीकृति में लगाये गये शर्तों में से शर्त संख्या-A(3) एवं A(6) वन्यप्राणी प्रबंधन योजना एवं Soil Moisture Conservation Plan के लिए भारत सरकार का पत्र संख्या FC-11/43/2021-FC दिनांक 10.02.2023 में दिये गये निर्देशानुसार प्राक्कलन समर्पित किया गया है।

उपरोक्त समर्पित प्राक्कलन से स्पष्ट है कि वन्यप्राणी प्रबंधन योजना हेतु प्रोजेक्ट Cost का 2 % का राशि 44,00,277.04 मात्र एवं Soil Moisture Conservation Plan हेतु प्रोजेक्ट Cost का 0.5% का राशि 1100069.26 मात्र सकल योग- राशि 55,00,346.30 या राशि 55,00,346.00 (पचपन लाख तीन सौ छियालीस) मात्र प्राक्कलित है।

उपरोक्त कुल राशि 55,00,346.00 (पचपन लाख तीन सौ छियालीस) मात्र का e- चालान जनित करते हुए भारत सरकार के Ad-hoc CAMPA में जमा करने की स्वीकृति इस शर्त के साथ दी जाती है कि निम्नवत् वचनबद्धता प्रमण्डलीय कार्यालय में समर्पित करना सुनिश्चित करेंगे।

1. वन्यप्राणी प्रबंधन योजना, पत्र प्राप्ति से एक माह के अंदर प्रमण्डलीय कार्यालय में समर्पित किया जाना सुनिश्चित करने संबंधी वचनबद्धता।
2. सक्षम पदाधिकारी द्वारा अनुमोदित वन्यप्राणी प्रबंधन योजना एवं अभी समर्पित राशि में जो अंतर राशि होगा उसको जमा करने संबंधी वचनबद्धता।
3. Soil Moisture Conservation Plan पत्र प्राप्ति से एक माह के अंदर प्रमण्डलीय कार्यालय में समर्पित किया जाना सुनिश्चित करने संबंधी वचनबद्धता।
4. सक्षम पदाधिकारी द्वारा अनुमोदित Soil Moisture Conservation Plan एवं अभी समर्पित राशि में जो अंतर राशि होगा उसको जमा करने संबंधी वचनबद्धता।

आपका विश्वासी,


वन प्रमण्डल पदाधिकारी,
राँची वन प्रमण्डल, राँची।
8/8

AGENCY COPY

यूनियन बैंक Union Bank of India
आस्था Andhra

NEFT / RTGS CHALLAN for CAMPA Funds
Date : 30-09-2023

Agency Name.	NHAI, PIU DHANBAD
Application No.	61146250122
MoEF/SG File No.	FP/JH/ROAD/146250/2021
Location.	JHARKHAND
Address.	PIU DHANBAD, NHAI COMPLEX KANDRA, P.O BHITIA, P.S GOVINDPUR, DHANBAD JHARKHAND Dhanbad
Amount(in Rs)	444669861/-

Amount in Words : Forty-Four Crore Forty-Six Lakh Sixty-Nine Thousand Eight Hundred and Sixty-One Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	JHARKHAND CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507261146250122 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

• This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY

यूनियन बैंक Union Bank of India
आस्था Andhra

NEFT / RTGS CHALLAN for CAMPA Funds
Date : 30-09-2023

Agency Name.	NHAI, PIU DHANBAD
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• This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank


Project Director
NHAI, PIU
Dhanbad

Project Director
NHAI, PIU
Dhanbad

Online payment history made by User Agency under CAMPA

Help

Sno.	Proposal Detail	Application No	Application No (New)	Date of IN-PRINCIPLE	Amount to be Paid/Amount Paid (in Rs.)	Payment Status	Payment Detail	Demand Letter
1	FP/JH/ROAD/146250/2021 Viewreport.aspx? id=FP/JH/ROAD/146250/2021 Division of fresh Forest Land for development of Economic Corridors, Inter Corridors, Feeder Routes etc., under Bharatmala Pariyojana of Jharkhand More-Gola-Omanjhi section in the state of Jharkhand.	ROAD146250202112261146250122	13 Jun 2023	PRINCIPLE	CA: 220337340/- Add CA: 0/- PCA: 0/- CAT: 0/- Safety Zone: 0/- Add PA: 0/- Wild Life Management Plan as well as Soil & Metals : 121443642/- NPV: 102886579/- Other Charges1 0/- Other Charges2 0/- Other Charges3 0/- Total : 44669864/-	PAID	Fund Demand Verified by 29 Sep 2023 Nodal Officer On Bank Name Union Bank of India Mode of Payment NEFT/RTGS (Challan) Challan Generated 30 Sep 2023 On Transaction Date 05 Oct 2023	Demand Letter C:\writereaddata\Fundpdf\2709202317540308930_FP\HROAD1462502021_User_Fund_Demanded_9K153.docx Generated Challan (C:\UserAccount\Net_Challan.aspx?id=ROAD1462502021122)

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(HTTPS://SWACHHBHARAT.MYGOV.IN/)

(HTTPS://INDIA.GOV.IN/)



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(HTTP://WWW.NIC.IN/)

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For any Technical support, Please Contact EFCCID, NIC, New Delhi
monitoring-ic(at)nic(dot)in

05-10-2023 16:07:39	05 Oct 2023			National Highway- NEFT Cr-RBI2792317052700- RBIS0PFMS01-CS-NHAI-FARO, Ranchi- National Highway-	33		
05-10-2023 16:32:46	05 Oct 2023	00000000000000		RTGS Dr-CNRBR52023100564892301- UBIN0996335-JHARKHAND CAMPA- URGENT/FAST	5365	44,46,69,861.00	


 Project Director,
 NHAI, FIU
 Dhanbad

4

ANNEXTURE-3

**UNDERTAKING IN REFERENCE TO SECTION-A, PARA 03 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

Demand raised by DFO Bokaro, Ramgarh & Ranchi for Wildlife Management Plan and Soil & Moisture Conservation Plan has deposited to CAMPA A/c of forest department CAMPA A/c. However, plan preparation and approval to be done by forest department. In this regards, it is to undertake that the deficit amount if any, shall be deposited accordingly, to the CAMPA A/c of forest department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXURE-4

**UNDERTAKING IN REFERENCE TO SECTION-A, PARA 06 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes to formulate & implement Soil Moisture Conservation work around the proposed road as per requirement during the construction stage. So, that small streams are disturbed due to the construction of the highway.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
**Project Director
NHAI, PIU
Dhanbad**


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
**Project Director
NHAI-PIU, Ramgarh**

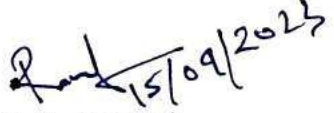
Undertaking for no scope of Gap Plantation

This is to certify that we have uploaded forest proposal [FP No. FP/JH/Road/146250/2021] for Diversion of fresh Forest Land for development of Economic Corridors, Inter Corridors, Feeder Routes etc., under Bharatmala Pariyojana of Jaina More-Gola-Ormanjhi section in the state of Jharkhand.

This is to undertake that the project is Greenfield alignment and there is no scope of Gap Plantation under Forest Division Ranchi and Bokaro.

Place: Dhanbad

Date: 15.09.2023


(R.K. Verma)
Project Director
NHAI, PIU-Dhanbad
Project Director
NHAI, PIU
Dhanbad



कार्यालय :- वन प्रमण्डल पदाधिकारी, राँची वन प्रमण्डल, राँची।
वन भवन, डोरण्डा, राँची- 834002 (झारखंड)

E-mail : dfo-ranchi@gov.in Ph. No. 0651-2480265 (O), FAX 0651- 2482386



अहो दे दृष्ट्यासी ।
करो दे सुरदासी ।

पत्रांक:- 4257 दिनांक:- 07-11-2023

सेवा में,

परियोजना निदेशक,
एन0एच0ए0आई0, रामगढ़।

विषय:-

In-principle (Stage-1) approval of Central Government under (Conservation) Act 1980 for diversion of 99.7862 ha. (Bokaro FD- 66.5436 ha. Ramgarh FD-28.9869 ha. & Ranchi FD- 4.2557 ha.) of forest land in favour of NHAI, PIU-Dhanbad for construction of Road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ramgarh & Ranchi district of Jharkhand में बिन्दु सं0 (7) शर्त के अनुपालन के संबंध में।

प्रसंग:-

आपका पत्रांक-1096 दिनांक-30.10.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के द्वारा समर्पित संशोधित Muck Disposal Plan को स्टेज-I की स्वीकृति में लगाये गये शर्त सं0-A(7) **“A Muck-Disposal Plan should be prepared by User Agency to ensure that the muck/wastage generated should be disposed of in proper manner. Such plan, duly approved by the concerned DFO, should be submitted to this office before soliciting working Permission.”** के आलोक में अधोहस्ताक्षरी के द्वारा अपने स्तर से स्वीकृत किया जाता है। स्वीकृत Muck Disposal Plan की एक प्रति संलग्न कर सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

अनु0-यथोक्त।

आपका विश्वासी

वन प्रमण्डल पदाधिकारी
राँची वन प्रमण्डल, राँची।

MUCK DISPOSAL PLAN

Project Name :- "Four laning with paved shoulder of section from Km 53.600 (Gola on NH-320) to Km 81.446 (Ormanjhi on NH-320B) in the State of Jharkhand on Hybrid Annuity Mode"

Client Name :- National Highway Authority of India

Independent Engineer:- M/S TPF Engineering Pvt. Ltd. In Association with Rotrans

Concessionaire:- M/S PRA Gola Ormanjhi Highway Private Limited

वन क्षेत्र प्रदाधिकारी
राँची पश्चिमी वन प्रक्षेत्र
काँके, राँची



Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh

MUCK DISPOSAL PLAN

GENERAL

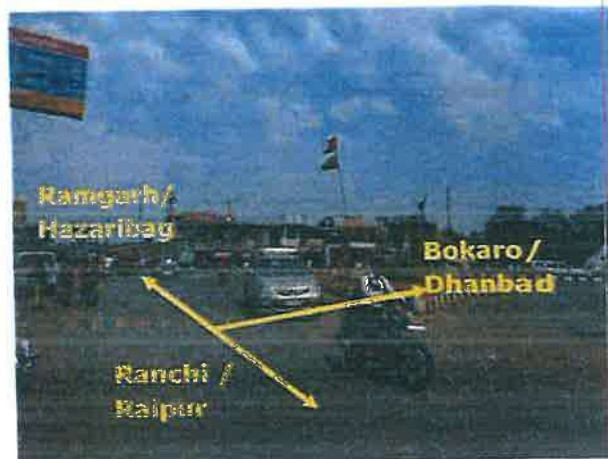
The National Highways Authority of India (NHA) is responsible for execution and maintenance of National Highway stretches entrusted to the state Government within the state boundary on behalf of the Ministry of Road Transport & Highways, Government of India (MoRT&H).

The Ministry of Road Transport & Highways, Government of India has entrusted the National Highways Authority of India (NHA) for the work of Development of Economic Corridors, Inter corridors and feeder route to improve the efficiency of freight movement in India of NH 320 (old NH 23) from Km 53.600 (Gola on NH-320) to Km 81.446 (Ormanjhi on NH-320B) in the State of Jharkhand on hybrid Annuity Mode.

Photographs of start and end point of the project road are as follows:



Start Point of Project Road at Jaina (Bokaro)



End Point of project road at Ormanjhi (Ranchi)

Importance of the Project Road



A direct connection between Dhanbad to Raipur avoiding Ramgarh is considered in this part of Economic Corridor of Bharatmala Pariyojana. To connect Dhanbad and Raipur the alignment is proposed from Dhanbad to Bokaro through NH-18 (Old NH-32) thence to Balidih, Siwandih, Jaina, Petarwar, Gola through NH-320 (Old NH-23) thence to Koilya, Bariatu, Kulhi,



Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHA-PIU, Ramgarh

Charo, Id More thorough MDR 101 thence to Sandi, Dardag, Ormanjhi through MDR 105 & thence intersecting with NH-20 (Old NH 33) at Ormanjhi block chowk to reach Ranchi. Thereafter it follows the available route to Raipur through Gumla, Pathalgaon, etc.

The National Highway Authority of India proposed to develop existing RCD Road originating at Gola connecting with NH-320 Km 53.600 and ending at ormanjhi connecting NH-20 (NH 320B) Km 81.446, Pakage-2 a fully modern system for safe and efficient movement of traffic in the state of Jharkhand. The construction package for the project includes developing the existing two lane carriageway to four lane carriageway including service road in majority of stretches with green field corridor. The construction package mainly connects two main NH.

The project road from Gola to Ormanjhi is located on East-West direction. The horizontal alignment of existing road stretch is passing through several congested settlements/ habitation areas with presence of sharp and reverse curves, where the geometric improvement is required. Horizontal alignment of the proposed road has been designed based on the latest NHAI Office Memorandum no. NHAI/Bharatmala/EC/DPR/2016 dated 14.05.2018 and 03.01.2018 prescribed for Economic Corridor. The design has been carried out to provide seamless freight movement between origin and destinations. Geometric improvement has been done at sharp / reverse curve locations as per recommended design speed. The details of Geometric improvement done along the proposed alignment are presented below in Table No. 1.

Table No.- 1

Sl. No.	Design Chainage (km)	Radius (m)	Design Speed (kmph)
1.	54+276.499	1950	100
2.	56+258.137	1075	100
3.	58+533.472	2000	100
4.	60+635.939	8000	100
5.	62+930.153	740	100
6.	64+369.419	750	100
7.	65+208.074	14000	100
8.	67+027.850	700	100
9.	68+413.16	700	100
10.	70+373.206	900	80
11.	71+210.670	900	80
12.	72+195.599	2000	80
13.	73+718.185	2000	100
14.	75+281.450	5000	100
15.	76+955.649	10000	100
16.	78+205.647	2000	100
17.	79+515.946	8000	100
18.	80+967.231	450	100

(Horizontal Curve Details of Proposed Alignment)



Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh

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काँके, राँची

The Project Stretch of NH-320B from Km 53.600 to Km 81.446 has flexible pavement. The existing 2-lane carriageway will be Constructed newly with requisite connection of existing road as service road. The new four-lane will be constructed completely in modified Alignment includes green field area. There are four Bypass (Gola, Beyang, Improper alignment Hill Section, sanri/Lotwa/Guru/Dardag). The service road, LVUP, SVUP, Major Junction , Minor junctions are provided through project Alignment in requisite areas to facilitate the local traffic.

NHAI is committed to offset the loss of trees by replacing the felled trees by planting at least Five times the number as per recommendation of High-Power committee. Not only this, following the approach of "Corridor Development & Management" rather than "Highway Development"; NHAI Plans to enhance the aesthetics of the highway corridor from all possible angles. Highways are not being looked upon merely as a means of transportation, but an integral part and parcel of the physical environment and Socio-economic milieu.

While Bharatmala Pariyojna Project from Gola (NH-320) to Ormanjhi (NH-320B) formulated project specific strategies for plantation of trees along the highway guidelines for median and avenue plantation for the whole corporate were prepared in order to ensure uniformity of operations.

The followings points will be taken care while handling Muck.

- ❖ Keep the objective in view that soil from excavation should be put to best possible use in fill area unless the material is declared unfit. Where different grade of materials are met with proper arrangement of operations is planned in such a way that the best material is reserved for use in the Embankment up to desired height as well as top 0.5m subgrade.
- ❖ Excavated materials usable in pavement constructions shall be stacked at convenient locations and proper records are kept.
- ❖ Unsuitable materials (Existing Road Dismantle Material) will be utilized for making Diversion approach road /haul road , worker camp / Construction camp where it cannot get easily washed away by rain.
- ❖ As per assumption, major of soil to be obtain from excavation, is suitable material and shall be used as per project requirement meeting with technical specification. Only top soil which is generally fertile soil, shall be used in median/divider of carriageway, slope portion of road for vegetation purpose and this will helps us to protect erosion; so that this material shall be stored in such a manner to full-fill project requirement all along.
- ❖ It will Ensured that necessary measures are taken to prevent soil erosion, blockage of streams and water pollutions.
- ❖ A close watch on the cut slopes and excavated areas will be done to see whether these require any protection/drainage measures for suitability/performance.
- ❖ We will be making it sure about the classification of excavated materials. Where additional pavement is involved, ensure proper measurements, record and evidence, etc.



Divisional Forest Officer
Ranchi Forest Division, Ranchi

Amit
Project Director
NHAI-PIU, Ramgarh

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- ❖ Check the finished cut surface for levels and slopes regularly.
- ❖ Have the top soil (removed earlier and conserved) applied on to cut slopes, median, berms and other disturbed areas. Have these areas sodded or seeded to protect against erosion.

ENGINEERING MEASURES

- ❖ Retaining Wall/RE-Wall – usable material shall be spread and rolled behind retaining wall/RE-wall is proposed to be built up at various location of project Alignment. In addition compaction would also be done after dumping the material on every cycle and simultaneously improving the drainage of the disposal site. All the approach roads to various project structures will be constructed by employing the methodology recommended by National Highway with minimal environmental damage. The methodology consists in developing the formation width is half cutting and half filling, so that the materials obtained from cutting are utilized in filling. The excavation on hill side will be done to get a stable slope for the materials encountered. At places suitable measures like breast-wall/Toe-wall shall be done in natural slope to retain filled material, particularly where there is problem of retaining the hill slope.
- ❖ To minimize the environmental damage, construction material like soil, dusts, etc., required for the construction of road will be obtained mostly from the excavated material.
- ❖ In the streams, cross-drainage structure will be provided to prevent the erosion of nala bed.
- ❖ In addition, stone/concrete work on the downstream area will also be provided at vulnerable places to minimize erosion

MUCK DISPOSAL QUANTITY-

- ❖ The total excavation quantity likely to be generated from the Project Alignment (km- 71.300 to 81.200) will be 4,35,883.67 Cum, out of which around 1,49,799.4 cum likely to be generated from forest area involve in project alignment. Out of 1,49,799.4 Cum of excavation, 40,500.0 Cum material is assuming soft rock/hard rock in the stretch of Chainage Km. 71+850 to 72+000, Village -Id , Mauja -Charu , which may be used if the same stone material is suitable meeting with technical requirement . The total Filling of 9,01,908.44 cum will be required in the project alignment (km- 71.300 to 81.200) including forest area (Qty. 72,323.4 Cum) in the project alignment.
- ❖ Excavation quantity up to 150 mm top soil (Qty. 12,739.95) shall be preserve for vegetation purpose in Road Median portion as it may be fertile.

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Divisional Forest Officer
Ranchi Forest Division, Ranchi

Amid
Project Director
NHAI-PIU, Ramgarh

Table: Calculation of Muck to be disposed.

❖ Quantity calculation details of forest area involve in Project Alignment

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	71+300	71+490	190		82,370.9
2	71+390	71+350	250		57,428.52
	Total >>>>>>				1,49,799.4

❖ Quantity utilization calculation details of forest area materials in the Project Alignment

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	72+160	72+180	20	6,888.079	
2	77+030	77+130	100	1,560.57	
3	80+790	81+120	330	63,875.09	
	Total >>>>>>			72,323.74	

Abstract Quantity

Sr No.	Descriptions	Quantity (cum)
1	Total Excavation (Including forest area)	4,35,883.67
2	Excavation Quantity Generated from forest area	1,49,799.4
3	Total Filling Quantity (Including forest area)	9,01,908.44
4	Filling quantity Generated from forest area	72,323.74
5	Quantity preserves for vegetation purpose	12,739.95
6	Excavated quantity from forest area to be dispose (2-4+5)	64,735.74
7	Total Muck to be disposed	Nil

- ❖ **Note:-** Swell factor calculation will be not applicable in the above said project because there will be no muck will be generated .

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Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh



Quantity calculation details for Project length of Cutting Portion

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	71+300	72+150	850	-	3,39,488.55
2	72+350	72+400	50	-	4,042.56
3	72+530	72+750	220	-	29,091.23
4	73+127	73+290	162.9	-	12,599.27
5	78+620	78+959	338.9	-	22,169.96
6	79+328	79+381	53.1	-	4,705.24
7	79+619	79+716	96.8	-	9,183.98
8	79+978	80+018	40.3	-	6,715.86
9	80+445	80+520	75.4	-	7,887.03
		Total >>>>>>>>>>		-	4,35,883.67

Table: Details of Muck Disposal Areas (Non-Forest/ forest area)

❖ **Quantity calculation details for Project length of Filling Portion**

Sr.No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	72+150	72+350	200	56,386.39	-
2	72+400	72+530	130	13,965.78	-
3	72+750	73+127	376.7	62,130.41	-
4	73+290	74+450	1160.4	1,03,409.70	-
5	74+450	76+150	1700	1,96,179.11	-
6	76+150	77+850	1700	1,78,325.78	-
7	77+850	78+620	769.8	81,845.21	-
8	78+959	79+328	369.5	37,577.68	-
9	79+381	79+550	168.7	14,015.37	-
10	79+550	79+619	69	839.57	-
11	79+716	79+978	262	31,037.66	-
12	80+018	80+445	426.6	15,412.76	-
13	80+520	81+200	679.9	1,10,783.03	-
		Total >>>>>>>>>>		9,01,908.44	-

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काँके, राँची



Divisional Forest Officer
Ranchi Forest Division, Ranchi

Arvind
Project Director
NHAI-PIU, Ramgarh

Ref: PRA-GOHPL/Site/Gola-Ormanjhi/oth/2023-24/ 405

Date: 29-10-2023

To,

The Divisional Forest Officer,
Divisional office,
Ranchi, Jharkhand.

Name of Work: "Four Laning with paved shoulder of section from km 53.600 (Gola on NH-320) to km 81.446 (Ormanjhi on NH-320 B) in the state of Jharkhand on Hybrid Annuity Mode".

Subject: - Undertaking with ref. to compliance of DFO Ranchi letter no- 4079 dt. 25.10.23 point no-8 & 9 for Implementation of work according to Approved Muck Disposal Plan

Reference: -

1. NHAI PIU Ramgarh letter No. NHAI/PIU-Ramgarh/NH320B/Forest/1027 dated 11 Oct 23.
2. Concessionaire letter No.PRA-GOHPL/HO/Gola-Ormanjhi/TL/2023-24/372 dated 11 Oct 23.

Dear Sir,

With reference to the cited subject the Concessionaire submitted that the Muck Disposal Plan for the muck received from the Project Highway through Authority NHAI vide cited reference 1#. In this connection Concessionaire would like to give assurance that the development and construction of the aforesaid work will be executed as per submitted and approved muck disposal plan with the specifications and standards as per good engineering practices.

Also, the Concessionaire have all the applicable liability as per rules of mining/revenue department for the stone/aggregate utilised in the project and would strictly adhere all the conditions for the muck disposal plan by the forest department.

Thanking you and assuring of our best services at all times.

For-PRA Gola Ormanjhi Highway Pvt Ltd.

Authorised Signatory
(Mohan Kumar Mishra)

Copy to: -

1. The Project Director, NHAI, PIU - Ramgarh for information please.
2. M/s PRA -Gola Ormanjhi Highway Pvt Ltd, H O, Raipur for information and records.

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काँके, राँची

Page 1 of 1

PRA GOLA ORMANJHI HIGHWAY PRIVATE LIMITED

CIN No. U45309CT2022PTC013083 | Regd. Office at- P.R.A. House, near Udyog Bhavan, Telibaddha, Raipur
(Chhattisgarh) - 492001 | Email: gola02@praproject.com |

Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh



Cutting Section Ch.71+300-72+150



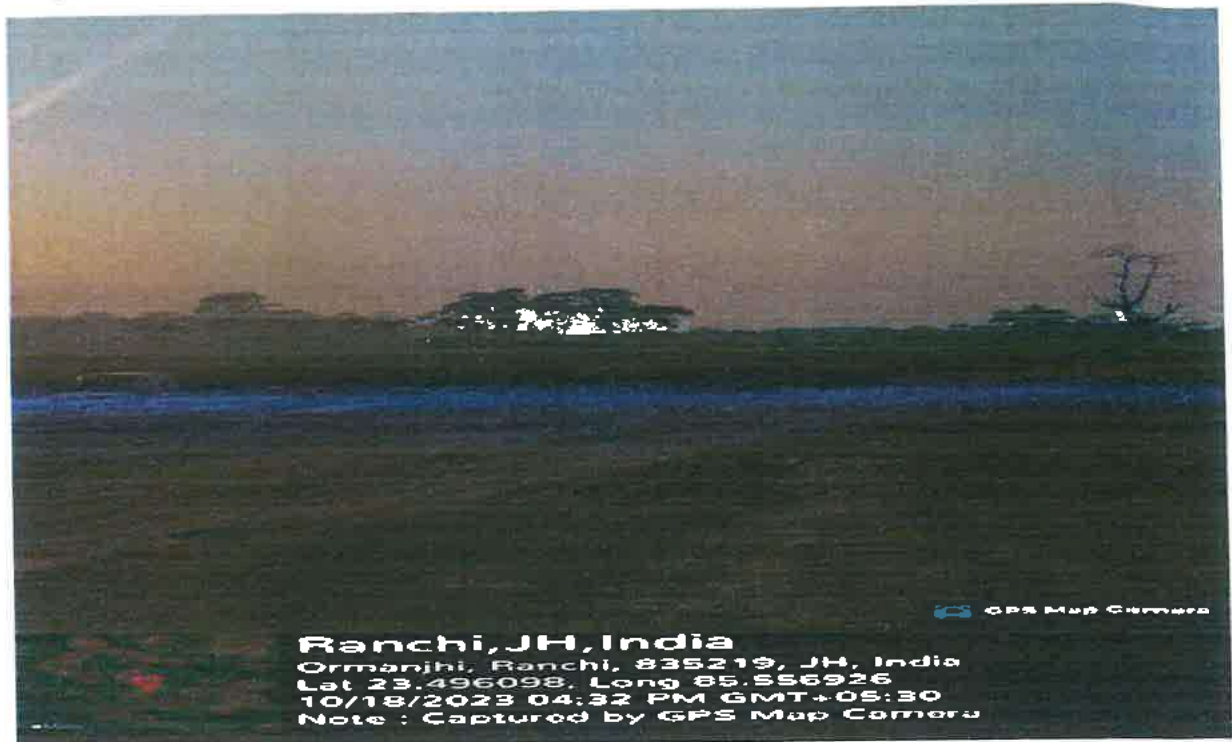
Filling Section Ch.73+750

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Divisional Forest Officer
Ranchi Forest Division, Ranchi



Amid
Project Director
NHAI-PIU, Ramgarh



Filling Section Ch74+450



Filling Section Ch75+750

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 राँची बहिर्मुखी
 बाँके, बिहार

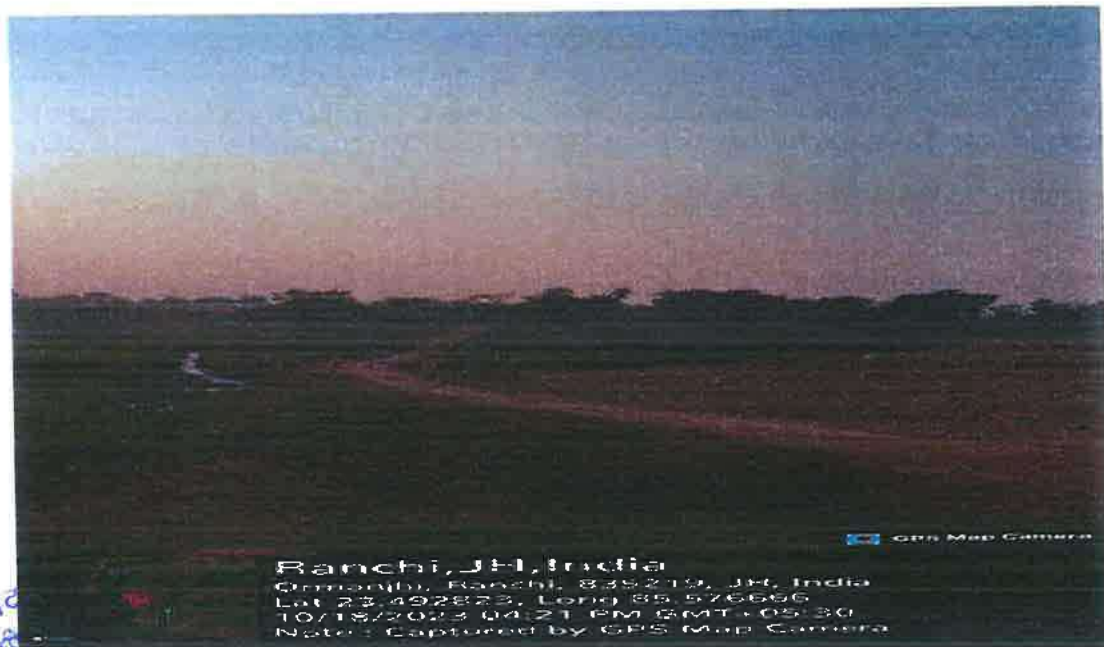
Ranchi Forest Division, Ranchi



Alvin
 Project Director
 NHAI-FIW, Ramgarh



Filling Section Ch75+850



Cutting Section Ch72+900

वन क्षेत्र पट
 रॉन्ची मस्मिनी
 रॉन्ची

Divisional Forest Officer
 Ranchi Forest Division, Ranchi



David
 Project Director
 NHAI-PIU, Ramgarh

Write a description for your map.

वन क्षेत्र पर्यावरण अधिकारी
राँची पर्यावरण वन प्रक्षेत्र

Google Earth

Gedatsud 徳田 忠次郎

Bukhari

University of Illinois at Chicago

Kirchhoff's

Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh

Quality Assurance Plan

This activity will be carried out in accordance with MORTH section 305 & IRC SP:58-2001.

1. Pond ash is to be delivered to the site in covered dumper truck to minimize loss of moisture and dusting.
2. The side soil cover of required width shall be provided along with the core and mechanically compacted as the embankment progresses upwards.
3. The fill material should be spread by mechanical means, finished by motor grader in layers of uniform thickness not exceeding 250 mm and compacted as per Clause 305.3.6.
4. If the Embankment is to be seated on expansive Soil with "Free swelling index" more than 50%, the soil will be removed to 500 mm depth just below the sub-grade.
5. The cover soil and fly ash should be laid simultaneously before compaction, to ensure confinement of fly ash.
6. Clods or hard lumps in cover soil shall be broken to have a maximum size of 50 mm.
7. Moisture content of the materials is to be controlled by checking the moisture content with proper equipment (i.e.) up + 2% of OMC at the time of compaction and the record is to be kept ready at site for inspection.
8. Each layer of fly ash shall be thoroughly compacted to the specified density. When vibratory roller is adopted for compaction, two passes without vibration followed by 5 to 8 passes with vibration would be sufficient to compact individual layers.
9. Where necessary to facilitate compaction of the Embankment to 95% relative compaction determined in accordance with IS: 2720 (Part- 8).

8. Site Records:

RFI shall be raised before the activity and after completion of process and internally checking the required parameters. Authority Engineer shall be requested to accord the written approval of the same.

4.25 METHODOLOGY FOR WELL FILLING

1. Scope

This work shall consist of filling of well encountered in project alignment.

2. Reference

MORTH Specification and technical specifications of contract.

3. Equipment's and Tool's

- Dumpers
- Water Tanker
- Wheel loader
- Measuring Tape
- Spade etc.

4. Procedure

Prior to the filling the dimensions of the well shall be measured.

The well shall be filled with self-compacting boulder/granular/ sand material/ stone dust/ query waste/ Fly ash/brick metal/Crushed concrete/kankar etc. as shown below.

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Quality Assurance Plan

The compaction shall be done by fully saturated material with water.

Top layer of the well should be in level with ground level.

Afterwards embankment/ subgrade material is laid and compacted as per MORTH specification.

5. Safety Precautions

The well area shall be fully protected with barricading or safety ribbon.

Experienced person shall be deployed at will filling.

All truck shall be provided with reverse horn and lights.

All workmen at work area shall wear safety helmets and reflective jackets.

Regular inspection for all dumper at unloading point shall be required.

Wherever required flagman shall be provided.

Warning and cautionary board shall be displayed at wells.

4.26 OTHER CONSTRUCTION MATERIALS

1. Steel, admixture, cement, bitumen etc. these items test will be carried out in out lab or third party lab per lot as per relevant code.
2. Methodologies of Road sign marking/ crass barrier, handrails, bridge bearing, paver block, expansion joints etc. shall be submitted separately before starting of work.

5.0 CONTROL OF DOCUMENTATION AND COMMUNICATION

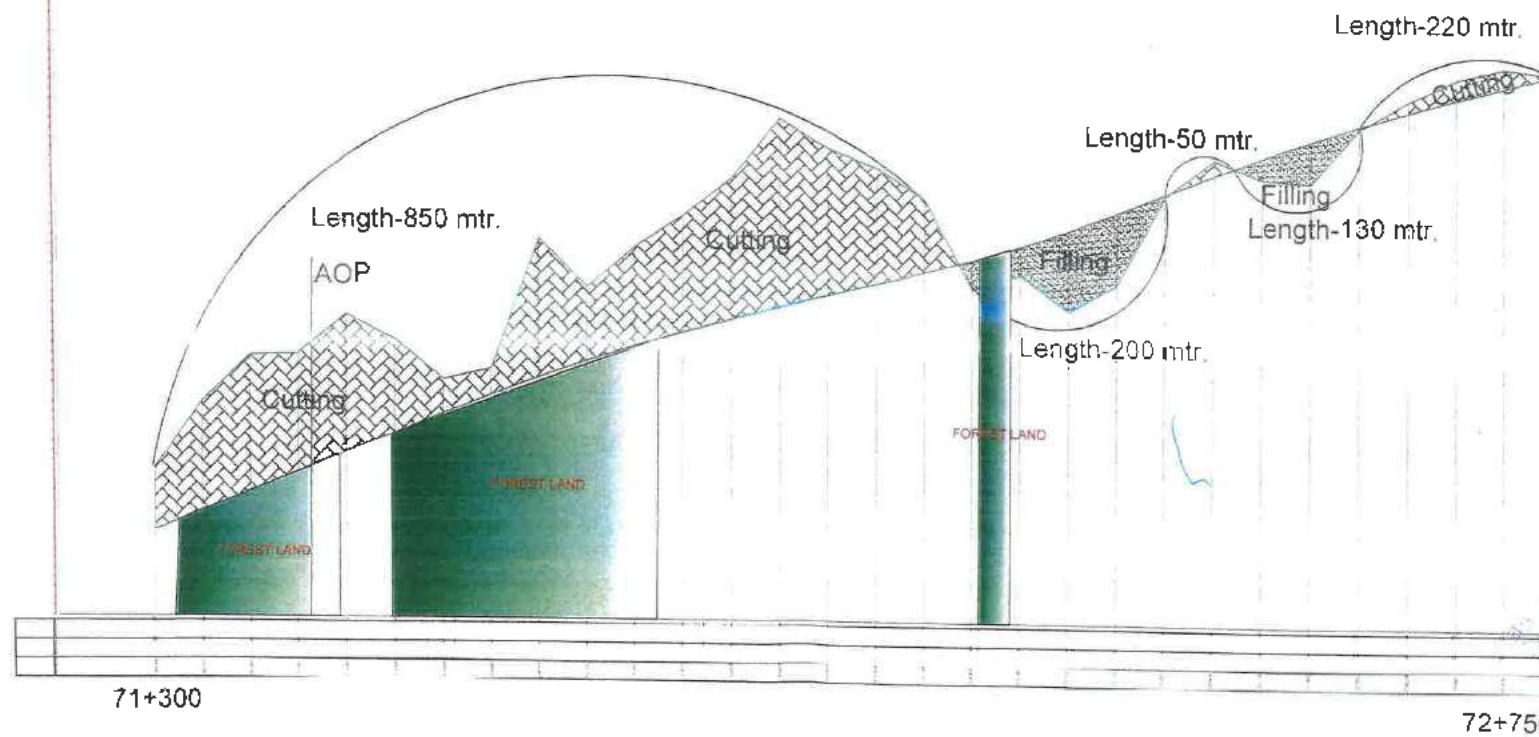
5.1 Procedures for Filling, Indexing and Maintenance of Records

This will include the project organization, control of plants, equipment, machineries, mobilization, project methodology, QC plans and completion reports etc. to add to the aspects of planning, controlling and monitoring, documentation of the activities needs equal emphasis as that plays an important role in achieving high quality standards.

Project Execution generation Technical as well as Commercial documentation. Control will be exercised by the Contractor's Project Manager's office as below:

S. No.	Activity	Responsibility	Check by	Frequency of Check
1.	Receive all incoming correspondences, put date stamp and submit to PM.	Planning Department	Project Manager	Daily

Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.
L-Section Ch.71+300- Ch.72+750



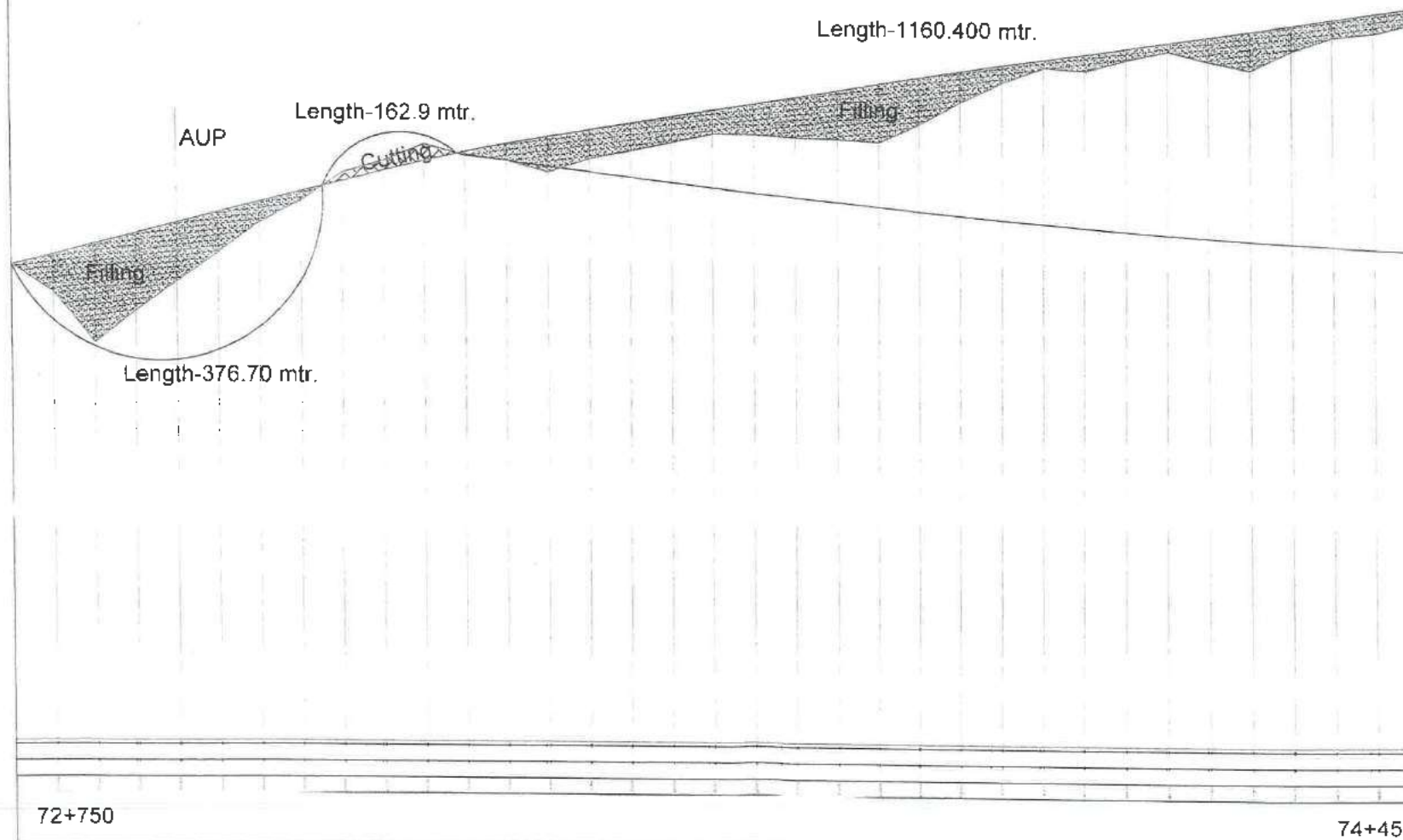
वन क्षेत्र प्रदाधिकारी
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काँके, राँची

Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh



Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.
L-Section Ch.72+800- Ch.74+450



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Divisional Forest Officer
Ranchi Forest Division, Ranchi

Arun
Project Director
NHAI-PIU, Ramgarh



Length-1700.0 mtr.

Filling

Filling

74+450

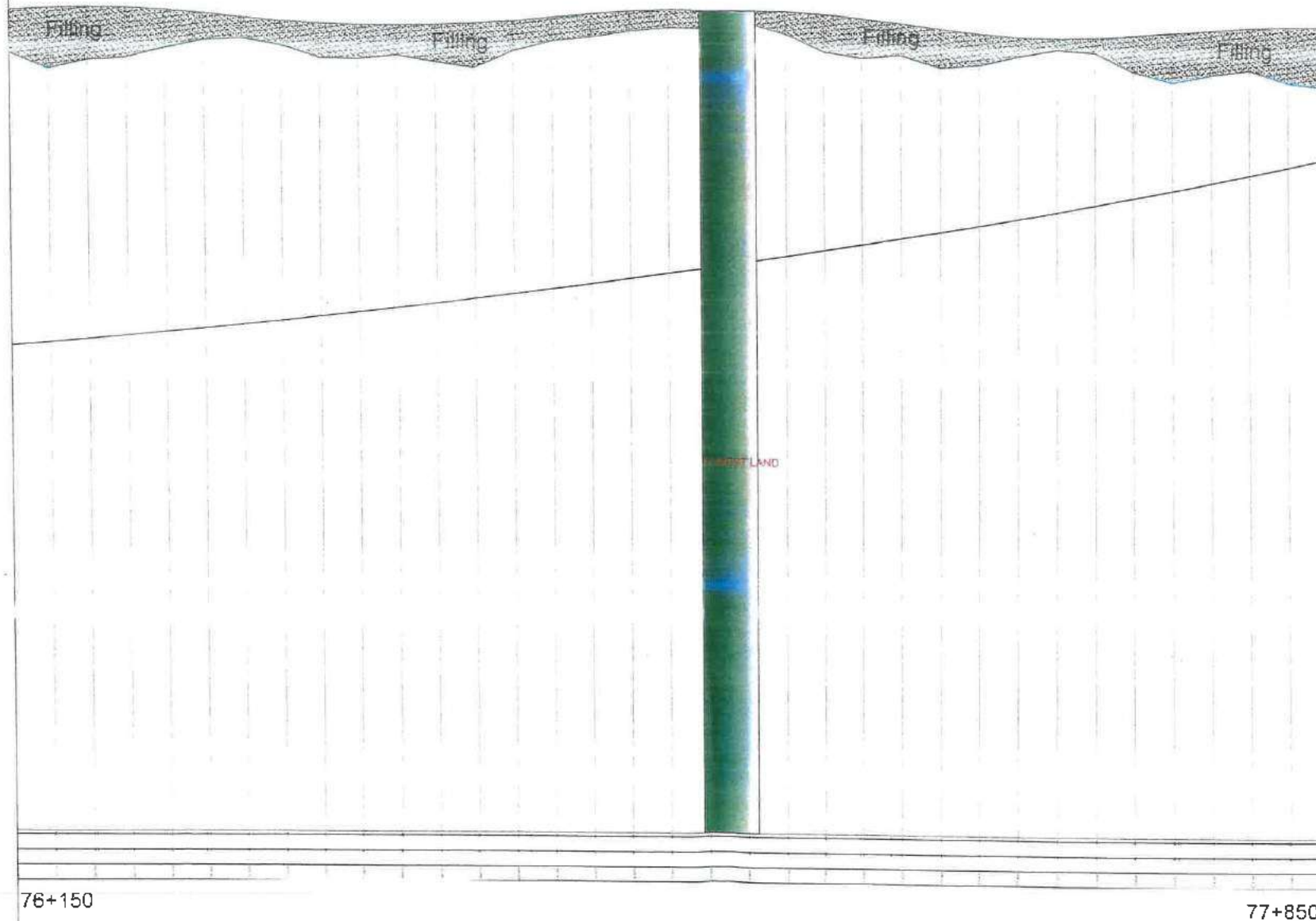
76+150

Alvind
Project Director
NHA-PIU, Ramgarh



Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.
L-Section Ch.76+200- Ch.77+800

Length-1700.0 mtr.



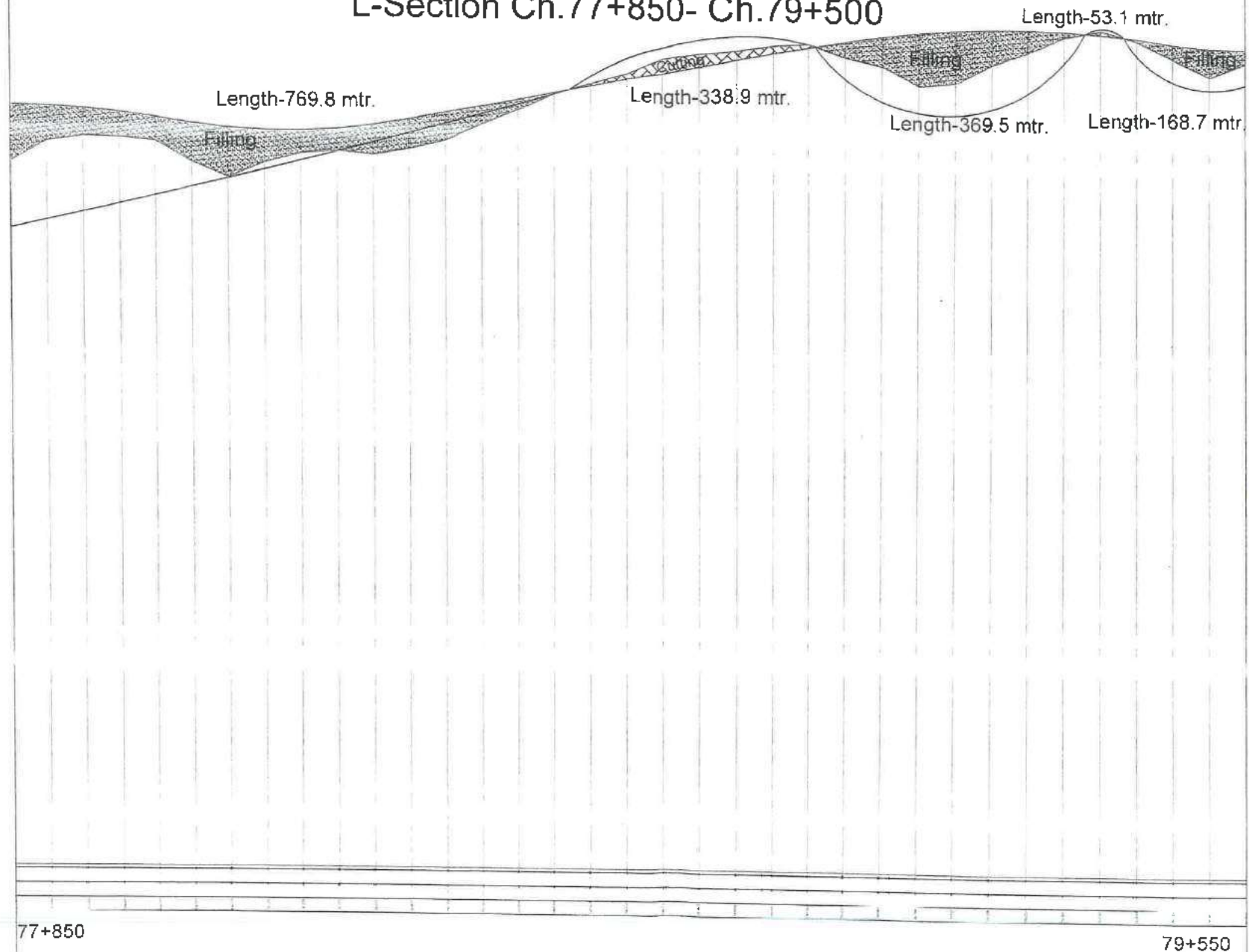
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Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ramgarh



Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.
L-Section Ch.77+850- Ch.79+500



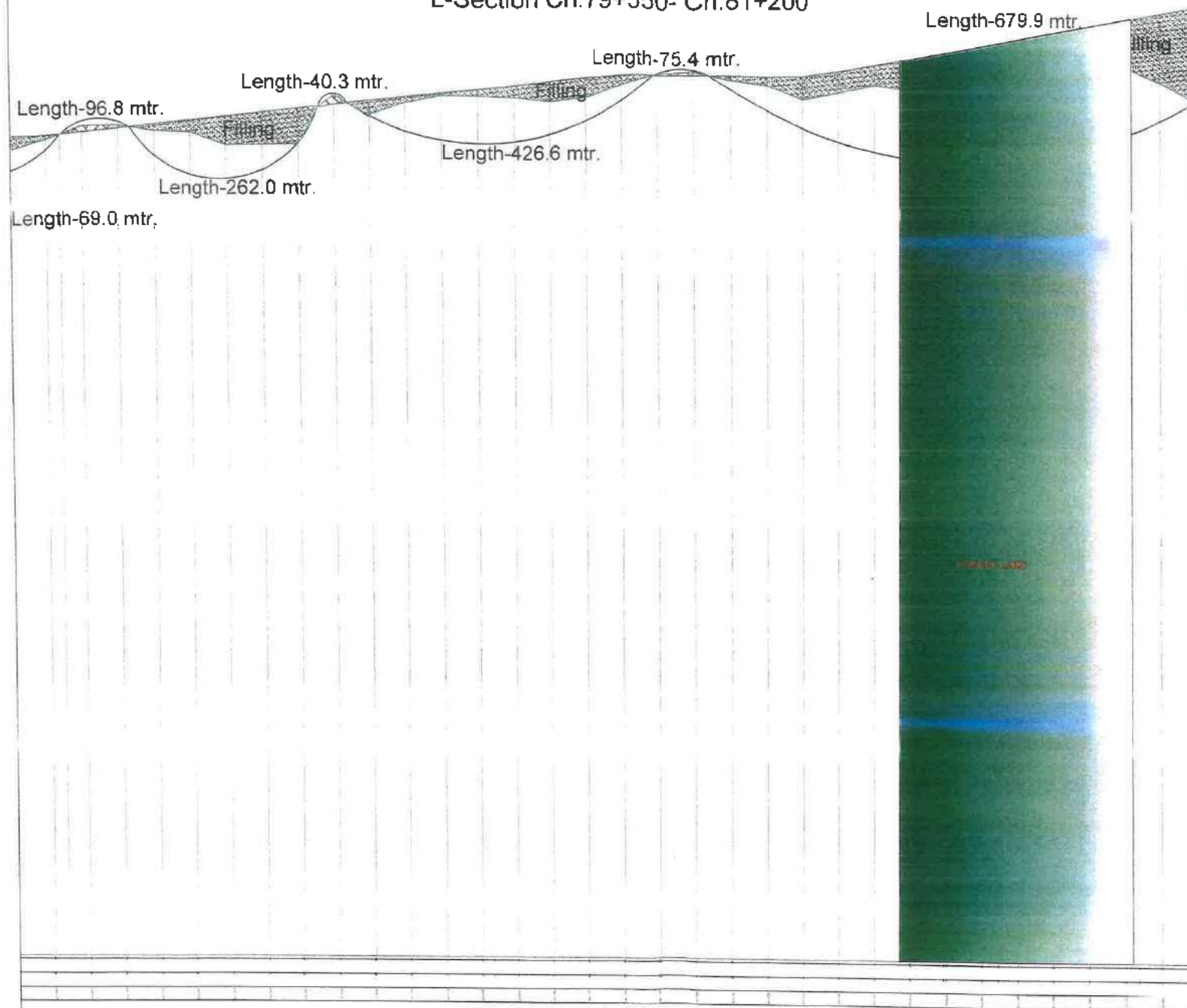
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Divisional Forest Officer
Ranchi Forest Division, Ranchi

Project Director
NHAI-PIU, Ranchi



Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.
L-Section Ch.79+550- Ch.81+200



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Divisional Forest Officer
Ranchi Forest Division, Ranchi

Amul
Project Director
NHAI-PIU, Ramgarh



FORM -I
(For linear projects)

Government of Jharkhand
Office of the District Collector
(Revenue Sec)

Ref. No

Dated.....2022 / X-13/2021

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forest (MoEF) Government of India's letter no.II- 9/98-FC(pt.) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the scheduled rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purposes react with MoEF's letter dated 5th February 2013 wherein MoEF issued certain relaxation in respect of linear projects. It is certified that 4.2557 hectares of forest land (G.M.J.J). Proposed to be delivered in favour of *National Highways Authority of India (NHAI) for Bharatmala Project- Gola-Ormanjhi, Section Expansion in Ranchi District* falls within Jurisdiction of *Eid (2.1716 hec.) village in Angara Circle and Kute (0.0972 hec), Koalu (1.5246 hec) & Charu (0.4623 hec) villages in Ormanjhi Circle.*

Sl. no	Circle	Mauja	Thana no.	Khata no.	Plot no.	GMJJ	Notified Forest	Total Area (in Ha.)	Nature of Land as per Forest Map
1	Angara	Eid	01	61	1012	0.7610	0.0404	0.8014	Notified Forest & GMJJ
					991	1.3702	0	1.3702	GMJJ
					Total	2.1312	0.0404	2.1716	
2	Ormanjhi	Kute	85	113	354	0.0041	0	0.0041	GMJJ
				113	355	0.0162	0	0.0162	GMJJ
				79	443	0.0769	0	0.0769	GMJJ
				Total	0.0972	0	0.0972		
		Koalu	65	18/19	13	0.1502	0.6477	0.7979	Notified Forest & GMJJ
					157	0.645	0	0.6450	GMJJ
					160	0	0.0400	0.0400	Notified Forest
					174	0	0.0283	0.0283	Notified Forest
					199	0	0.0134	0.0134	Notified Forest
					Total	0.7952	0.7294	1.5246	
	Charu	76	84		1110	0.4169	0	0.4169	GMJJ
					1540	0.0454	0	0.0454	GMJJ
					Total	0.4623	0	0.4623	
					G.Total	3.4859	0.7698	4.2557	

It is further certified that:

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire 4.2557 hectares of forest area proposed for *Bharatmala Project-Gola-Ormanjhi, Section Expansion*. A copy of all consultations and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub- Divisional Level Committee(s) and the District Level Committee are enclosed.
 - The diversion of forest land for facilities managed by the Government as required under section -3(2) of the FRA have been completed and the Gram Sabha have been given their consent to it;
 - The proposal does not involve recognized rights to Primitive Tribal Groups and Pre-agriculture communities.
- Encls:- As above.

Additional Collector,
Ranchi

Deputy Commissioner
Ranchi (Jharkhand)

Memo No. 391(1) Dated 10/09/2022, X-13/2021

Copy To:

1. Additional Chief Secretary, Dept of Forest, Enviroment & Climate Change, Govt. of Jharkhand
Nepal House, Doranda, Ranchi for Kind Information
2. Additional Chief Secretary Revenue and Land Reform Deppt. Government of Jharkhand Ranchi
for information & necessary action.
3. Secretary Welfare Deppt. Government of Jharkhand Ranchi for Information & necessary
action.
4. Commissioner North Chotanagpur Division Ranchi for Information & necessary action.
5. Divisional Forest Officer Ranchi, Ranchi Division for Information & necessary action.
6. SDM Sadar, Ranchi for Information & necessary action.
7. Regional Officer, NHAI, Regional office, Ranchi for Kind Information.
8. Project Director, NHAI, Kandra, P.O-Bhitia, P.S.-Govindpur, Dhanbad for Kind Information.
9. District Welfare officer Ranchi for Information & necessary action.
10. Circle officer Angara/Ormanjhi, Ranchi for Information & necessary action.

[Signature]
10/9/22
Additional Collector,
Ranchi

[Signature]
10/9/2022
Deputy Commissioner
Ranchi (Jharkhand)

Mail Sent
13/09/22

दिनांक 06.08.2022 को अनुमण्डल स्तरीय वनाधिकार समिति की बैठक अनुमण्डल पदाधिकारी, सदर रॉंची की अध्यक्षता में हुई।

उपस्थिति :- पंजीनुसार।

सर्व प्रथम सदस्यमण का स्वागत अनुमण्डल पदाधिकारी, सदर रॉंची द्वारा किया गया। प्रमारी अनुमण्डल कल्याण पदाधिकारी, सदर रॉंची द्वारा वनाधिकार अधिनियम के तहत निम्नलिखित योजनाओं के लिए प्राप्त प्रतिवेदन की जानकारी दी गई :-

(1) वनाधिकार अधिनियम के तहत भारतमाला परियोजनान्तर्गत कि०मी०- 71.323 से कि०मी०- 81.450 तक एन०एच 320B (गोला- ओरमाझी रोडेशन) के चौड़ीकरण/चार लेन के निर्माण हेतु संशोधित सूचीनुसार रॉंची जिलान्तर्गत ओरमाझी एच अनगडा अंचल में पड़ने वाले वन भूमि के संबंध में भूमि (जंगल-झाड़ी) के लिए अनापत्ति प्रमाण पत्र निर्गत करने हेतु अंचलाधिकारी, ओरमाझी के पत्रांक 865 (ii) दिनांक 11.10.2021 एच अंचलाधिकारी, अनगडा के पत्रांक 797 (ii) दिनांक 9.10.2021 द्वारा प्रतिवेदन प्राप्त है। प्राप्त प्रतिवेदन में उल्लेखित भूमि की जांच वन विभाग द्वारा किया गया है, जिससे संबंधित प्रतिवेदन वन प्रमण्डल पदाधिकारी, रॉंची वन प्रमण्डल, रॉंची के पत्रांक 2925 दिनांक 13.7.2022 द्वारा प्राप्त है। भूमि का विवरण निम्नवत है :-

Sl. No.	Anchal	Village Name	Thana No.	Khata No.	Plot No.	GM Jungal Jhari	Notified Forest	Total Area (in Ha.)	Nature of Land as per FOREST Map
1	Angara	Id-01	01	61	1012	0.7610	0.0404	0.8014	Notified Forest & GMJJ
					991	1.3702	0	1.3702	GMJJ
					Total	2.1312	0.0404	2.1716	
2	Ormanjhi	Kute	85	113	354	0.0041	0	0.0041	GMJJ
				113	355	0.0162	0	0.0162	GMJJ
				79	443	0.0769	0	0.0769	GMJJ
					Total	0.0972	0	0.0972	
		Koalu	65	18/19	13	0.1502	0.6477	0.7979	Notified Forest & GMJJ
					157	0.645	0	0.6450	GMJJ
					160	0	0.0400	0.0400	Notified Forest
					174	0	0.0283	0.0283	Notified Forest
					199	0	0.0134	0.0134	Notified Forest
					Total	0.7952	0.7294	1.5246	
	Charu	76	84		1110	0.4169	0	0.4169	GMJJ
					1540	0.0454	0	0.0454	GMJJ
					Total-	0.4623	0	0.4623	
					Grand Total-	3.4859	0.7698	4.2557	

बैठक में सर्व सम्मति से इसे अनुमोदित करते हुए जिला स्तरीय वनाधिकार समिति को भेजने का निर्णय लिया गया।

अन्त में सधन्यवाद बैठक की कार्यवाही समाप्त की गई।

Dupl
12/08/22
अनुमण्डल पदाधिकारी,
सदर रॉंची।

ज्ञापांक 58 / क०, दिनांक 13.08.22

प्रतिलिपि- जिला कल्याण पदाधिकारी, रॉंची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

प्रतिलिपि- संबंधित अंचलाधिकारियों (ओरमाझी एच अनगडा) को सूचनार्थ प्रेषित।

प्रतिलिपि- उपायुक्त, रॉंची/अपर समाहर्ता, रॉंची को सादर सूचनार्थ प्रेषित।

प्रतिलिपि- वन प्रमण्डल पदाधिकारी, रॉंची वन प्रमण्डल, रॉंची को सूचनार्थ प्रेषित।

Dupl
12/08/22
अनुमण्डल पदाधिकारी,
सदर रॉंची।

कार्यालय, अंचल अधिकारी, अनगड़ा, राँची।

प्रमाण-पत्र

1. प्रमाणित किया जाता है कि मौजा- ईद, थाना सं०- 01, खाता सं०- 61, प्लॉट सं०- 1012, 991 रकबा- 0.8014 हेक्टेयर एवं 1.3702 हेक्टेयर कुल रकबा- 2.1716 हेक्टेयर भूमि आर० एस० खतियान में गैर मजरूवा मालिक जंगल-झाड़ी भारतमाला परियोजना अन्तर्गत कि०मी० 71.323 से कि०मी० 81.450 तक एन०एच०बी० (गोला-ओरमाँडी सेक्शन) के चौड़ीकरण/चारलेन के निर्माण हेतु अधिग्रहित होने वाली जंगल/गैरमजरूवा जंगल-झाड़ी भूमि के अपयोजन हेतु अनुसूचित जनजाति एवं अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम अन्तर्गत 2006 के तहत ग्राम सभा की कार्यवाही पूर्ण कर ली गई है। इस संबंध में की गई बैठक से संबंधित ग्राम सभा की कार्यवाही/ पारित प्रस्ताव की अभिप्रमाणित प्रति संलग्न है।
2. प्रमाणित किया जाता है कि वनभूमि एवं गैर मजरूवा खास / जंगलझाड़ी अपयोजन का प्रस्ताव प्रस्तावित क्षेत्र में पड़ने वाले वन निवासियों के ग्रामसभा के समक्ष रखा गया। परियोजना की विस्तृत तथा अनुवर्ती प्रभाव के संबंध में वस्तुस्थिति स्थानीय भाषा/ मातृभाषा में ग्रामसभा को व्याख्यापित कर दी गयी है।
3. प्रमाणित किया जाता है। वनभूमि एवं गैर मजरूवा खास/ जंगलझाड़ी अपयोजन प्रस्ताव के संबंध में चर्चा की गई।
4. प्रमाणित किया जाता है कि आदिम जनजाति समूह एवं आदिम कृषक समुदाय के अधिकार अनुसूचित जनजाति एवं अन्य परम्परागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 की धारा- 3(2)(e) के अनुसार विशेष रूप से रक्षित किया गया है।
5. प्रमाणित किया जाता है कि सरकार के द्वारा दिये जाने वाले सुविधाओं में संबंधित वनभूमि एवं गैर मजरूवा खास/जंगलझाड़ी अपयोजन का प्रस्ताव (यदि कोई हो) के संबंध में अनुसूचित जनजाति एवं अन्य परम्परागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 की धारा- 3(2) के तहत ग्राम सभा की कार्यवाही पूर्ण कर ली गई है। तथा ग्रामसभा द्वारा इस पर सहमति व्यक्त की गई है।


राजस्व-उप-निरीक्षक


अंचल निरीक्षक


अंचल अधिकारी
अनगड़ा, राँची।

प्रमाण-पत्र

1. प्रमाणित किया जाता है कि बिरेन्द्र मुंडा परियोजना (परियोजना का नाम) के लिए प्रस्तावित 13.157.160.174.177 वन भूमि (वन भूमि का क्षेत्रफल) के संबंध में 7977.4450.4400.283.134 अनुसूचित जनजाति एवं अन्य परम्परागत वन निवासी (वन अधिकारी की मान्यता) अधिनियम, 2006 के अंतर्गत settlement of rights की प्रक्रिया पूर्ण कर ली गई है। इस संबंध में की गई बैठक से संबंधित अभिलेख संलग्न है।
2. प्रमाणित किया जाता है कि वनभूमि अपयोजन का प्रस्ताव प्रस्तावित क्षेत्र में पड़ने वाले वन निवासियों के ग्राम सभा के सम्मुख रखा गया। परियोजना की विस्तृत विवरणी तथा अनुवर्ती प्रनाव के संबंध में वस्तुस्थिति भाषा/मातृभाषा में ग्राम सभा की व्याख्यापित कर दी गई है।
3. प्रमाणित किया जाता है कि वनभूमि अपयोजन के प्रस्ताव के संबंध में की गई चर्चा एवं लिए गए निर्णय के समय ग्राम सभा न्यूनतम पचास प्रतिशत सदस्य की उपस्थिति का कोरम पूर्ण था।
4. प्रमाणित किया जाता है कि आदि जनजाति समूह एवं आदिम कृषक समुदाय के अधिकार अनुसूचित जनजाति एवं अन्य परम्परागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 की धारा-(1)(e) के अनुसार विशेष रूप से रक्षित किया गया है।
5. प्रमाणित किया जाता है कि सरकार के द्वारा दिए जानेवाली सुविधाओं से संबंधित वनभूमि अपयोजन का प्रस्ताव (यदि कोई हो) के संबंध में अनुसूचित जनजाति एवं अन्य परम्परागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम 2006 की धारा-3(2) के तहत प्रक्रिया पूर्ण कर ली गई है तथा ग्राम सभा द्वारा इसपर सहमति व्यक्त की गई है।

अभिप्राय
अंशतः अधिकांश
ओरमंडी (सैंधी)

अध्यक्ष - बिरेन्द्र मुंडा
NOC - 6200678910
ग्राम स्तरीय वन अधिकार समिति

अधिनियम 2006

साचिव - परमेश्वर मुंडा

NOC - 5969455800

ANNEXTURE-09

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 01 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that Legal status of forest land shall not be changed.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-10

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 02 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) has already deposited the CA demand raised by forest department which will be taken up by the Forest Department in degraded forest land as per mentioned condition. In this regards, user agency undertakes that if forest department demands any deficit amount, same shall be deposited by user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-11

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 03 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that additional amount of NPV of diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be deposited by the user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-12

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 04 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the trees having diameter less than 7 inches is being translocated as per the set standards of the High-Powered Committee constituted in the State of Jharkhand that governs the tree felling under the supervision/guidance of forest department representative.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-13

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 05 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertake that we will be felling only unavoidable trees under the supervision and direction of the State Forest Department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-14

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 06 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh



कार्यालय :- वन प्रमण्डल पदाधिकारी, राँची वन प्रमण्डल, राँची।

वन भवन, डोरण्डा, राँची- 834002 (झारखंड)

E-mail : dfo-ranchi@gov.in Ph. No. 0651-2480265 (O), FAX 0651-2482386



जहाँ है हरियाली
वहाँ है खुशहाली

पत्रांक:- 4528 दिनांक:- 18-10-2023

सेवा में,

परियोजना निदेशक,
एन0एच0ए0आई0, धनबाद।

विषय:-

भारतीय राष्ट्रीय राजमार्ग NH-23 भारतमाला परियोजना (जैनामोड़-गोला-ओरमांझी खण्ड) पथ निर्माण हेतु कुल-99.7862 हे0 (बोकारो वन प्रमण्डल अंतर्गत 66.5436 हे0, रामगढ़ अंतर्गत 28.9869 हे0 एवं राँची वन प्रमण्डल, राँची अंतर्गत 4.2557 हे0) वनभूमि अपयोजन प्रस्ताव के संबंध में।

प्रसंग:-

सहायक वन संरक्षक, राँची वन प्रमण्डल, राँची का पत्रांक-3990 दिनांक-16.10.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में सूचित करना है कि सहायक वन संरक्षक, राँची वन प्रमण्डल, राँची ने प्रसंगाधीन पत्र के द्वारा Elephant under pass एवं Elephant over pass का स्थलीय जाँच प्रतिवेदन समर्पित किया है, जिसकी प्रति इस पत्र के साथ संलग्न कर सूचनार्थ एवं आवश्यक कार्रवाई हेतु भेजी जा रही है।

अनु0-यथोक्त।

आपका विश्वासी

वन प्रमण्डल पदाधिकारी,
राँची वन प्रमण्डल, राँची।

18/10/23



कार्यालय:- वन प्रमण्डल पदाधिकारी, राँची वन प्रमण्डल, राँची।

वन भवन, डोरण्डा, राँची- 834002 (झारखण्ड)

E-mail : dfo-ranchi@gov.in Ph. No. 0651-2480265 (O), FAX 0651- 2482386



जहाँ है हरियाली
वहाँ है खूबसूरती।

पत्रांक:- 3990 दिनांक:- 16-10-2023

सेवा में,

वन प्रमण्डल पदाधिकारी,
राँची वन प्रमण्डल, राँची।

विषय :- भारतमाला परियोजना (जैनामोड़-गोला-ओरमांझी खण्ड) पथ निर्माण हेतु राँची वन प्रमण्डल, राँची अंतर्गत अपयोजित होने वाली वनभूमि रकबा 4.2557 हे० का स्थलीय जाँच के संबंध में।

प्रसंग :- भवदीय से दूरभाष पर प्राप्त निर्देश।

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संदर्भ में सादर सूचित करना है कि दिनांक 07.10.2023 को भारतमाला परियोजना (जैनामोड़-गोला-ओरमांझी) पथ निर्माण के संरेख में पड़ने वाले हाथी आवागमन क्षेत्र के लिए प्रस्तावित Elephant under pass तथा Elephant over pass स्थल का संयुक्त निरीक्षण राँची पश्चिमी वन क्षेत्र, काँके के वन क्षेत्र पदाधिकारी, वनपाल, वनरक्षी एवं प्रयोक्ता अभिकरण के प्रतिनिधियों की उपस्थिति में किया गया। विस्तृत निरीक्षण प्रतिवेदन अलग से इस पत्र के साथ संलग्न है।

अतः श्रीमान् को सूचनार्थ एवं आवश्यक कार्रवाई हेतु समर्पित।

अनुलग्नक-यथोक्त।

विश्वासभाजन,

[Signature]
सहायक वन संरक्षक,
राँची वन प्रमण्डल, राँची।



दिनांक 07.10.2023 को भारतमाला परियोजना पथ निर्माण के अंतर्गत पड़ने वाले

हाथी आवागमन क्षेत्र का संयुक्त निरीक्षण किया गया :

संयुक्त निरीक्षण दल के सदस्य

1. श्री गोरखनथ यादव,
सहायक वन संरक्षक, रांची वन प्रमण्डल, रांची।
2. श्री ए0 के0 सिंह, परियोजना निदेशक कार्यान्वयन ईकाई,
NHAI, Ramgarh
3. श्री जितेन्द्र कुमार,
वन क्षेत्र पदाधिकारी, रांची पश्चिमी वन क्षेत्र, काँके।
4. श्री प्रशांत टन्डन, अमीन, NHAI, Ramgarh
5. श्री सुमन्त वर्णवाल, प्रभारी वनपाल।
6. श्री शेखर तिग्गा, वनरक्षी।
7. श्री संजय नायक, वनरक्षी।
8. श्री उमा शंकर सिन्हा,
महाप्रबंधक, PRA India.
9. श्री मोहन मिश्रा,
परियोजना प्रबंधक, PRA India.
10. श्री प्रत्युश,
Authorised Forest Consultant on behalf of concessnior.

उपर्युक्त सभी सदस्यों के साथ दिनांक 07.10.2023 को भारतमाला परियोजना अंतर्गत NH-320B गोला-ओरमांझी पथ Package-II के संरेख में पड़ रहे वन्यप्राणियों के आवागमन हेतु स्थल का संयुक्त निरीक्षण किया गया। जहाँ पर हाथी के आवागमन हेतु Elephant under pass तथा Elephant over pass प्रस्तावित किया गया है का स्थलीय जाँच किया गया, जिसमें पाया गया कि EOP चेनेज KM 71+480 ग्राम-ईद Co-ordinates N23° 29'38.875139"/E85°35'20.695828" है एवं EUP चेनेज KM 72+950 पर ग्राम-रोहण्डी एवं चाढू के बीच में Co-ordinates N23° 29'35.369809" /E85°34'29.909121" पर स्थित है।

निरीक्षण के क्रम में पाया गया कि EUP का Span 30 मी0 एवं Ground clearance 4.5 मीटर प्रस्तावित है, जिसमें निम्नवत् सुधार की आवश्यकता है :-

1. EUP का Span 30X2= 60 मीटर न्यूनतम होना चाहिए।
2. Ground clearance 7 मीटर न्यूनतम होना चाहिए, ताकि वन्यजीवों का आवागमन निवारध रूप से हो सके।

EOP के निरीक्षण में पाया गया कि Over Pass की प्रस्तावित लम्बाई 30 मीटर है, जो न्यूनतम 60 से 90 मीटर होना चाहिए। ये भी देखा गया कि प्रस्तावित EOP के कुछ दूरी पर High Tension विद्युत तार गुजर रहा है। Elephant के निर्माण Over Pass में इसका ध्यान रखना अति आवश्यक है।


सहायक वन संरक्षक,
रांची वन प्रमण्डल, रांची।


श्री गोरखनाथ यादव,
सहायक वन संरक्षक,
रांची वन प्रमण्डल, रांची।


श्री जितेन्द्र कुमार,
वन क्षेत्र पदाधिकारी,
रांची पश्चिमी वन क्षेत्र, काँके ।


श्री सुमन्त वर्णवाल,
प्रभारी वनपाल, ओरमांझी ।

श्री शेखर तिग्गा,
वनरक्षी, ओरमांझी।

श्री संजय नायक,
वनरक्षी, ओरमांझी।


श्री उमाशंकर सिन्हा,
महाप्रबंधक, PRA, India Pvt. Ltd.


श्री मोहन मिश्रा,
परियोजना प्रबंधक, PRA, India Pvt. Ltd.


श्री प्रत्युष,
Authorised Forest Consultant on behalf
of Concessionaire

श्री प्रशांत टंडन,
अमीन, NHAI, PIU रामगढ़।


अधिकृत प्रतिनिधि
NHAI, PIU रामगढ़।

ANNEXTURE-15

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 07 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the suitable under passes for animal movement in Forest Area/ Road stretch as per recommendations of concerned DFO will be provided after due approval of proposal from NHAI competent authority.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-16

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 08 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that unrestricted access will be provided to Forest Department vehicles for Managing forests & wildlife during project operation phase.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.

Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-17

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 09 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that strip plantation on both sides of the road shall be raised as per the IRC norms.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-18

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 10 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-19

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 11 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the following conditions shall be ensured as mentioned in In-principal approval :-

- (a) No labor camp shall be established on the forest land.
- (b) The User Agency shall provide alternate fuels preferably LPG to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.
- (c) Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-20

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 12 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the following conditions shall be ensured as mentioned in In-principal approval :-

- (a) The period of diversion under this approval shall be co-terminus with the period of the project life.
- (b) The forest land shall not be used for any purpose other than that specified in the project proposal.
- (c) The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior Approval of the Ministry of Environment, Forest & Climate Change.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-21

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 13 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, Protection and development of forest & wildlife shall be ensured by this department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
परियोजना निदेशक का कार्यालय, परियोजना कार्यान्वयन इकाई, एन.एच.ए.आई.
कॉम्प्लेक्स, कान्द्रा, पोस्ट भीतीया, थाना गोविन्दपुर, धनबाद-८२८१०६ (झारखण्ड)

National Highways Authority of India

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

Office of the Project Director, Project Implementation Unit, NHAI Complex
Kandra, P.O. Bhitia, P.S. Govindpur, Dhanbad-828109 (Jharkhand)

Ph. : 06540-283090, E-mail : dhan@nhai.org / nhaidhanbad@yahoo.in



Ref : 11015/5/PD/DHN FLT/NH320/992

Dec. 1 2023

To,

Divisional Forest Officer,
Ramgarh, Jharkhand.

Sub: In-principle (Stage-I) approval of Central Government under Forest (Conservation) Act 1980 for diversion of 99.7862 ha (Bokaro FD – 66.5436 ha, Ramgarh FD – 28.9869 ha & Ranchi FD – 4.2557 ha) of forest land in favour of NHAI, PIU Dhanbad for construction of Road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ramgarh & Ranchi district of Jharkhand.

Submission of Stage-I Clearance & compliance for issuance of Working Permission.

Ref: 1) This office letter no. 964 dated 23.11.2023.

2) MoEF&CC, Integrated Regional Office, GoI letter no. FP/JH/Road/146250/2021/1177 dated 13.06.2023.

Sir,

Please refer MoEF&CC letter dated 13.06.2023 vide which "in-principle" approval of Central Government, was conveyed for of 99.7862 ha (Bokaro FD – 66.5436 ha, Ramgarh FD – 28.9869 ha & Ranchi FD – 4.2557 ha) of forest land in favour of NHAI, PIU Dhanbad for construction of road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ramgarh & Ranchi district of Jharkhand. The above referred approval is subject to fulfillment of certain conditions.

In this regard, it is hereby conveyed that conditions as laid down in the above approval has either been fulfilled or we hereby undertake to fulfill them, at appropriate time during the execution of work for subject stretch Jaina More to Gola (NH-23), PKG-I under PIU-Dhanbad & Gola to Ormanjhi (NH-320B), PKG-II under PIU-Ramgarh.

In continuation to this office letter dated 23.11.2023 as per requirement the revised para-wise compliance is hereby submitted, details are as under :-

S.N	Conditions	Remarks of PIU						
A. Conditions which need to be complied prior to handing over of forest land by the State Forest Department.								
1	The cost of Compensatory afforestation on the CA land (201.885 ha) at the prevailing wage rates as per Compensatory afforestation scheme (including) the cost of Survey, demarcation and erection of Permanent pillars etc. as required for securing the land against encroachment) including that required for patch plantation shall be deposited in advance with the State Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	As demanded by DFO-Ramgarh (Lt. no. 1988 dt. 27.09.2023) to fulfill the condition No. 1, 2, 3 & 4 the following amount after verification from Nodal Officer forest department at Parivesh Portal on 29.09.2023, has been deposited by this office (Annexure 1& 2) :- <table border="1"> <thead> <tr> <th>Forest Division</th><th>Forest Area (in Ha.)</th><th>Deposited Amount (in Rs.)</th></tr> </thead> <tbody> <tr> <td>Ramgarh</td><td>28.9869</td><td>Rs. 92997068/- out of which Rs. 25148300.00 for CA Amount.</td></tr> </tbody> </table>	Forest Division	Forest Area (in Ha.)	Deposited Amount (in Rs.)	Ramgarh	28.9869	Rs. 92997068/- out of which Rs. 25148300.00 for CA Amount.
Forest Division	Forest Area (in Ha.)	Deposited Amount (in Rs.)						
Ramgarh	28.9869	Rs. 92997068/- out of which Rs. 25148300.00 for CA Amount.						

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2	The state Government shall charge the Net Present Value (NPV) for the 99.7862 ha forest area to be diverted under this proposal from the user Agency as per the order of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA No. 566 in WP (c) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt. II) dated 18/09/2003, as well as letter No. 5-2/2006-FC dated 03/10/2006, 5-3/2007-FC dated 05/02/2009 and letter No. 5-3/2011-FC (Vol-I) dated 06/01/2022 in this regard.	As per demand of DFO, Ramgarh letter No. 1988 dated 27.09.2023 Rs. 92997068 has been deposited out of which 35613016.00 corresponds to NPV amount deposited on Rs. 29.09.2023 in CAMPA A/c of forest department (Annexure 1 & 2).
3	As recommended by the Regional Empowered Committee, a Wildlife Management Plan and Soil & Moisture Conservation Plan should be prepared by concerned DFO and approved by the PCCF (Wildlife) & Chief Wildlife Warden, Jharkhand for implementing them at project cost. The duly approved Plan should be submitted in IRO, MoEF&CC, and Ranchi before issuance of final approval.	As per demand of DFO, Ramgarh letter No. 1988 dated 27.09.2023 vide which Rs. 92997068.00 deposited out of which Rs. 32235752.00 corresponds to interim Wildlife Management Plan & Soil Moisture Conservation Plan amount deposited on 29.09.2023 in CAMPA A/c of forest department (Annexure- 1, 2 & 3). Rest amount as per approved plan would be deposited as soon as possible.
4	The Committee suggested that the patches left-over in between existing and proposed road, at certain locations, should also be taken up for plantation by SFD at project cost. This cost should also be included in CA levies.	As per demand of DFO, Ramgarh letter No. 1988 dated 27.09.2023 vide which Rs. 92997068.00 deposited out of which Rs. 19022600.00 corresponds to left-over plantation work in such location identified by SFD during construction stage at project cost the cost is included in CA levies. (Annexure- 1, 2).
5	All the funds received from the user agency under the Project shall be transferred / deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/)	The demanded fund from Forest Department has been deposited to CAMPA fund through e-portal (https://parivesh.nic.in/) (Annexure-2)
6	The user Agency should formulate & implement Soil Moisture Conservation work around the proposed road so that small streams are disturbed due to the Construction of the Highway.	Same will be complied during construction stage of Highway (Annexure-4).
7	A-Muck-Disposal Plan should be prepared by User Agency to ensure that the muck/ wastage generated should be disposed of in proper manner. Such plan, duly approved by the concerned DFO, should be submitted to this office before soliciting Working Permission.	Muck Disposal Plan has been approved by DFO-Ramgarh vide letter No. 2527 dated 21.11.2023 and 2248 dated 16.10.2023 for Package-I and II respectively (Annexure-5 & 6).
8	The FRA certification as per Ministry guidelines shall be submitted before the issuance of final approval. The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector including Gram-Sabha proceedings.	FRA certificate issued by concerned District Collector in prescribed form after Gram-Sabha proceedings is enclosed herewith, details are mentioned below : Ramgarh Division :- FRA – Memo no. 320 dt. 25.03.2023. FRA – Memo no. 164 dt. 07.02.2023. (Annexure-7)

9	The KML files of the forest area to be diverted and the CA area shall be uploaded on the e-Green watch portal with all requisite details and submitting compliance report for seeking Stage-II approval.	Has been uploaded.
10	Violation of any of these conditions will amount to Violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of Comprehensive of Forest (Conservation) Act, 1980 as issued by this Ministry letter No. 5-2/2017-FC dated 28.03.2019.	It will be ensured by the user agency that there shall be no violation of any of these conditions. (Annexure-8)
11	The Compliance report shall be uploaded on e-portal (https://parivesh.nic.in/)	It will be ensured by the user agency that compliance report will be uploaded on e-portal (https://parivesh.nic.in/).

B. Conditions which need to be Strictly complied on field after handing over of forest land to the User Agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval :

1	Legal status of the forest land shall remain unchanged.	Legal status of forest land will not be changed. In this regards undertaking enclosed (Annexure-09).
2	Compensatory afforestation shall be taken up by the Forest Department over 201.89 ha. degraded forest land (Sites- Mauza-Lawalong, Thana- Gomia/39, Plot No. 254, 1, 18, 343 (Area - 50.50 ha), Mauza-Gomikarmatand, Thana- Gomia/103, Plot No. 467, 126, 240 (Area- 20.13 ha), Mauza- Dania, Thana- Gomia/32, Plot No. 560, 561 (Area- 20.87 ha), Mauza- Kurknaio, Thana- Gomia/94, Plot No. 728, 1236 (Area- 29.32 ha) and Mauza-Khakhand, Thana - Gomia/38, Plot No. 414, 418 (Area- 13.20 ha) under Bokaro Forest Division, Mauza- Darid, Thana- Peterwar/65, Plot No. 654 (Area- 7.18 ha), Mauza- Dantu, Thana- Kasmar/64, Plot No. 1458 (Area- 2.63 ha), Mauza- Sonhar, Thana- Kasmar/63, Plot No. 275, 252, 480, 497, 340 (Area- 8.70 ha), Mauza- Sonpura, Thana- Kasmar/62, Plot No. 323, 324, 305 (Area- 7.64 ha), Mauza- Kajrum, Thana- Peterwar/68, Plot No. 209 (Area- 5.25 ha), Mauza- Haslata, Thana- Kasmar/69, Plot No. 388 (Area- 6.70 ha), Mauza- Takaha, Thana- Peterwar/27, Plot No. 234 (Area- 4.97 ha) & Mauza- Banda, Thana- Gola/9, Plot No. 1967, 1984, 210 (Area- 15.95 ha) under Ramgarh Forest Division and Mauza- Balu, Thana- Ranchi/29, Plot No. 25 (Area- 9.55 ha) under Ranchi Forest Division) at the cost of the user agency. As far as possible, a mixture of local native species shall be planted and monoculture of any species, especially non-native species should be avoided.	Demand raised by forest department for CA has already deposited in CAMPA A/C on 05.10.2023. In this regards, undertaking is enclosed herewith for deficit amount if any, shall be deposited by the user agency. (Annexure-10)
3	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization, the difference amount will be deposited by this office to

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	receipt of the report from the Expert Committee, shall also be charged by the State Government from the User Agency. The User Agency shall furnish an Undertaking to this effect.	the forest department. In this regards, undertaking attached (Annexure-11)
4	The trees having diameter less than 7 inches shall be translocated as per the set standards of the High-Powered Committee constituted in the State of Jharkhand that governs the tree felling.	In this regards undertaking is being enclosed and it is being ensured that trees having diameter less than 7 inches is being translocated. (Annexure-12)
5	User Agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision and direction of the State Forest Department; the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.	We are felling only unavoidable trees under supervision of State Forest Department. (Annexure-13)
6	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.	In this regards undertaking enclosed. (Annexure-14)
7	The user agency shall provide suitable under passes for animal movement in Forest Area/ Road stretch as per recommendations of concerned DFO.	In this regards undertaking enclosed and some interim instruction also provided by DFO-Ramgarh vide letter No. 2023 dated 30.09.2023. It will also be a part of wildlife management plan. (Annexure-15)
8	The NHA shall provide unrestricted access to Forest Department vehicles for Managing forests & wildlife during project operation phase.	In this regards undertaking enclosed. (Annexure-16)
9	The User Agency shall raise strip plantation on both sides of the road as per The IRC norms.	In this regards undertaking enclosed. (Annexure-17)
10	The layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.	In this regards undertaking enclosed. (Annexure-18)
11	(a) No labor camp shall be established on the forest land. (b) The User Agency shall provide alternate fuels preferably LPG to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas. (c) Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency.	In this regards undertaking enclosed. (Annexure-19)
12	(a) The period of diversion under this approval shall be co-terminus with the period of the project life. (b) The forest land shall not be used for any purpose other than that specified in the project proposal. (c) The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior Approval of the Ministry of Environment, Forest & Climate Change.	In this regards undertaking enclosed. (Annexure-20)
13	Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to	In this regards undertaking enclosed. (Annexure-21)

Handwritten signature

time in the interest of conservation, Protection and development of forest & wildlife.	
--	--

In view of the above, it is hereby requested to kindly make necessary arrangement for issuance of working permission for the above mentioned subject project at the earliest so that project may be completed on schedule time.

Thanking you,

Yours faithfully,

R.K. Verma
(R.K Verma)

Project Director

Encl: As above (8 set).

Copy to:

1. Regional Officer, RO, Ranchi – for kind information please.
2. Project Director, NHAI, PIU-Ramgarh – for information and necessary action please.



कार्यालय:- वन प्रमंडल पदाधिकारी, रामगढ़ वन प्रमंडल, रामगढ़।

(रांची रोड नियर बी.आर.एल. गेट, पो-मरार, जिला-रामगढ़ पिन-829117)

Email id - dfo-ramgarh@gov.in

Mobile No- 8987790306

पत्रांक:- 1988

दिनांक:- 27/9/23

सेवा में,

परियोजना निदेशक,
एन०एच०ए०आई०,
रामगढ़/धनबाद।

- विषय :-** भारतीय राष्ट्रीय राजमार्ग-NH-23 and 320B भारतमाला परियोजना (जैनामोड़-गोला-ओरमांझी खण्ड) निर्माण हेतु कुल 99.7862 हे० (रामगढ़ वन प्रमंडल अन्तर्गत 28.9869 हे०) वन भूमि अपयोजन प्रस्ताव के संबंध में।
- प्रसंग:-** 1. भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, एकीकृत क्षेत्रीय कार्यालय, रांची का पत्रांक- FP/JH/Road/146250/2021/1177 dated 13.06.2023
2. इस कार्यालय का पत्रांक- 1363 दिनांक 06.07.2023 एवं पत्रांक 1731 दिनांक 23.08.2023
3. परियोजना निदेशक, रामगढ़ ईकाई का पत्रांक- 527 दिनांक 11.08.23 एवं पत्रांक- 735 दिनांक 21.08.2023

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संबंध में सूचित करना है कि भारतमाला परियोजना के अन्तर्गत जैना मोड़-गोला-ओरमांझी सेक्शन के चौड़ीकरण/फोरलेन के तहत रामगढ़ वन प्रमंडल अन्तर्गत 28.9869 हे० वन भूमि अपयोजन प्रस्ताव के क्रम में भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, एकीकृत क्षेत्रीय कार्यालय, रांची का पत्रांक- FP/JH/Road/146250/2021/1177 dated 13.06.2023 द्वारा प्रथम चरण की स्वीकृति प्रदान की गई है। प्रसंगाधीन पत्र में वर्णित शर्तों के तहत प्रस्ताव में सन्निहित रकबा-28.9869 हे० पर राशि की संशोधित गणना निम्नवत् है:-

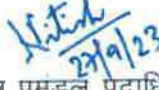
क्र० सं०	भारत सरकार द्वारा लगाए गई शर्त संख्या	वसूल की जाने वाली राशि
1	शर्त संख्या- A(1) के अनुसार विषयगत परियोजना के विरुद्ध रामगढ़ वन प्रमंडल अन्तर्गत मौजा-बन्दा में उपलब्ध कराए गए 15.945 हे० वन भूमि पर क्षतिपूर्क वनरोपण हेतु वनरोपण खर्च प्राक्कलन के अनुसार	61,25,700.00
2	शर्त संख्या- A(2) के तहत विषयगत परियोजना में प्रस्तावित 28.9869 हे० वन भूमि का शुद्ध वर्तमान मूल्य की राशि (वनों का घनत्व-0.5) @1228590/-	3,56,13,015.47
3	शर्त संख्या-A(3) के अनुसार विषयगत परियोजना का वन्य प्राणी प्रबंधन योजना का खर्च तथा भू-संरक्षण योजना का खर्च (Interim) Breakup details enclosed.	3,22,35,752.00
4	शर्त संख्या-A(4) के अनुसार विषयगत परियोजना के विरुद्ध रामगढ़ वन प्रमंडल अन्तर्गत मौजा-चोपादारु, पांचा, अन्तर्गत 3.75 हे० वन भूमि पर क्षतिपूर्क वनरोपण हेतु वनरोपण खर्च प्राक्कलन के अनुसार	1,90,22,600.00

नोट:- वन जीव प्रबंधन योजना एवं मू-संरक्षण योजना तैयार एवं अनुमोदन किए जाने के परवात वांछित Difference राशि प्रयोक्ता अभिकरण द्वारा देय होगी एवं इसके लिए वचन बढ़ता भी संलग्न किया जाय।

अतः अनुरोध है कि उपरोक्त विवरणी के अनुसार घालान generate करते हुए e-portal parivesh.nic.in के द्वारा कैम्पा लेखा खाता में जमा करते हुए इसकी सूचना इस कार्यालय में भी समर्पित करने की कृपा की जाय। समथ ही साथ प्रथम चरण की स्वीकृति में लगाए गए सभी शर्तों का पूर्ण अनुपालन करते हुए अनुपालन प्रतिवेदन आठ प्रतियों में इस कार्यालय में समर्पित किया जाय।

अनुलग्नक:- यथोक्त।

आपका विश्वासी,


22/9/23
वन प्रमंडल पदाधिकारी,
रामगढ़।


Project Director
NHAI, PIU
Dhanbad

AGENCY COPY

यूनियन बैंक Union Bank of India
आस्था Andhra

NEFT / RTGS CHALLAN for CAMPA Funds
Date : 30-09-2023

Agency Name.	NHAI, PIU DHANBAD
Application No.	61146250122
MoEF/SG File No.	FP/JH/ROAD/146250/2021
Location.	JHARKHAND
Address.	PIU DHANBAD, NHAI COMPLEX KANDRA, P.O BHITIA, P.S GOVINDPUR, DHANBAD JHARKHAND Dhanbad
Amount(in Rs)	444669861/-

Amount in Words : Forty-Four Crore Forty-Six Lakh Sixty-Nine Thousand Eight Hundred and Sixty-One Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	JHARKHAND CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507261146250122 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

• This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY

यूनियन बैंक Union Bank of India
आस्था Andhra

NEFT / RTGS CHALLAN for CAMPA Funds
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• This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank


Project Director
NHAI, PIU
Dhanbad

Project Director
NHAI, PIU
Dhanbad

Online payment history made by User Agency under CAMPA

Help

Sno.	Proposal Detail	Application No	Application No (New)	Date of IN-PRINCIPLE	Amount to be Paid/Amount Paid (in Rs.)	Payment Status	Payment Detail	Demand Letter
1	FP/JH/ROAD/146250/2021 Viewreport.aspx? bid=FP/JH/ROAD/146250/2021) Division of fresh Forest Land for development of Economic Corridors, Inter Corridors, Feeder Routes etc., under Bharatmala Pariyojana of Jharkhand More-Gola-Omanjhi section in the state of Jharkhand.	ROAD14625020211226114625012213 Jun 2023		13 Jun 2023	CA: 220337340/- Add CA: 0/- PCA: 0/- CAT: 0/- Safety Add PA: 0/- Zone: Wild Life NPV: 121443642/- Management Plan as well as Soil & Metadata : 102886579/- Other Charges1 0/- Other Charges2 0/- Other Charges3 0/- Total : 444669864/-		Fund Demand Verified by 29 Sep 2023 Nodal Officer On Bank Name Union Bank of India Mode of Payment NEFT/RTGS (Challan) Challan Generated 30 Sep 2023 On Transaction Date 05 Oct 2023	Demand Letter C:\writereaddata\Fundpdf\2709202317540308930_FP\HROAD1462502021_User_Fund_Demanded_9K153.p Generated Challan (UserAccount\Net_Challan.aspx?pd=NOAD1462502021122)

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(HTTPS://INDIA.GOV.IN/)



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MY GOV (HTTPS://WWW.MYGOV.IN/)

(HTTPS://INDIA.GOV.IN/)

india.gov.in

(HTTP://WWW.PMINDIA.GOV.IN/EN/)



(HTTP://WWW.PMINDIA.GOV.IN/EN/)

For any Technical support, Please Contact EFCCID, NIC, New Delhi, monitoring-ic(at)nic(dot)in

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05-10-2023 16:07:39	05 Oct 2023			National Highway- NEFT Cr-RBI2792317052700- RBIS0PFMS01-CS-NHAI-FARO, Ranchi- National Highway-	33		
05-10-2023 16:32:46	05 Oct 2023	00000000000000		RTGS Dr-CNRBR52023100564892301- UBIN0996335-JHARKHAND CAMPA- URGENT/FAST	5365	44,46,69,861.00	


 Project Director,
 NHAI, FIU
 Dhanbad

4

PROFORMA TO BE FURNISHED FOR REMITTANCE OF FUND IN AD-HOC CAMPA (CA LEVIS FORMAT)

Sl. No.	Particulars
1	Name of the Regional Office Bokaro
2	State/District/Forest Division to which the proposal related Ramgarh
3	Name of the User agency, nature of the proposal National Highways Authority of India.
4	Extent of Forest area involved (in Ha.) 28.9869 Ha
5	Whether original, or extension Original
6	If extension of lense, please clarify if proposal involves additional forest area, and if so, specify
7	Date of 1st Stage clearance 13.06.2023
8	Extent of CAMPA charges, head wise
a.	Compensatory Afforestation Rs. 25148300.00
b.	DFO, Ramgarh 0
c.	Penal CA 0
d.	Catchment Area Treatment Rs. 32235752.00
e.	Wildlife Management Plan (for safety purpose) Additional Charges for diversion area falling under notified Protected area (i.e. block plantation 5 times of tree to be felled)
f.	Net present Value Rs. 35613016.00
g.	DFO, Ramgarh
h.	Any other Charges/Levies (Pl Specify) Lease transfer fee
9	Details of bank Draft (Bank Draft No. date and amount), head wise against items indicated in the paragraph 9 above. Amount deposited on dated 05.10.2023 by NHAI through RTGS to Jharkhand CAMPA bank Union Bank of India A/c no. 1507261146250122 as per generated challan from parivesh portal (Challan application no. 61146250122 dt. 30.09.2023), RTGS ref. no. CNR8RS2023100564892301. Copy of Challan attached herewith for your further reference please.
10	Whether deposited by RTGS, if so, the particulars and date of remittance
11	Bank (corporation Bank, Lodhi Complex/Union bank of India, Sunder Nagar) in which Deposited, with Deposit, with date of Deposition As per challan Bank name & Address is Union Bank Of India FCS Centre, 21/1, III Floor, Jellita Towers, Mission Road, Bengaluru-560027.
12	Any other remarks.

Project Director
NHAI, PIU
Dhanbad

ANNEXTURE-3

**UNDERTAKING IN REFERENCE TO SECTION-A, PARA 03 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

Demand raised by DFO Bokaro, Ramgarh & Ranchi for Wildlife Management Plan and Soil & Moisture Conservation Plan has deposited to CAMPA A/c of forest department CAMPA A/c. However, plan preparation and approval to be done by forest department. In this regards, it is to undertake that the deficit amount if any, shall be deposited accordingly, to the CAMPA A/c of forest department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXURE-4

**UNDERTAKING IN REFERENCE TO SECTION-A, PARA 06 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes to formulate & implement Soil Moisture Conservation work around the proposed road as per requirement during the construction stage. So, that small streams are disturbed due to the construction of the highway.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh



**OFFICE OF THE DIVISIONAL FOREST OFFICER,
RAMGARH FOREST DIVISION RAMGARH**

(Near BRL Gate, Ranchi Road, PO-Marar, District-Ramgarh, Pin-829117)

Email id – dfo-ramgarh@gov.in Mob-8987790306 Land Line No-06553-296061

Letter No- 2527

Date:- 21/11/23

To,

Project Director,
NHAI, Dhanbad

Subject: Approval of Muck Disposal Plan- 44275 to 53600 of Bharatmala Pariyojna- reg.

Ref: 1. Your Letter No- NH-320/367 dated 26.10.2023
2. Your Letter No. NH-320/815 dated 12.10.2023

Sir,

Vide letters referenced above you have initially submitted a muck disposal plan and additional information and an undertaking by concessionaire has also been submitted regarding deposition of royalty.

I also surveyed chainage 53000 to 44000 of said project, so that proper compliance of condition B-7 of in-principal approval is ensured. Following are salient notes in this regard:

1. The minor bridge proposed at 45000 need to be extended so as to give it double span of 35 m with single pillar in between and minimum vertical clearance of 8 m between ground and lower point of girdles of bridge.
2. Bridge on old road also needs to be modified accordingly so as to make new bridge useful for Wild Life movement.
3. Underpass at 45480 of minimum span of 35 m and minimum vertical clearance of 8 m between ground and lower point of girdles of overlying road.
4. Barrierless level crossing at 52250, both on new road as well as corresponding level crossing on old road.
5. The new road is passing below Rajrappa old road and again coming back on surface close to old highway. This demands construction of Elephant overpass between the hills so, as to provide unhindered movement over the maze of old and new roads.
6. As there is existing old highway which will be used as service road after construction of new highway. Thus, appropriate structure over old highway will also be required.
7. To increase utility of passes and save habitations from elephant conflict proper funnelling structures needs to be constructed to route elephants to passes and save habitations.

Office Letter In English


Project Director,
NHAI, PIU
Dhanbad

You are advised to follow above and include it in modified DPR. Meanwhile, your muck disposal plan which indicates complete re-use of excavated material, is approved with following conditions: -

1. Construction on above chainages should only commence after finalisation of design of underpasses and overpasses in consultation with forest department.
2. Royalty should be paid as per prevalent rules of the State.
3. After project completion, no rock/muck/earth material should be left unattended, because as per your plan there is no excess muck and all generated muck is re-usable.
4. During Construction please, no rock/muck should be disposed/put anywhere except ROW of the project.
5. No temporary disposal of muck should happen in forest area than what has been applied for.

It is also hereby requested to provide extra copy so that one copy can be approved and returned back to you. Any non-compliance would be treated as per law.

Yours Sincerely,

Hitesh
21/11/23
Divisional Forest Officer,
Ramgarh

Memo No:- 2527

Date:- 21/11/23

Copy: 1. Divisional Forest Officer, Bokaro for kind information.
2. District Mining Officer, Ramgarh for information.

Hitesh
21/11/23
Divisional Forest Officer,
Ramgarh

PC
Project Director,
NHAI, PIU
Dhanbad

MUCK DISPOSAL PLAN Ramgarh District

Project name: - "Four laning with paved shoulder of section from Km 44.275 (Chargi on NH-320) to Km 53.600 (Gola on NH-320) in the State of Jharkhand on Hybrid Annuity Mode"

Client Name: - National Highway authority of India

Concessionaire: - M/S Bokaro Highway Private Limited

Independent Engineer: - M/S TPF Engineering Pvt. Ltd.

In Association with ROTRANS INFRAPROJECTS PRIVATE LIMITED

Approved as per letter No.
2527 dated 21/11/23 of
this office. *Hitish*

Hitish
Divisional Forest Officer
Ramgarh Forest Division

Name: - **Rajendran Nair**
Designation: - Team Leader
IPFEPL In Association with
Rotrans Infra Projects Pvt. Ltd.
Baramore, Bokaro Pkg.-1

[Signature]
Name: - **Rajesh Kumar**
Designation: - R. E.
IPFEPL In Association with
Rotrans Infra Projects Pvt. Ltd.
Baramore, Bokaro Pkg.-1

Project Director
NHAI PIU
Dumkha

①

[Signature]
Project Director
NHAI PIU

Name:- Rajendran Nair
Designation:- Team Leader
 IPFEPL in Association with
 Rotrans Infra Projects Pvt. Ltd.
 Jalnampore, Bokaro Pkg.-1

Name:- Rujeev Kumar
Designation:- R. E.
 IPFEPL in Association with
 Rotrans Infra Projects Pvt. Ltd.
 Jalnampore, Bokaro Pkg.-1



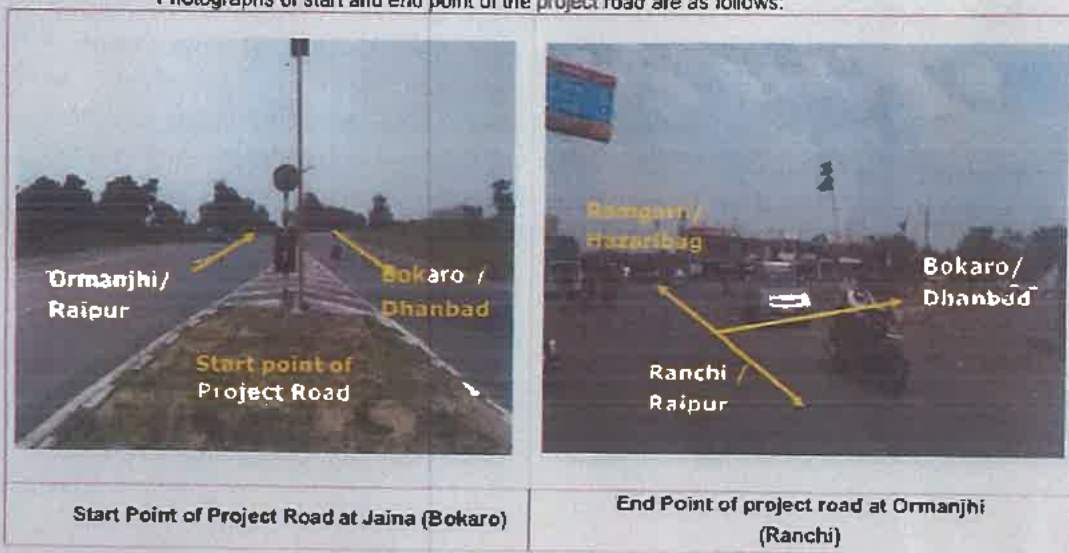
MUCK DISPOSAL PLAN

GENERAL

The National Highways Authority of India (NHAI) is responsible for execution and maintenance of National Highway on behalf of the Ministry of Road Transport & Highways, Government of India (MoRTH).

The Ministry of Road Transport & Highways, Government of India has entrusted the National Highways Authority of India (NHAI) for the work of Development of Economic Corridors. Inter corridors and feeder route to improve the efficiency of freight movement in India of NH 320 (old NH 23) from Km 44.275 (Chargi more on NH-320) to Km 53.600 (Gola on NH-320) in the State of Jharkhand on hybrid Annuity Mode.

Photographs of start and end point of the project road are as follows:



Importance of the Project Road



②

Project Director
 NHAI, PIU
 Dhanbad

A direct connection between Dhanbad to Raipur avoiding Ramgarh is considered in this part of Economic Corridor of Bharatmala Pariyojana. To connect Dhanbad and Raipur the alignment is proposed from Dhanbad to Bokaro through NH-18 (Old NH-32) thence to Balidih, Siwandih, Jainamora, Petarwar, Gola through NH-320 (Old NH-23) thence to Koliya, Bariatu, Kulhi, Charo, IT More through MDR 101 thence to Sandi, Dardag, Ormanjhi through MDR 105 & thence intersecting with NH-20 (Old NH 33) at Ormanjhi block chowk to reach Ranchi. Thereafter it follows the available route to Raipur through Gumla, Pathalgaon, etc.

The National Highway Authority of India proposed to develop existing NHA Road originating at Gola connecting with NH-320 Km 44.275 and ending at Gola, Km 53.600 Package-1 a fully modern system for safe and efficient movement of traffic in the state of Jharkhand. The construction package for the project includes developing the existing two lane carriageway to four lane carriageway including service road in majority of stretches with green field corridor.

The project road from Jainamora to Gola to Ormanjhi is located on East-West direction. The horizontal alignment of existing road stretch is passing through several congested settlements/habitational areas with presence of sharp and reverse curves, where the geometric improvement is required. Horizontal alignment of the proposed road has been designed based on the latest NHA Office Memorandum no. NHA/Bharatmala/EC/DPR/2016 dated 14.05.2018 and 03.01.2018 prescribed for Economic Corridor. The design has been carried out to provide seamless freight movement between origin and destinations. Geometric improvement has been done at sharp / reverse curve locations as per recommended design speed. The details of Geometric improvement done along the proposed alignment are presented below in Table No. 1.

Table No.-1
(Horizontal Curve Details of Proposed Alignment)

Sl. No.	Design Chainage (km)	Radius (m)	Design Speed (kmph)
1	46418.54	1000	100
2	47912.06	1000	100
3	49112.36	1800	100

The Project Stretch of NH-320 from Km 44.275 to Km 53.600 has flexible pavement. The existing 2-lane carriageway will be constructed newly with requisite connection of existing road as service road. The new four-lane will be constructed completely in modified Alignment includes green field area. There are three Bypass Maganpur. The service road LVUP, SVUP, VUP, Major Junction, Minor junctions are provided through project Alignment in requisite areas to facilitate the local traffic.



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Jainamora, Bokaro Pkg.-1

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Dhanbad

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Dhanbad

NHAI is committed to offset this loss of trees by replacing the felled trees by planting at least Five times the number as per recommendation of High Power committee. Not only had this, following the approach of "Corridor Development & Management" rather than "Highway Development"; NHAI planned to enhance the aesthetics of the highway corridor from all possible angles. Highways are not being looked upon merely as a means of transportation, but an integral part and parcel of the physical environment and Socio-economic milieu.

While Bharatmala Pariyojna Project from Chargi (NH-320) to Gola (NH-320) formulated project specific strategies for plantation of trees along the highway guidelines for median and avenue plantation for the whole corporate were prepared in order to ensure uniformity of operations.

The followings points will be taken care while handling Muck.

- ❖ Keep the objective in view that soil from excavation should be put to best possible use in fill area unless the material is declared unfit. Where different grade of materials are met with proper arrangement of operations is planned in such a way that the best material is reserved for use in the Embankment up to desired height as well as top 0.5m subgrade.
- ❖ Excavated materials usable in pavement constructions shall be stacked at convenient locations and proper records are kept.
- ❖ Unsuitable materials (Existing Road Dismantle Material) will be utilized for making, Diversion, approach road /haul road, worker camp / Construction camp where it cannot get easily washed away by rain.
- ❖ As per assumption, minority of soil to be obtain from excavation, is suitable material and shall be used as per project requirement meeting with technical specification. Only topsoil which is generally fertile soil, shall be used in median/divider of carriageway, Avenue Plantation slope protection of road for vegetation purpose and this will helps us to protect erosion; so that material shall be stored in such a manner to full-fill project requirement all along.
- ❖ It will be ensured that necessary measures are taken to prevent soil erosion, blockage of streams and water pollutions.
- ❖ A close watch on the cut slopes and excavated areas will be done to see whether these require any protection/drainage measures for suitability/performance.
- ❖ We will make it sure about the classification of excavated materials. Where additional pavement is involved, ensure proper measurements, record and evidence, etc.
- ❖ Check the finished cut surface for levels and slopes regularly.
- ❖ Have the top soil (removed earlier and conserved) applied on to cut slopes, median, berms and other disturbed areas. Have these areas sodded or seeded to protect against erosion.



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Dhanbad

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Project Director
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Dhanbad

ENGINEERING MEASURES

- ❖ Retaining Wall/RE-Wall – usable material shall be spread and rolled behind retaining wall/RE-wall is proposed to be built up at various location of project Alignment. In addition, compaction would also be done after dumping the material on every cycle and simultaneously improving the drainage of the disposal site. All the approach roads to various project structures will be constructed by employing the methodology recommended by National Highway with minimal environmental damage. The methodology consists in developing the formation width is half cutting and half filling, so that the materials obtained from cutting are utilized in filling. The excavation on hill side will be done to get a stable slope for the materials encountered. At places suitable measures like breast-wall/Toe-wall shall be done in natural slope to retain filled material, particularly where there is problem of retaining the hill slope.
- ❖ To minimize the environmental damage, construction material like stones, dusts, etc., required for the construction of road will be obtained mostly from the excavated material.



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Jainamori, Bokaro Pkg.-1

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Project Director,
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Dhanbad

- ❖ In the streams, cross-drainage structure will be provided to prevent the erosion of nala bed.
- ❖ In addition, stone/concrete work on the downstream area will also be provided at vulnerable places to minimize erosion

MUCK DISPOSAL QUANTITY-

The total excavation quantity likely to be generated from the road way in forest area will be around 65294.00 cum, out of which around 39176.4 cum material expecting suitable material for embankment, will be used in filling of road way in project alignment. Approx. 26117.60 cum excavated material may be rock which is also to be used as aggregate after crushing the same if it is found suitable and meet technical specifications by using mobile crusher.

Table: Calculation of Muck to be disposed.

Sl. No.	Descriptions	Quantity (cum)
1	Total Excavation	65294.00
2	Reusable Quantity (for use as Roadways filling & pavement Construction)	65294.00
3	Total muck to be disposed	0

Table: Details of Muck Disposal Areas (Non Forest area)

Sl. No.	Chainage		Quantity in cum
	From	To	
	MAIN CARRIAGEWAY Filling		
1.	46+700	48+100	39176.40
	Rock quantity (crushed material usable in pavement crust)		26117.60
	SUB-TOTAL		65294.00 cum



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Jalnamore, Bokaro Pkg.-1

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Project Director
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Engineering Measures:

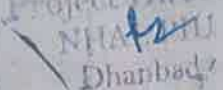
The total quantity calculation details

Sl. No.	Chainage		Quantity in cum
	From	To	
1	44.275	53+600	65294.00




Name:-Rajeev Kumar
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Quantity Calculation details for Project Length of Cutting Portion

Sl. No.	Chainage		Length in mtr	Descriptions	Quantity (cum)
	From	To			
1	46+700	47+000	300	Cutting Portion	32843
2	47+000	48+000	1000	Cutting Portion	32431
3	48+000	48+100	100	Cutting Portion	20
				Total Excavation	65294
				Reusable Quantity (for use as Roadways filling &	65294
				pavement Construction)	
				Total muck to be disposed	0

Table: Details of Muck Disposal Areas (Non Forest area)

Sl. No.	Chainage		Length in mtr	Descriptions	Quantity in cum
	From	To			
1	46+700	48+100	1400	MAIN CARRIAGEWAY Filling	39176.4
				Rock quantity (crushed material usable in pavement crust)	26117.6
				SUB-TOTAL	65294.00 cum

N G. PROJECTS LIMITED
Authorized Signatory

Name:- **Rajeev Kumar**
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Name:- **Rajendran Nair**
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 Jainamora, Bokaro Pkg.-1

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**Cutting Quantity Calculation details of forest area involve in Project
alignment for Ramgarh District**

<u>Chainage</u>	<u>Length</u>	<u>width</u>	<u>Depth</u>	<u>Cut Volume (Cu.m.)</u>	<u>Remarks</u>
44+230.000	10	58	8.94	5185.46	
44+240.000	10	58	8.76	5080	
44+250.000	10	58	8.28	4800.52	
44+260.000	10	58	7.70	4467.16	
44+270.000	10	58	7.04	4082.54	
44+280.000	10	58	6.68	3873.7	
44+290.000	10	58	6.84	3965.25	
44+300.000	10	58	5.97	3464.13	
44+310.000	10	58	4.82	2792.94	
44+320.000	10	58	4.11	2385.05	
44+330.000	10	58	3.37	1953.18	
44+340.000	10	58	3.23	1872.55	
44+350.000	10	58	3.28	1902.55	
44+360.000	10	58	2.97	1724.21	
44+370.000	10	58	2.36	1366.05	
44+380.000	10	52	2.12	1103.6	
44+390.000	10	52	2.34	1216.69	
44+400.000	10	52	2.10	1091.62	
44+410.000	10	52	1.26	652.6	
44+420.000	10	52	1.50	778.47	
44+430.000	10	52	2.03	1054.94	
44+440.000	10	52	1.99	1034.11	
44+450.000	10	52	2.36	1225.66	
44+460.000	10	52	1.95	1013.66	
44+470.000	10	52	0.87	451.35	
44+480.000	10	52	0.64	333.91	
44+490.000	10	49	1.38	677.32	
44+500.000	10	48	1.49	713.27	
44+510.000	10	46	0.78	358.68	
44+520.000	10	46	0.81	370.65	
44+530.000	10	46	0.62	287.42	
44+540.000	10	46	0.12	56.61	
44+550.000	10	46	0.04	18.34	
44+560.000	10	46	0.05	23.34	
44+570.000	10	46	0.02	10.03	
44+580.000	10	46	0.02	10.71	
44+590.000	10	46	1.62	743.71	
44+600.000	10	46	2.27	1043.98	
44+610.000	10	46	3.22	1479.91	
44+620.000	10	46	1.37	628.13	
Total Cutting Qty in Cum				65294	

N.G. PROJECTS LIMITED

Authorised Signatory

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Jainamora, Bokaro Pkg.-1

Name:- **Rajendran Nair**
Designation:- **Team Leader**
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Jainamora, Bokaro Pkg.-1

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Dhanbad

Project Director
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**Quantity utilization details of non forest area in the Project
Alignment**

Chainage	Length	width	Depth	Fill Volume (Cu.m.)	Remarks
46+700.000					
46+710.000	10	55	0.53	291.44	
46+720.000	10	55	0.69	376.83	
46+730.000	10	55	1.03	567.76	
46+740.000	10	55	1.66	912.59	
46+750.000	10	55	2.30	1265.24	
46+760.000	10	55	2.84	1564.61	
46+770.000	10	55	3.27	1798.75	
46+780.000	10	55	3.51	1931.74	
46+790.000	10	55	3.52	1938.73	
46+800.000	10	55	3.18	1750.12	
46+810.000	10	55	2.75	1514.66	
46+820.000	10	55	2.52	1387.16	
46+830.000	10	55	2.15	1181.59	
46+840.000	10	55	1.81	997.74	
46+850.000	10	55	1.69	927.68	
46+860.000	10	49	1.85	907.15	
46+870.000	10	49	2.11	1036.12	
46+880.000	10	49	2.35	1153.01	
46+890.000	10	49	2.12	1041.02	
46+900.000	10	49	1.70	832.44	
46+910.000	10	49	1.48	722.76	
46+920.000	10	49	1.20	588.73	
46+930.000	10	49	0.81	396.41	
46+940.000	10	52	0.70	362.61	
46+950.000	10	52	0.96	497.29	
46+960.000	10	52	1.31	679.43	
46+970.000	10	52	1.78	926.87	
46+980.000	10	52	2.83	1473.14	
46+990.000	10	52	3.90	2027.17	
47+000.000	10	52	2.99	1553.11	
47+010.000	10	58	0.90	521.52	
47+020.000	10	58	0.12	67.73	
47+030.000	10	50	0.04	18.21	
47+040.000	10	50	0.18	90.67	
47+050.000	10	50	0.36	179.78	
47+060.000	10	50	0.41	203.92	
47+070.000	10	50	0.45	224.91	
47+080.000	10	50	0.37	185.3	
47+090.000	10	50	0.14	70.52	
47+100.000	10	50	0.01	3.18	
47+110.000	10	50	0.00	0.72	
47+120.000	10	50	0.02	7.64	
47+130.000	10	50	0.02	10.03	

N.G. PROJECTS LIMITED

Authorized Signatory

Name:-Rajeev Kumar

Designation:- R. E

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Jaipur, Pokaro Pkg.-1

Project Director

NHAI, PIU

Dhanbad

Name:-Rajendran Hale

Designation:- Team Leader

IPFEPL in Association with

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Jaipur, Pokaro Pkg.-1

Project Director

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47+140.000	10	50	0.02	10.94	
47+150.000	10	48	0.02	11.2	
47+160.000	10	48	0.02	7.99	
47+170.000	10	48	0.02	7.21	
47+180.000	10	48	0.01	3.16	
47+190.000	10	48	0.02	7.86	
47+200.000	10	48	0.07	35.57	
47+210.000	10	48	0.07	31.24	
47+220.000	10	48	0.01	2.76	
47+230.000	10	48	0.00	1.93	
47+240.000	10	48	0.01	3.09	
47+250.000	10	48	0.04	18.18	
47+260.000	10	48	0.04	19.73	
47+270.000	10	48	0.02	11.47	
47+280.000	10	48	0.13	63.16	
47+290.000	10	48	0.29	140.54	
47+300.000	10	48	0.57	271.26	
47+310.000	10	48	0.88	423.98	
47+320.000	10	48	1.16	556.22	
47+330.000	10	48	1.48	712.79	
47+340.000	10	48	1.59	763.43	
47+350.000	10	48	1.47	704.62	
47+360.000	10	48	1.46	699.86	
47+370.000	10	48	1.44	690.22	
47+380.000	10	48	1.35	648.17	
47+390.000	10	48	1.63	783.64	
47+400.000	10	48	1.82	872.99	
47+410.000	10	48	1.81	867.71	
47+420.000	10	48	1.62	777.77	
47+430.000	10	48	1.09	525.34	
47+440.000	10	48	0.89	427.99	
47+450.000	10	48	0.95	456.22	
47+460.000	10	48	1.02	487.59	
47+470.000	10	48	1.08	519.98	
47+480.000	10	48	1.05	502.05	
47+490.000	10	48	0.95	458.08	
47+500.000	10	48	0.84	405.09	
47+510.000	10	48	0.57	271.28	
47+520.000	10	48	0.32	152.37	
47+530.000	10	48	0.29	137.31	
47+540.000	10	48	0.36	173.44	
47+550.000	10	48	0.21	101.44	
47+560.000	10	48	0.00	0	
47+570.000	10	48	0.01	2.55	
47+580.000	10	48	0.01	2.55	
47+590.000	10	48	0.00	0	
47+600.000	10	48	0.00	0	
47+610.000	10	48	0.00	0.06	
47+620.000	10	48	0.01	3.45	

N.G. PROJECTS LIMITED

Authorised Signature

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47+630.000	10	48	0.01	3.42	
47+640.000	10	48	0.00	0.27	
47+650.000	10	48	0.01	3.48	
47+660.000	10	48	0.01	4.08	
47+670.000	10	48	0.00	0.83	
47+680.000	10	48	0.00	0.31	
47+690.000	10	48	0.02	9.98	
47+700.000	10	48	0.03	14.19	
47+710.000	10	48	0.73	351.76	
47+720.000	10	48	1.49	712.92	
47+730.000	10	48	1.57	751.61	
47+740.000	10	52	1.52	789.38	
47+750.000	10	52	1.59	827.3	
47+760.000	10	52	1.74	902.32	
47+770.000	10	52	1.87	974.42	
47+780.000	10	52	1.97	1023.08	
47+790.000	10	52	2.34	1218.74	
47+800.000	10	52	2.54	1321.07	
47+810.000	10	52	2.24	1165.46	
47+820.000	10	52	1.97	1025.94	
47+830.000	10	52	1.98	1031.25	
47+840.000	10	52	2.03	1055.47	
47+850.000	10	52	1.84	955.3	
47+860.000	10	55	1.51	832.83	
47+870.000	10	55	1.35	741.61	
47+880.000	10	55	1.11	612.14	
47+890.000	10	55	0.76	418.99	
47+900.000	10	55	0.41	226.88	
47+910.000	10	55	0.15	83.52	
47+920.000	10	40	0.03	13.41	
47+930.000	10	40	0.000	0	
47+940.000	10	40	0.000	0.02	
47+950.000	10	40	0.000	0.02	
47+960.000	10	40	0.000	0	
47+970.000	10	40	0.000	0	
47+980.000	10	40	0.000	0	
47+990.000	10	40	0.000	0.07	
48+000.000	10	40	0.000	0.07	
48+010.000	10	40	0.000	0	
48+020.000	10	40	0.001	60.97	
48+030.000	10	40	0.001	59	
48+040.000	10	40	0.000	19	
48+050.000	10	40	0.000	100	
48+060.000	10	40	0.004	1.47	
48+070.000	10	40	0.015	5.83	
48+080.000	10	40	0.017	6.82	
48+090.000	10	40	0.009	3.46	
48+100.000	10	40	0.004	1.57	
Total Filling Qty in Cum				65294	

N.G. PROJECTS LIMITEE

Authorised Signatory

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Name:- Rajendran Nair
Designation:- Sani Leader
IPFEPL in Association with
Rotrans Infra Projects Pvt. Ltd.
Jainamare, Bokaro Pkg.-I

Project Director
NHAI, PIU
Dhanbad

BOKARO HIGHWAY PRIVATE LIMITED

CIN : U45309GJ2022PTC131980

BHPL Reference: - BHPL/NHAI/GOLA/NH-320/426

Date: 21-10-2023

To,
The Divisional forest Officer,
Forest Department, Ramgarh,
Jharkhand-829117
Email: dfo-ramgarh@gov.in

Subject : Four Laning with paved shoulder of section Km 21.110 (Bokaro (Jaina More) on NH -320 to Km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity mode – Regarding to undertake the royalty payment usable material obtain from Forest Land

Respected Sir,
With the reference of above subject cited matter, concessionaire assure you that we will pay the liable royalty for the usable material obtained from forest land in above said project as per government rules & regulations.

Thanking you and assuring our best service always.

For, Bokaro Highway Private Limited


Gopalsinh Narayansinh Rathod
Director

Copy to : The Project Director, NHAI, Dhanbad for information only

Name:- K. E.
Designation:- K. E.
IPFEPL in Association with
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Jainamore, Bokaro Rkg.-1

Project Director
NHAI PIU
Dhanbad

Certified
Name:- Ravindran Nair
Designation:- Team Leader
IPFEPL in Association with
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Page 1 of 1

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Contact : 02772-222404 / 405 Email : ngplbokaro@gmail.com


Project Director
NHAI, PIU
Dhanbad



Filling Section



Filling Section

N.G. PROJECTS LIMITED

[Signature]
 Authorised Signatory

[Signature]
Project Director
 NHAI, PIU
 Dhanbad

Project Director
 NHAI, PIU
 Dhanbad

[Signature]
 Name: Rajendran Nair
 Designation: Team Leader
 IPSC Association



Cutting Section



Cutting Section.

N.G. PROJECTS LIMITED

Authorized Signatory

Project Director
 NHAI, PIU
 Dhanbad

Project Director
 NHAI, PIU
 Dhanbad

Name: Rajendran Nail
 Designation: Team Leader
 IPFEEPL in association with
 Rotrans Infrastructure Pvt. Ltd.
 Jainamore Bokaro Pkg.-2

Four Laning with paved shoulder of section from km 21.110 (Bokaro (Jaina More) on NH-320) to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode

Project Director,
NHAI, PTU
Dhanbad

Project Director
NHAI, PTU
Dhanbad

N.G. PROJECTS LIMITED
Authorized
- J.D.

46+840	391.558	47+840	392.824
46+860	391.637	47+860	392.885
46+880	391.709	47+880	392.947
47+000	391.874	47+000	393.013
47+220	392.281	47+220	393.382
47+240	391.758	47+240	393.470
47+260	391.320	47+260	393.543
47+280	392.519	47+280	393.606
47+300	393.849	47+300	393.653
47+320	394.521	47+320	393.683
47+340	395.382	47+340	393.703
47+360	396.712	47+360	393.714
47+380	398.481	47+380	393.718
47+400	399.218	47+400	393.715
47+420	399.521	47+420	393.705
47+440	399.031	47+440	393.685
47+460	398.213	47+460	393.655
47+480	397.786	47+480	393.614
47+500	397.110	47+500	393.562
47+520	396.140	47+520	393.500
47+540	395.025	47+540	393.428
47+560	393.755	47+560	393.345
47+580	392.355	47+580	393.252
47+600	390.852	47+600	393.148
47+620	389.277	47+620	393.034
47+640	387.640	47+640	392.910
47+660	385.925	47+660	392.776
47+680	384.152	47+680	392.632
47+700	382.321	47+700	392.478
47+720	380.432	47+720	392.314
47+740	378.485	47+740	392.140
47+760	376.489	47+760	391.956
47+780	374.444	47+780	391.762
47+800	372.350	47+800	391.558
47+820	370.207	47+820	391.344
47+840	368.015	47+840	391.120
47+860	365.774	47+860	390.886
47+880	363.484	47+880	390.642
47+900	361.145	47+900	390.388
47+920	358.757	47+920	390.124
47+940	356.321	47+940	389.850
47+960	353.837	47+960	389.566
47+980	351.305	47+980	389.272
48+000	348.725	48+000	388.968
48+020	346.097	48+020	388.654
48+040	343.421	48+040	388.330
48+060	340.697	48+060	387.996
48+080	337.925	48+080	387.652
48+100	335.105	48+100	387.298
48+120	332.237	48+120	386.934
48+140	329.321	48+140	386.560
48+160	326.357	48+160	386.176
48+180	323.345	48+180	385.782
48+200	320.285	48+200	385.378
48+220	317.177	48+220	384.964
48+240	314.021	48+240	384.540
48+260	310.817	48+260	384.106
48+280	307.565	48+280	383.662
48+300	304.265	48+300	383.208
48+320	300.917	48+320	382.744
48+340	297.521	48+340	382.270
48+360	294.077	48+360	381.786
48+380	290.585	48+380	381.292
48+400	287.045	48+400	380.788
48+420	283.457	48+420	380.274
48+440	279.821	48+440	379.750
48+460	276.137	48+460	379.216
48+480	272.405	48+480	378.672
48+500	268.625	48+500	378.118
48+520	264.797	48+520	377.554
48+540	260.921	48+540	376.980
48+560	256.997	48+560	376.396
48+580	252.925	48+580	375.802
48+600	248.805	48+600	375.198
48+620	244.637	48+620	374.584
48+640	240.421	48+640	373.960
48+660	236.157	48+660	373.326
48+680	231.845	48+680	372.682
48+700	227.485	48+700	372.028
48+720	223.077	48+720	371.364
48+740	218.621	48+740	370.690
48+760	214.117	48+760	369.996
48+780	209.565	48+780	369.292
48+800	204.965	48+800	368.578
48+820	200.317	48+820	367.854
48+840	195.621	48+840	367.120
48+860	190.877	48+860	366.376
48+880	186.085	48+880	365.622
48+900	181.245	48+900	364.858
48+920	176.357	48+920	364.084
48+940	171.421	48+940	363.300
48+960	166.437	48+960	362.506
48+980	161.405	48+980	361.702
49+000	156.325	49+000	360.888

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Design & Detailing
IPFEL in Association with
Rotrans Infra Projects Pvt. Ltd.
Bokaro, Jharkhand

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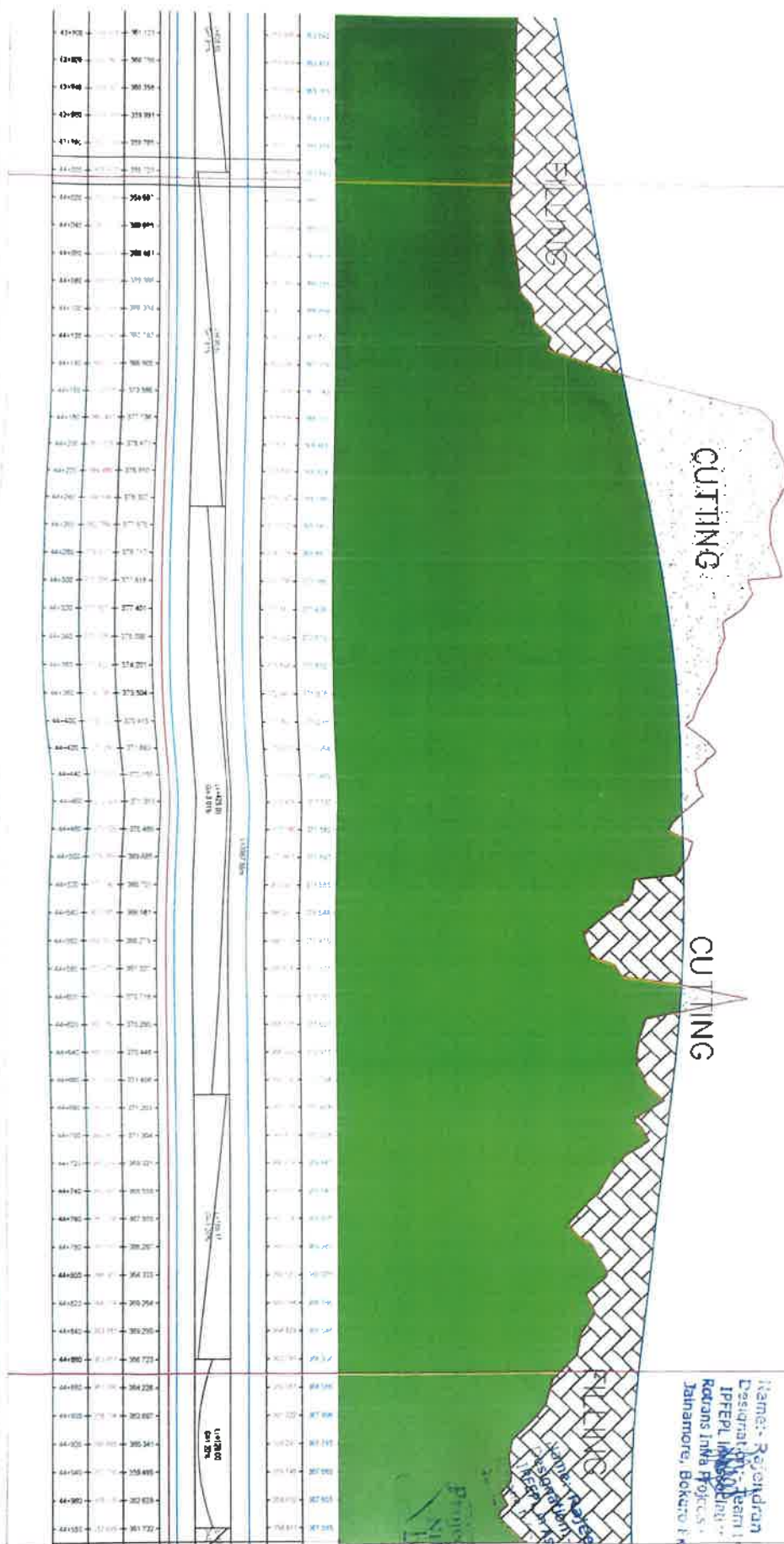
Four Laning with paved shoulder of section from km 21.110 (Bokaro (Jaina More)
on NH-320) to km 53.600 (Gola on NH-320) in the
state of Jharkhand on Hybrid Annuity Mode

Project Director
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Name: Rajendran Raj
Designation: Team Leader
IPFEP, Jharkhand
Roads and Highways
Jainam, Bokaro City

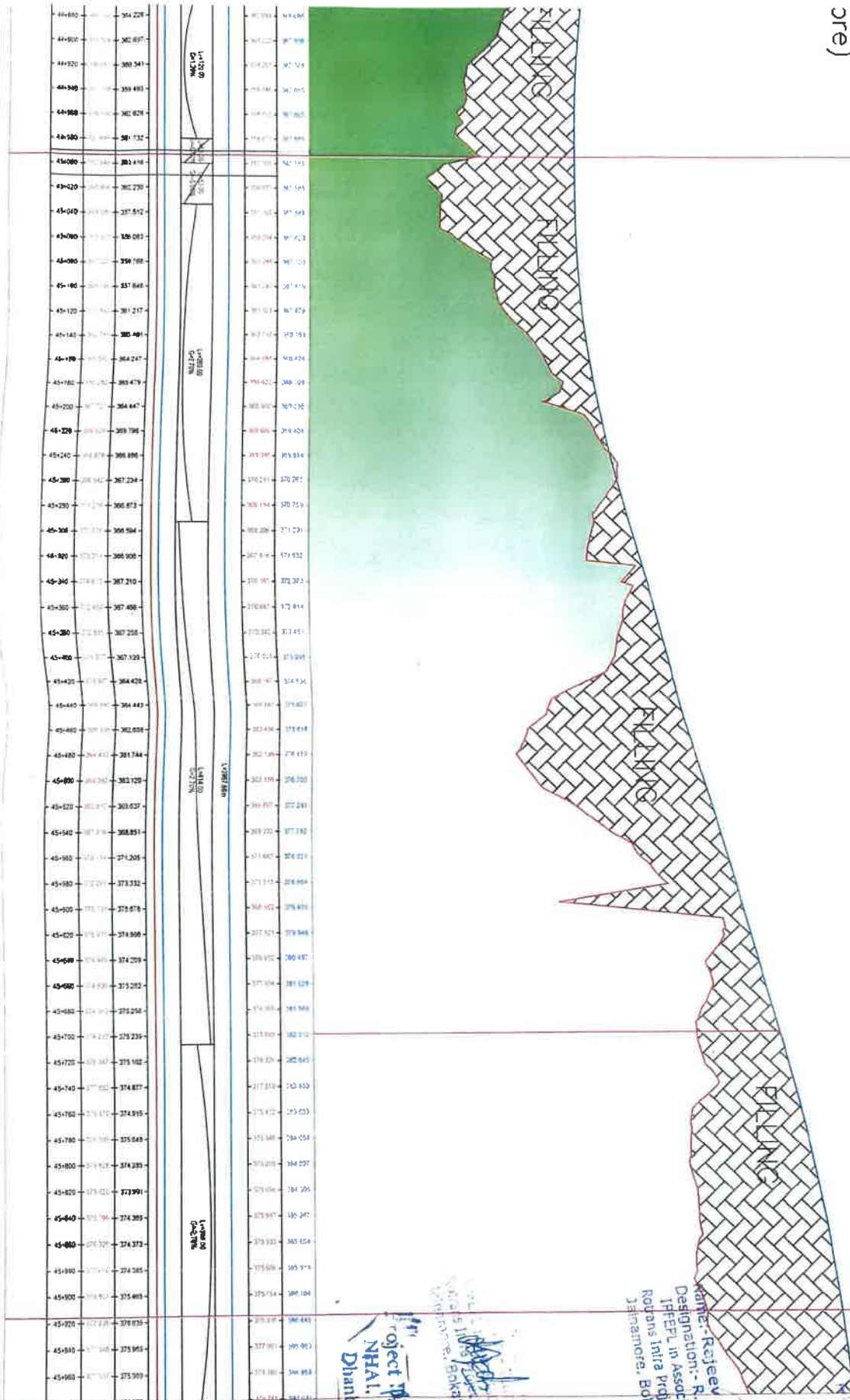
Name: Rajesh Kumar
Designation: Team Leader
IPFEP, Jharkhand
Roads and Highways
Jainam, Bokaro City

Project Director
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Four Laning with paved shoulder of section from km 21.110 (Bokaro (Jana More))
on NH-320 to km 53.600 (Gola on NH-320) in the
state of Jharkhand on Hybrid Annuity Mode

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Project Director
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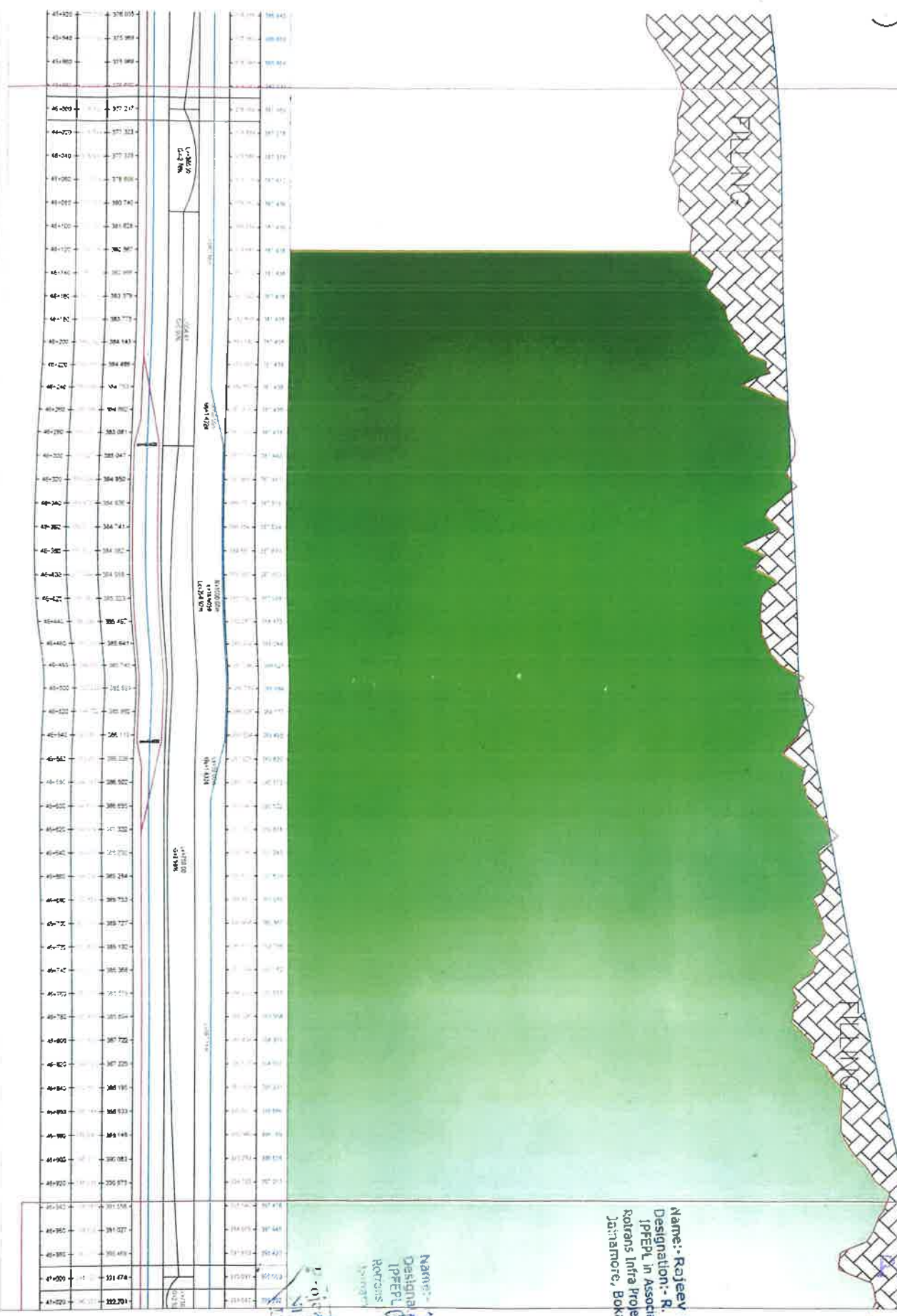
Name: Rajeev Kumar
Designation: - R. E.
IFFEPL in Association with
Rajans Infra Projects Pvt. Ltd.
Jamtara, Bokaro Pkg.-1

Project Director
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Four Laning with paved shoulder of section from km 21.110 (Bokaro (Jaina More) on NH-320) to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode

Project Director
NHAI, PIU
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Name:- Rajeey Kumar
Designation:- R. E.
JPFEP, in Association with
Rotans Infra Projects Pvt. Ltd.
Jaratmore, Bokaro, Pkg.-1



Name:- Rajeey Kumar
Designation:- R. E.
JPFEP, in Association with
Rotans Infra Projects Pvt. Ltd.
Jaratmore, Bokaro, Pkg.-1



Received
NHA, PIU-Ramgarh
Sl. No. 3640
Date 27.10.2023
Signature.....
Content not verified

**OFFICE OF THE DIVISIONAL FOREST OFFICER,
RAMGARH FOREST DIVISION RAMGARH**

(Near BRL Gate, Ranchi Road, PO-Marar, District-Ramgarh, Pin-829117)
Email id – dfo-ramgarh@gov.in Mobile No-8987790306

To, Letter No- 2248 Date:- 16/10/23

Project Director,
PIU, Ramgarh
NHA

Sub: Approval of muck disposal plan for chainage-53600 to 81446 of Bharatmala Pariyojana.

Ref:- 1. Your Letter No-NHA/PIU-Ramgarh/NH-320B/Forest/811 dated 19-08-2023
2. Letter No- PRA-GOHPL/HO/Gola-Ormanjhi/NHA-HB/2023-24/268 dated 29.08.2023

Sir,

Vide letter referenced-1 above, you have submitted Muck Disposal Plan in compliance of Stage-I condition A-7 and vide letter referenced-2 above, your contractor has submitted that they will pay the royalty as per prevalent state rules.

Above submitted Muck Disposal Plan is hence approved with following conditions:-

1. Royalty should be paid as per prevalent rules of the State.
2. After project completion, no rock/muck/earth material should be left unattended, because as per your plan there is no excess muck and all generated muck is re-usable.
3. During Construction please, no rock/muck should be disposed/put anywhere except ROW of the project.
4. No temporary disposal of muck should happen in forest area than what has been applied for.

It is also hereby requested to provide extra copy so that one copy can be approved and returned back to you.

Yours Sincerely

Nitish
Divisional Forest Officer,
Ramgarh

Memo No:- 2248 Dated 16/10/23

Copy forwarded to District Mining Officer, Ramgarh for information and needful action.

Nitish
16/10/23
Divisional Forest Officer,
Ramgarh

Office Letter In English

PN
Project Director,
NHA, PIU
Dhanbad

MUCK DISPOSAL PLAN

Project name :- "Four laning with paved shoulder of section from Km 53.600 (Gola on NH-320) to Km 81.446 (ormanjhi on NH-320B) in the State of Jharkhand on Hybrid Annuity Mode"

Client Name :- National Highway authority of India

Concessionaire:- M/S PRA Gola Ormanjhi Highway Private Limited

Independent Engineer :- M/S TPF Engineering Pvt. Ltd. In Association with Rotrans



Approved
as per letter No. 2248
dated 16/12/23

Kishor
Divisional Forest Officer
Rangarh Forest Division

Anil
Project Director
NHAI-PIU, Rangarh

pu
Project Director,
NHAI, PIU
Dhanbad

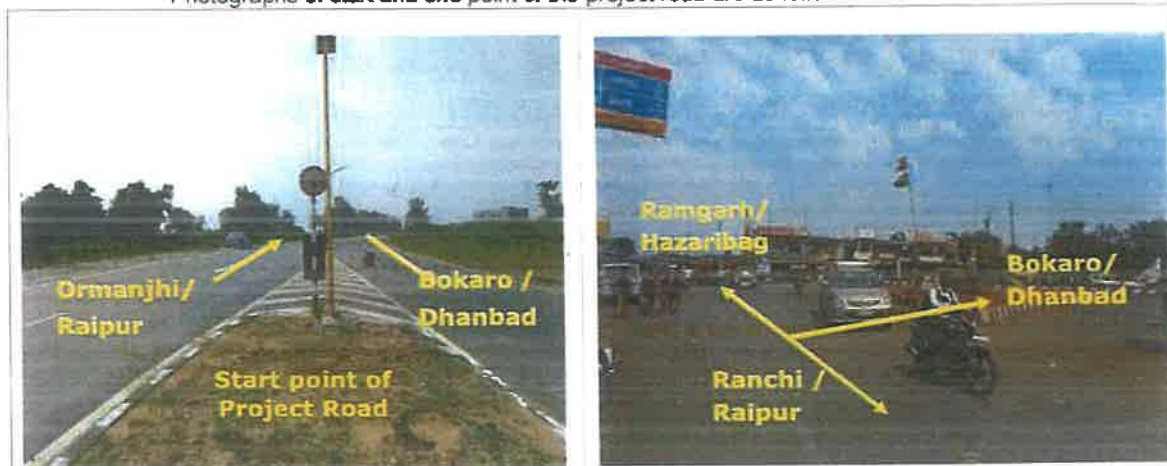
MUCK DISPOSAL PLAN

GENERAL

The National Highways Authority of India (NHAI) is responsible for execution and maintenance of National Highway stretches entrusted to the state Government within the state boundary on behalf of the Ministry of Road Transport & Highways, Government of India (MoRT&H).

The Ministry of Road Transport & Highways, Government of India has entrusted the National Highways Authority of India (NHAI) for the work of Development of Economic Corridors, Inter corridors and feeder route to improve the efficiency of freight movement in India of NH 320 (old NH 23) from Km 53.600 (Gola on NH-320) to Km 81.446 (ormanjhi on NH-320B) in the State of Jharkhand on hybrid Annuity Mode.

Photographs of start and end point of the project road are as follows:



Start Point of Project Road at Jainia (Bokaro)

End Point of project road at Ormanjhi (Ranchi)

Importance of the Project Road



Project Director
NHAI, PIU
Dhanbad

Project Director
NHAI-PIU, Ramgarh

A direct connection between Dhanbad to Raipur avoiding Ramgarh is considered in this part of Economic Corridor of Bharatmala Pariyojana. To connect Dhanbad and Raipur the alignment is proposed from Dhanbad to Bokaro through NH-18 (Old NH-32) thence to Balidih, Siwandih, Jaina, Petarwar, Gola through NH-320 (Old NH-23) thence to Koiya, Bariatu, Kulhi, Charo, Id More thorough MDR 101 thence to Sandi, Dardag, Ormanjhi through MDR 105 & thence intersecting with NH-20 (Old NH 33) at Ormanjhi block chowk to reach Ranchi. Thereafter it follows the available route to Raipur through Gumla, Pathalgaon, etc.

The National Highway Authority of India proposed to develop existing RCD Road originating at Gola connecting with NH-320 Km 53.600 and ending at ormanjhi connecting NH-20 (NH 320B) Km 81.446, Package-2 a fully modern system for safe and efficient movement of traffic in the state of Jharkhand. The construction package for the project includes developing the existing two lane carriageway to four lane carriageway including service road in majority of stretches with green field corridor. The construction package mainly connects two main NH.

The project road from Gola to Ormanjhi is located on East-West direction. The horizontal alignment of existing road stretch is passing through several congested settlements/habitational areas with presence of sharp and reverse curves, where the geometric improvement is required. Horizontal alignment of the proposed road has been designed based on the latest NHA Office Memorandum no. NHA/Bharatmala/EC/DPR/2016 dated 14.05.2018 and 03.01.2018 prescribed for Economic Corridor. The design has been carried out to provide seamless freight movement between origin and destinations. Geometric improvement has been done at sharp / reverse curve locations as per recommended design speed. The details of Geometric improvement done along the proposed alignment are presented below in Table No. 1.

Table No.- 1
(Horizontal Curve Details of Proposed Alignment)

Sl. No.	Design Chainage (km)	Radius (m)	Design Speed (kmph)
1.	54+276.499	1950	100
2.	56+258.137	1075	100
3.	58+533.472	2000	100
4.	60+635.939	8000	100
5.	62+930.153	740	100
6.	64+369.419	750	100
7.	65+208.074	14000	100
8.	67+027.850	700	100
9.	68+413.16	700	100



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Project Director
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10.	70+373.206	900	80
11.	71+210.670	900	80
12.	72+195.599	2000	80
13.	73+718.185	2000	100
14.	75+281.450	5000	100
15.	76+955.649	10000	100
16.	78+205.647	2000	100
17.	79+515.946	8000	100
18.	80+967.231	450	100

The Project Stretch of NH-320B from Km 53.600 to Km 81.446 has flexible pavement. The existing 2-lane carriageway will be Constructed newly with requisite connection of existing road as service road. The new four-lane will be constructed completely in modified Alignment includes green field area. There are four Bypass (Gola, Beyang, Improper alignment Hill-Section, sanri/Lotwa/Guru/Dardag). The service road, LVUP, SVUP, Major Junction, Minor junctions are provided through project Alignment in requisite areas to facilitate the local traffic.

NHAI is committed to offset this loss of trees by replacing the felled trees by planting at least Five times the number as per recommendation of High Power committee. Not only this, following the approach of "Corridor Development & Management" rather than "Highway Development"; NHAI Plans to enhance the aesthetics of the highway corridor from all possible angles. Highways are not being looked upon merely as a means of transportation, but an Integral part and parcel of the physical environment and Socio-economic milieu.

While Bharatmala Pariyojna Project from Gola (NH-320) to Ormanjhi (NH-320B) formulated project specific strategies for plantation of trees along the highway guidelines for median and avenue plantation for the whole corporate were prepared in order to ensure uniformity of operations.

The followings points will be taken care while handling Muck.

- ❖ Keep the objective in view that soil from excavation should be put to best possible use in fill area unless the material is declared unfit. Where different grade of materials are met with proper arrangement of operations is planned in such a way that the best material is reserved for use in the Embankment up to desired height as well as top 0.5m subgrade.
- ❖ Excavated materials usable in pavement constructions shall be stacked at convenient locations and proper records are kept.



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Dhanbad

Ashwini
Project Director
NHAI-PIU, Ramgarh

- ❖ Unsuitable materials (Existing Road Dismantle Material) will be utilized for making approach road /haul road , worker camp / Construction camp where it cannot get easily washed away by rain.
- ❖ As per assumption, major of soil to be obtain from excavation, is suitable material and shall be used as per project requirement meeting with technical specification. Only top soil which is generally fertile soil, shall be used in median/divider of carriageway, slope portion of road for vegetation purpose and this will helps us to protect erosion; so that this material shall be stored in such a manner to full-fill project requirement all along.
- ❖ It will Ensured that necessary measures are taken to prevent soil erosion, blockage of streams and water pollutions.
- ❖ A close watch on the cut slopes and excavated areas will be done to see whether these require any protection/drainage measures for suitability/performance.
- ❖ We will be make it sure about the classification of excavated materials. Where additional pavement is involved, ensure proper measurements, record and evidence, etc.
- ❖ Check the finished cut surface for levels and slopes regularly.
- ❖ Have the top soil (removed earlier and conserved) applied on to cut slopes, median, berms and other disturbed areas. Have these areas sodded or seeded to protect against erosion.

ENGINEERING MEASURES

- ❖ Retaining Wall/RE-Wall – usable material shall be spread and rolled behind retaining wall/RE-wall is proposed to be built up at various location of project Alignment. In addition, compaction would also be done after dumping the material on every cycle and simultaneously improving the drainage of the disposal site. All the approach roads to various project structures will be constructed by employing the methodology recommended by National Highway with minimal environmental damage. The methodology consists in developing the formation width is half cutting and half filling, so that the materials obtained from cutting are utilized in filling. The excavation on hill side will be done to get a stable slope for the materials encountered. At places suitable measures like breast-wall/Toe-wall shall be done in natural slope to retain filled material, particularly where there is problem of retaining the hill slope.
- ❖ To minimize the environmental damage, construction material like stones, dusts, etc., required for the construction of road will be obtained mostly from the excavated material.




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- ❖ In the streams, cross-drainage structure will be provided to prevent the erosion of nala bed.
- ❖ In addition, stone/concrete work on the downstream area will also be provided at vulnerable places to minimize erosion

MUCK DISPOSAL QUANTITY-

- ❖ The total excavation quantity likely to be generated from the Project Alignment (km- 53.600 to 71.300) will be 867644.00 Cum, out of which around 867644.0 cum likely to be generated from forest area involve in project alignment. Out of 867644.0 Cum of excavation, 424913.0 Cum material is assuming soft rock/hard rock in the stretch of Chainage Km. 69+150 to 70+000, Village -Pancha , which may be used if the same stone material is suitable meeting with technical requirement . The total Filling of 1532401.0 cum will be required in the project alignment (km- 53.600 to 71.300) including forest area (Qty. 57183.0 Cum) in the project alignment.
- ❖ Excavation quantity up to 150 mm top soil (Qty. 30240.0) shall be preserve for vegetation purpose in Road Median portion as it may be fertile.

Table: Calculation of Muck to be disposed.

❖ Quantity calculation details of forest area involve in Project Alignment

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	69+160	70+000	840		4,24,913.0
	Total >>>>>>>				4,24,913.0

❖ Quantity utilization calculation details of forest area materials in the Project Alignment

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	54+230	54+300	70	5,283.00	
2	55+070	55+200	130	12,700.00	
3	63+820	64+020	200	6,300.00	
4	70+000	71+300	1300	32,900.00	
	Total >>>>>>>			57,183.00	



for
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Arul
Project Director
NHAI-PIU, Ramgarh

Abstract Quantity

Sl. No.	Descriptions	Quantity (cum)
1	Total Excavation (Including forest area)	8,67,644.00
2	Excavation Quantity Generated from forest area	4,24,913.00
3	Total Filling Quantity (Including forest area)	15,32,401.00
4	Filling quantity Generated from forest area	57,183.00
5	Quantity preserves for vegetation purpose	30,240.00
6	Excavated quantity from forest area to be dispose (2-4+5)	3,97,970.00
7	Total Muck to be disposed	Nil

- ❖ **Note:-** Swell factor calculation will be not applicable in the above said project because there will be no muck will be generated .

Quantity calculation details for Project length of Cutting Portion

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	54800	54900	100		2,396.42
2	60570	60750	180		10,077.11
3	61200	61400	200		15,826.56
4	61630	61830	200		9,888.89
5	62230	62390	160		8,085.73
6	63930	64350	420		27,983.27
7	64810	65080	270		12,276.87
8	69160	70000	840		4,24,913.94



Ami
Project Director
NHAI-PIU, Ramgarh

PV
Project Director,
NHAI, PIU
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9	70000	70460	460		1,65,622.93
10	70770	71300	530		1,90,572.98
Total >>>>>>					8,67,644.70

Table: Details of Muck Disposal Areas (Non-Forest/ forest area)

❖ Quantity calculation details for Project length of Filling Portion

Sr No.	Chainage		Length	Quantity	
	From	To		Filling	Cutting
1	53600	54000	400	27996.08	
2	54000	54800	800	60957.19	
3	54900	55200	300	30281.38	
4	55200	56000	800	151904.58	
5	56000	57000	1000	137339.01	
6	57000	58000	1000	203626.04	
7	58000	59450	1450	132010.86	
8	59450	60570	1120	109887.41	
9	60750	61200	450	16580.47	
10	61400	61510	110	3481.51	
11	61510	61630	120	2981.24	
12	61830	62230	400	14778.09	
13	62390	62690	300	10213.76	
14	62690	63230	540	50481.70	
15	63230	63930	700	42854.89	
16	64350	64750	400	37551.40	



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17	64750	64810	60	153.86	
18	65080	66000	920	65697.11	
19	66000	66990	990	78117.56	
20	66990	67200	210	20569.53	
21	67200	67500	300	41151.44	
22	67500	68000	500	62196.34	
23	68000	69160	1160	198801.57	
24	70460	70770	310	32788.29	
Total >>>>>>				1532401.29	



Amit
Project Director
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Ch.55+224 Filling



Ch.56+290n Filling



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Ch.53+750 Filling



Ch.54+590 Filling



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Ch.57+130 Filling



Ch.58+260 Filling

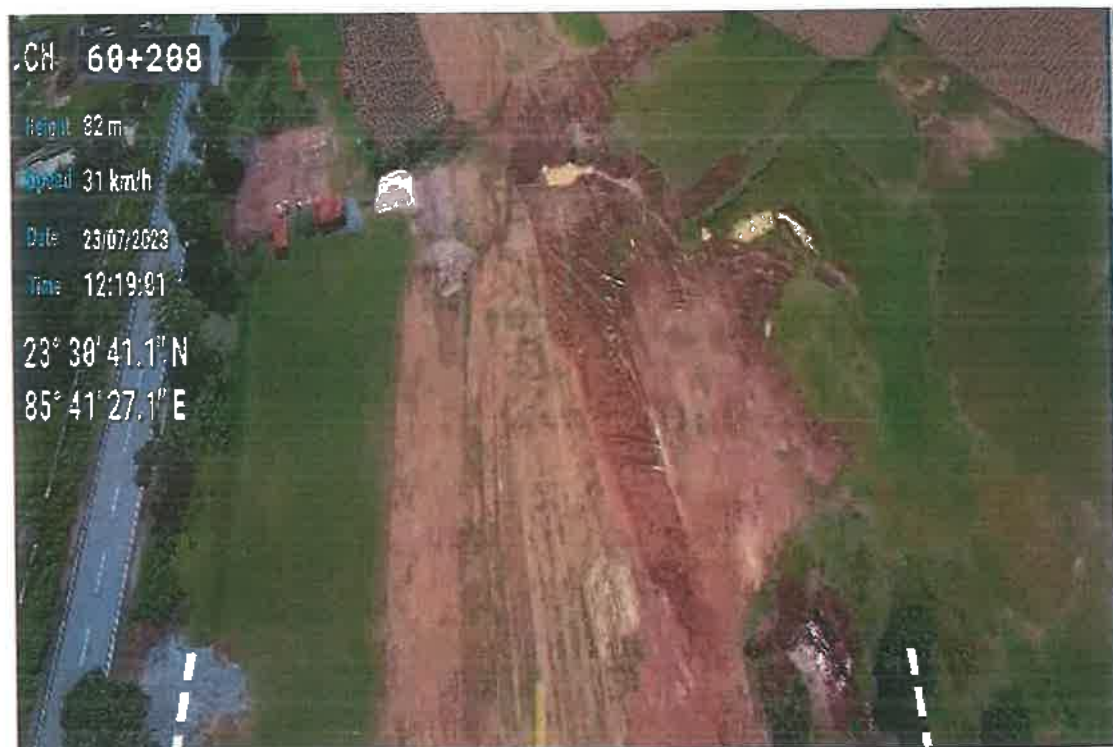


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Dhanbad

Almi
Project Director
NHAI, Ramgar



Ch.59+300 Filling



Ch.60+280 Filling



kr
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 Dhanbad

Anil
Project Director
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Ch.61+570 Cutting



Ch.62+330 Filling



rc
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Amit
Project Director
 NHAI-PIU, Ramgarh



Ch.63+400 Filling



Ch.64+500 Filling



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Ch.65+770 Filling



Ch.66+350 Filling

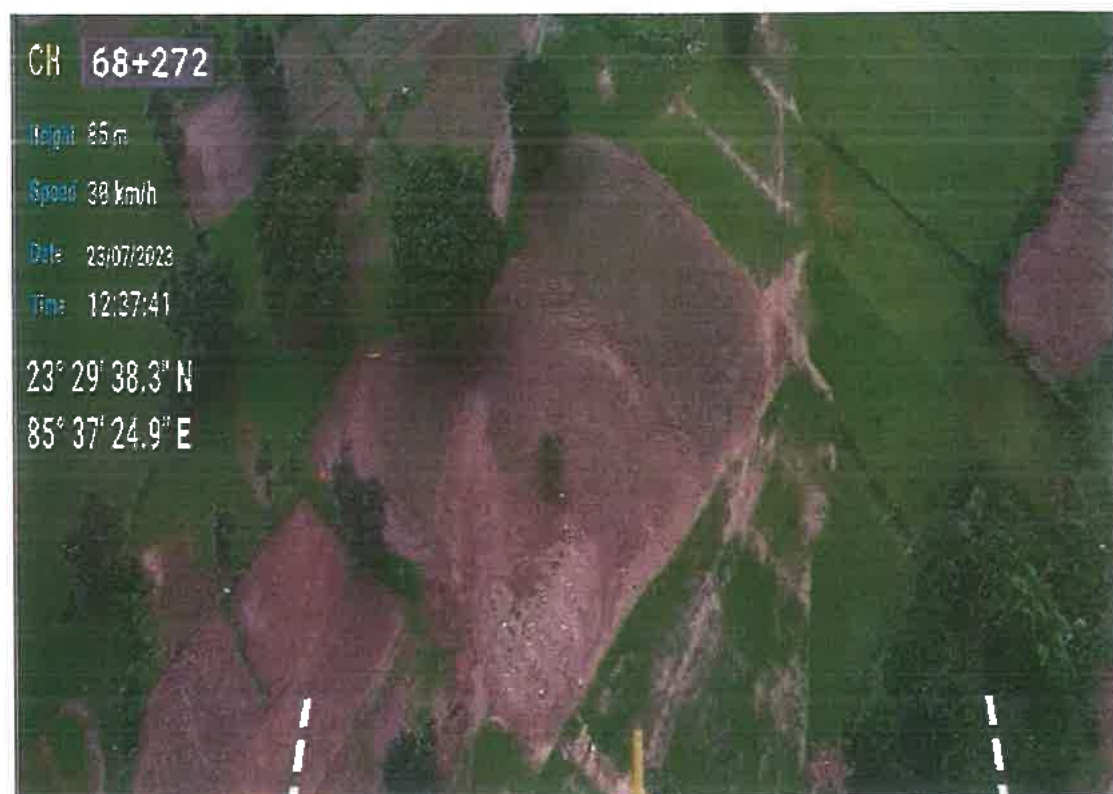


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Project Director
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Ch.67+420 Filling

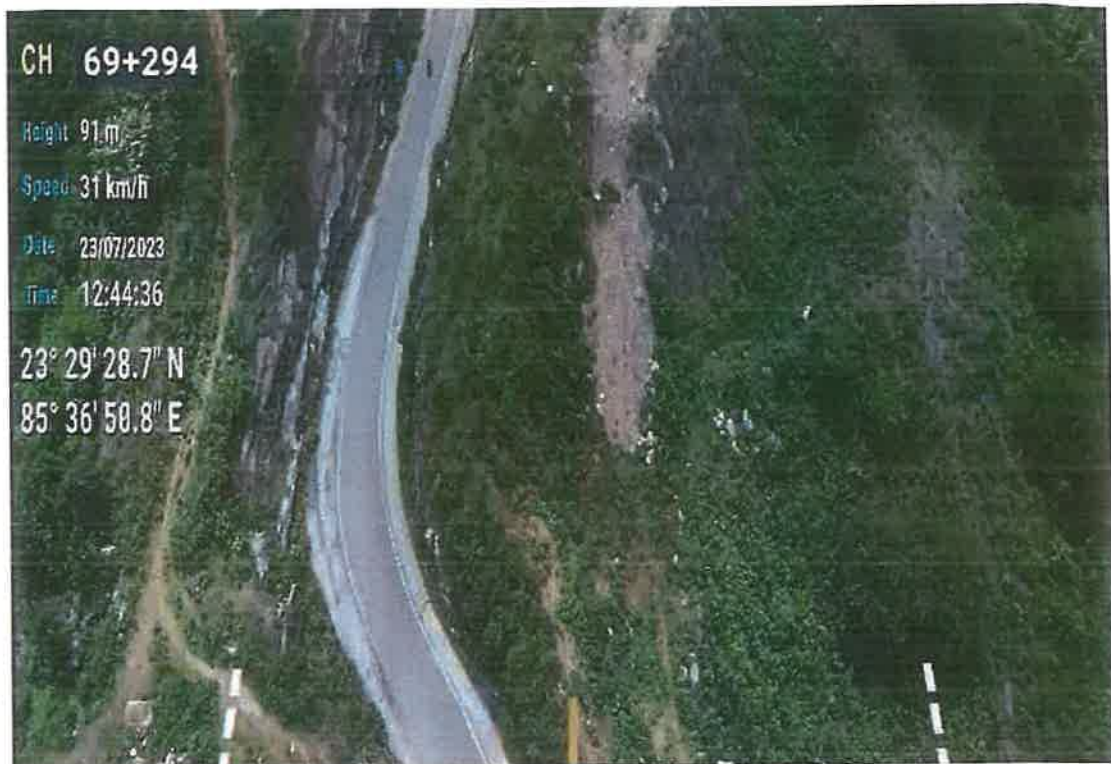


Ch.68+270 Filling

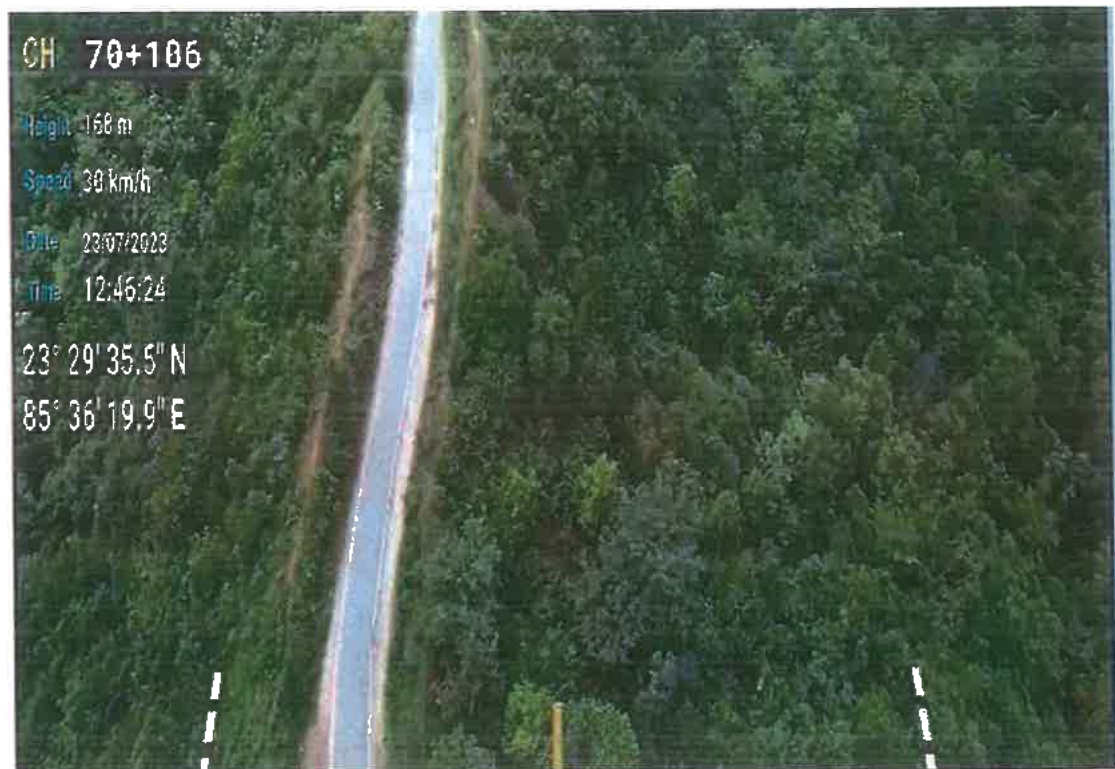


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Ch.69+290 Filling



Ch.70+100 Cutting

W
Project Director,
NHAI, PIU
Dhanbad



Almi
Project Director
NHAI-PIU, Ramgarh



Ch.71+200 Cutting




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Dhanbad


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Untitled Map

Write a description for your map.

Gola dam

Legend

- 📍 A challenger twister
- 📍 BAGTA (home)
- 📍 Block Reference
- 📍 Block Reference
- 📍 Block Reference
- 📍 chulupalu ghadi
- 📍 College
- 📍 Feature 1
- 📍 Feature 2
- 📍 Feature 3
- 📍 Feature 4
- 📍 Jharkhand Govt Wine Shop
- 📍 Navajara Church
- 📍 Polyline
- 📍 Rajrappa More
- 📍 Style1
- 📍 Style2
- 📍 Style3

Getalsud dam



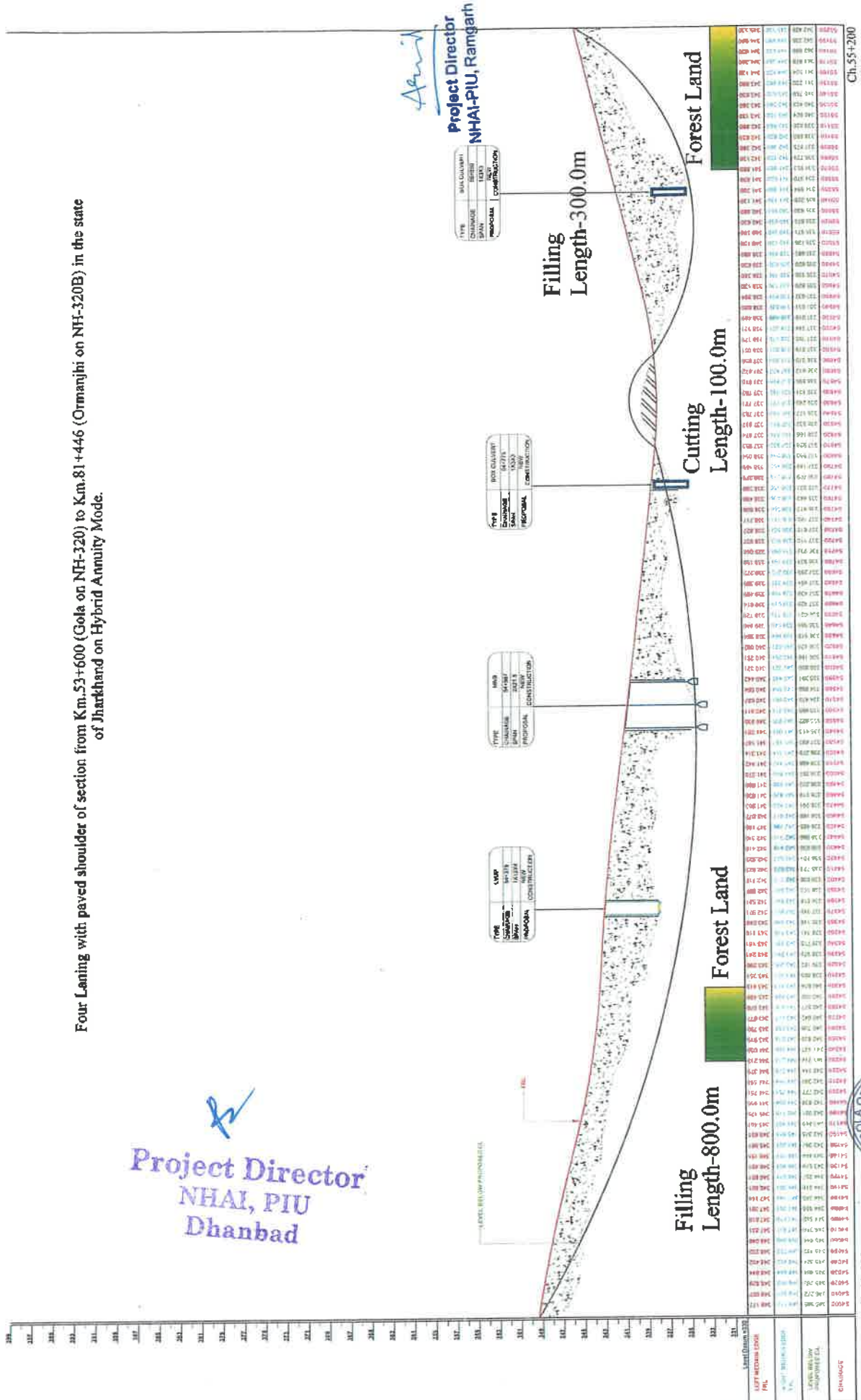
Amul

Project Director
NHAI, PIU
Dhanbad

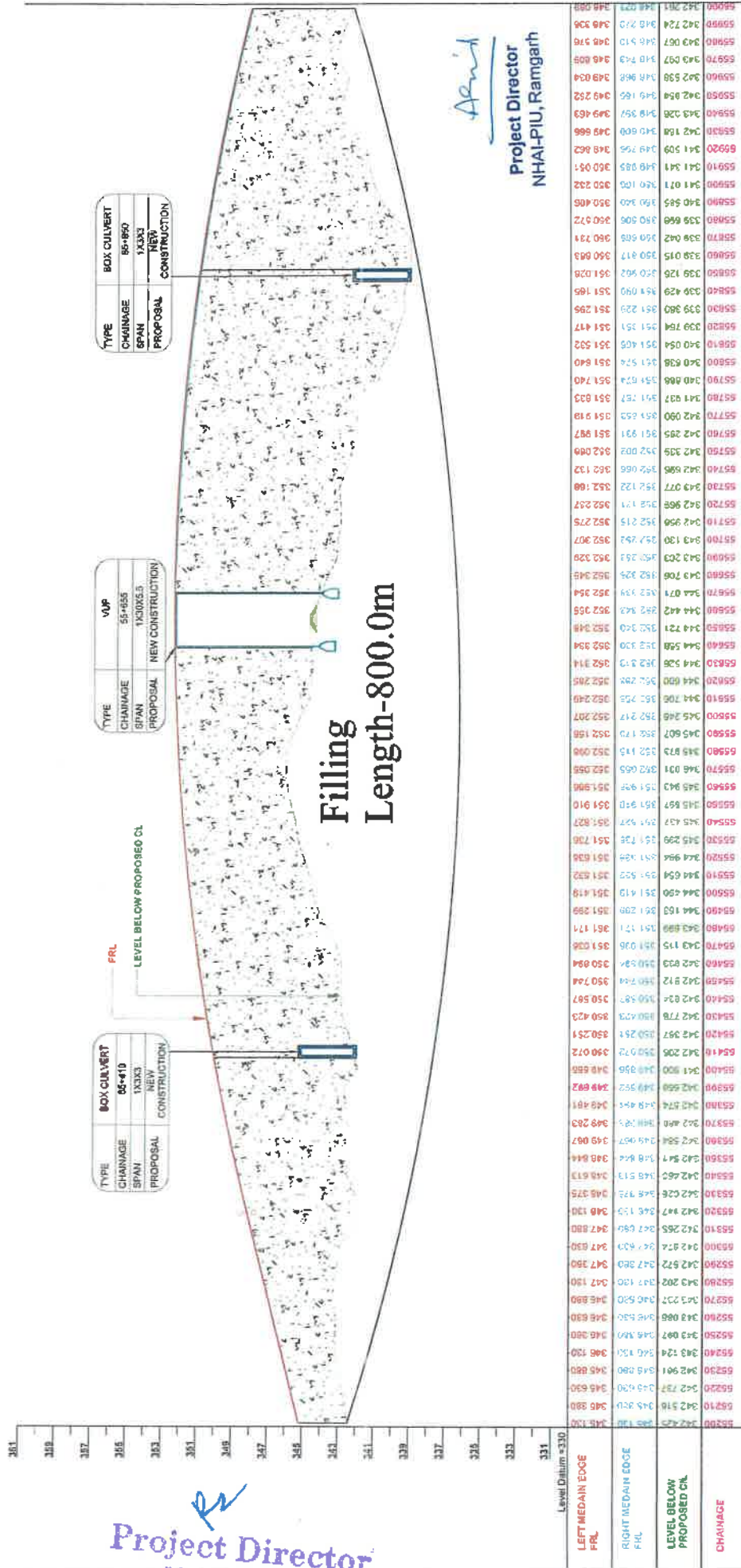
Four Lining with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.

Project Director
NHAI, PIU
Dhanbad

Project Director
NHAI-PIU, Ramgarh



Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



Ch.56+000

Ch.55+200



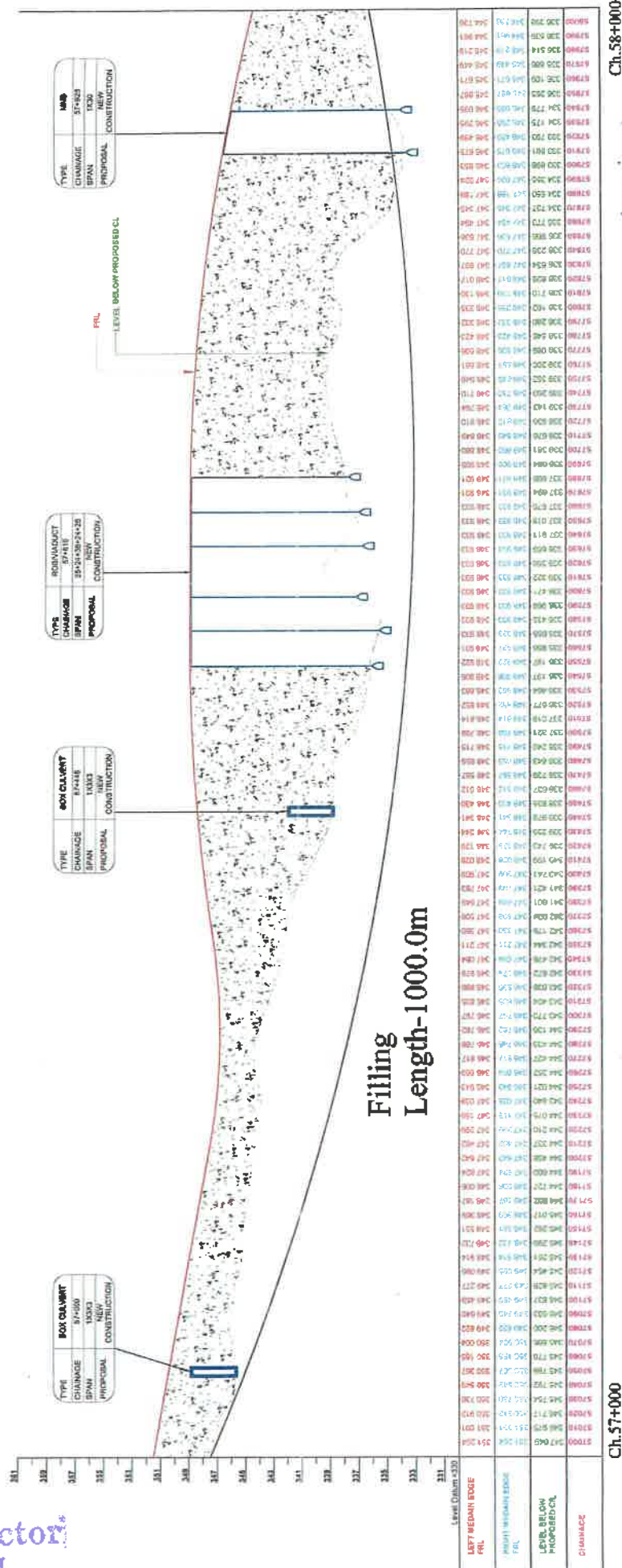
Project Director
MIS, PIU
Dhanbad



Ch. 57+000

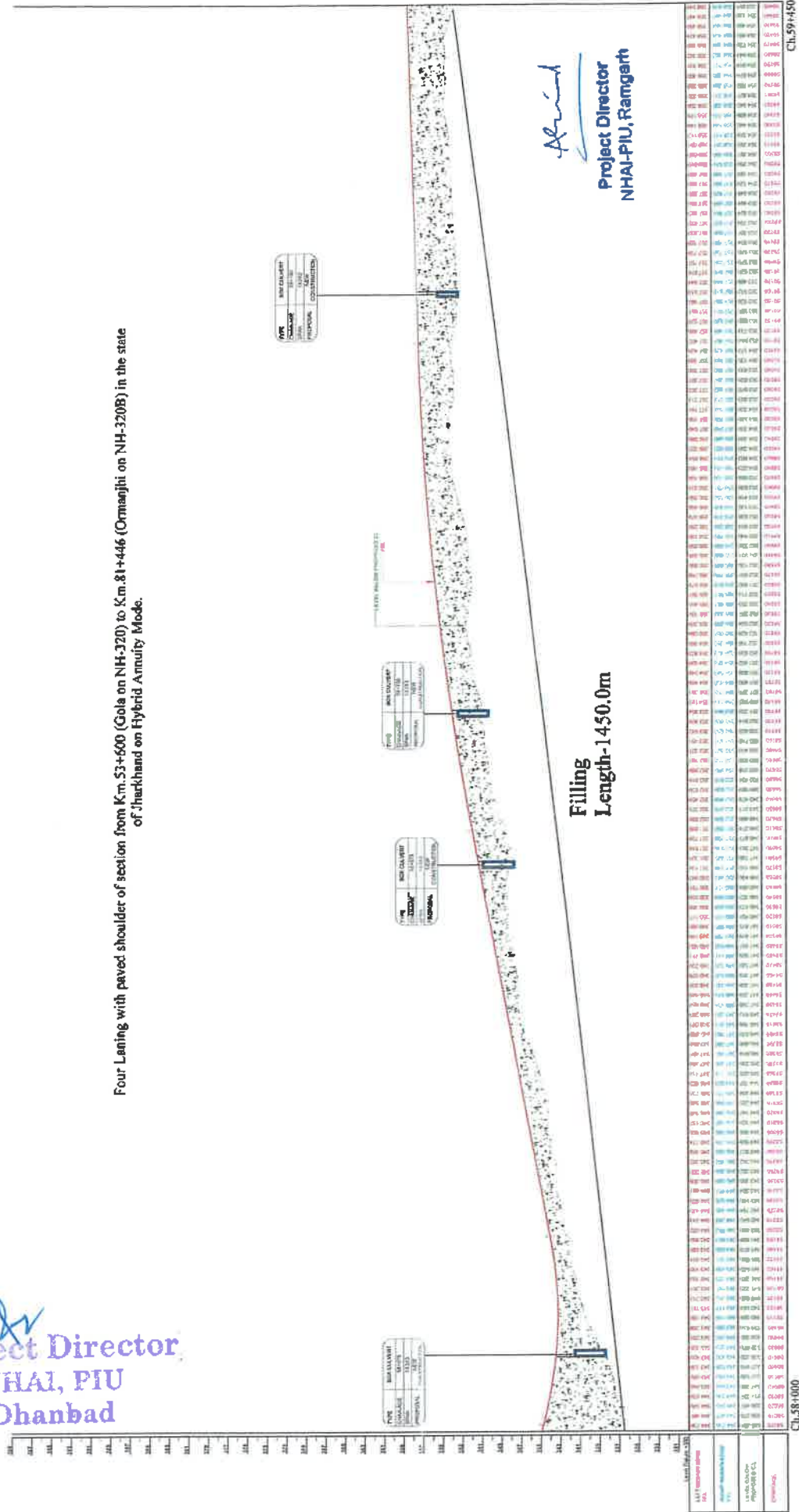
Project Director
NHAI, PIU
Dhanbad

Four Lining with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



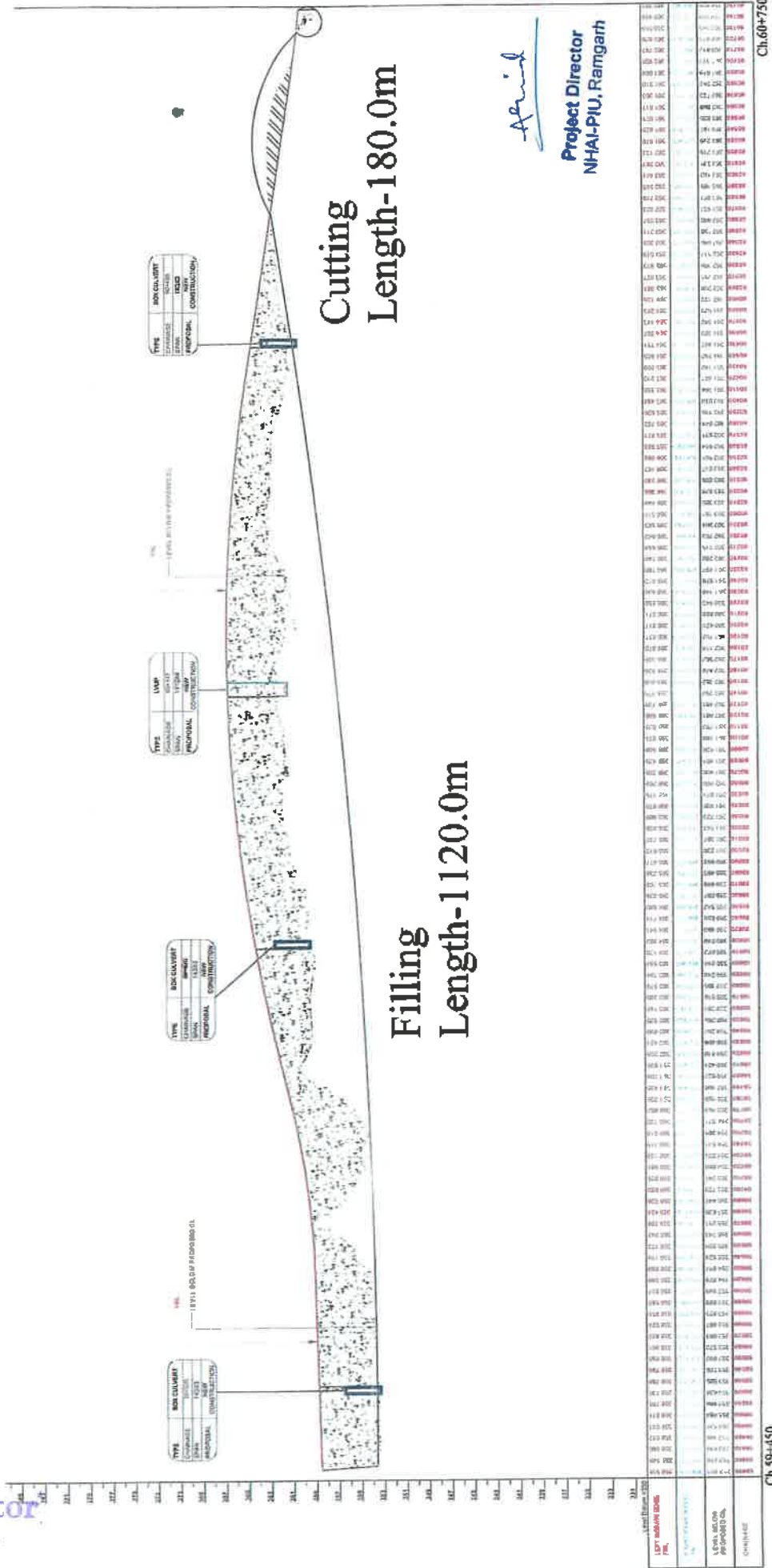
Project Director
NHAI, PIU
Dhanbad

Four Lining with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



Project Director
NHAI, PIU
Dhanbad

Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.

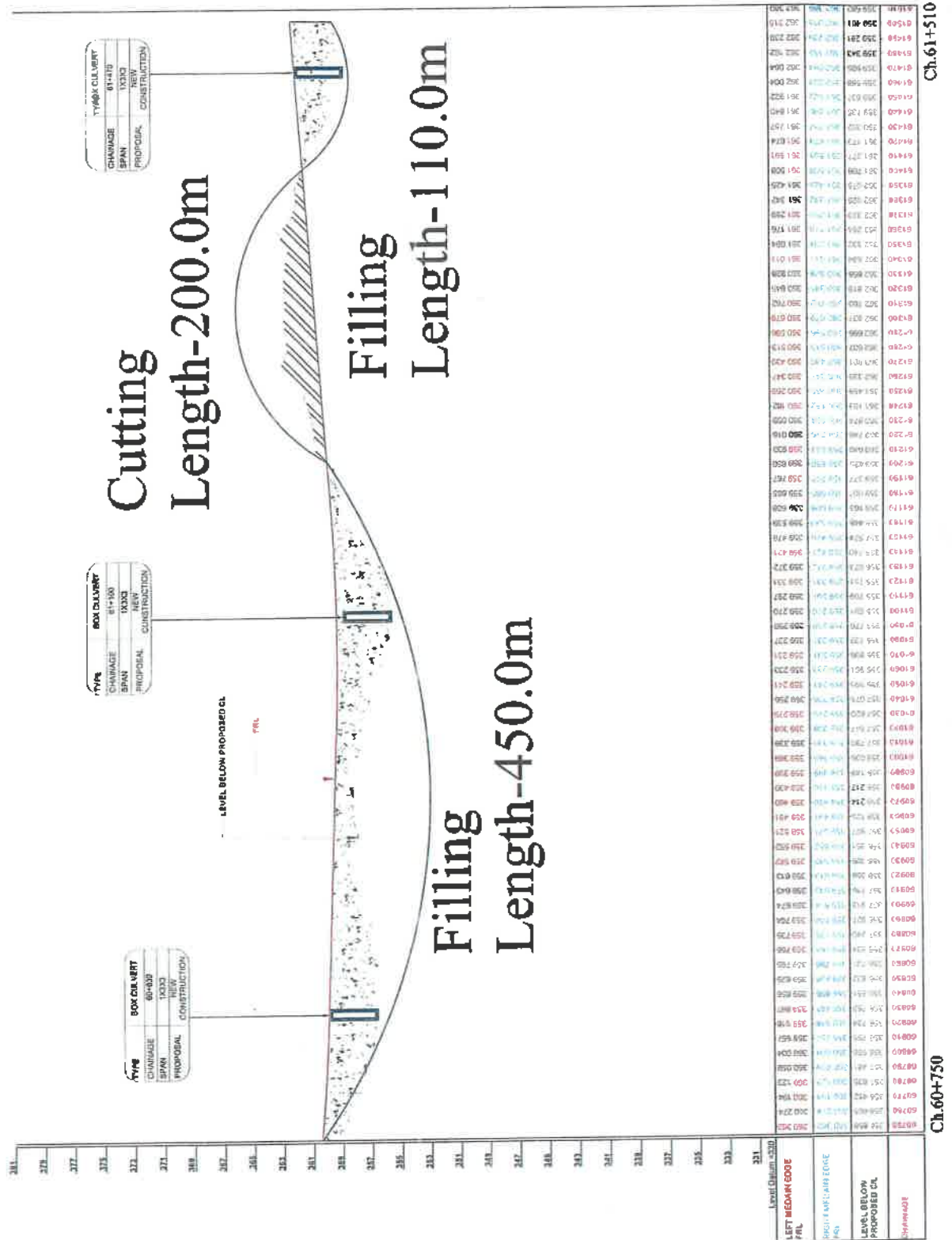


Project Director
NRAI, PIU
Dhanbad



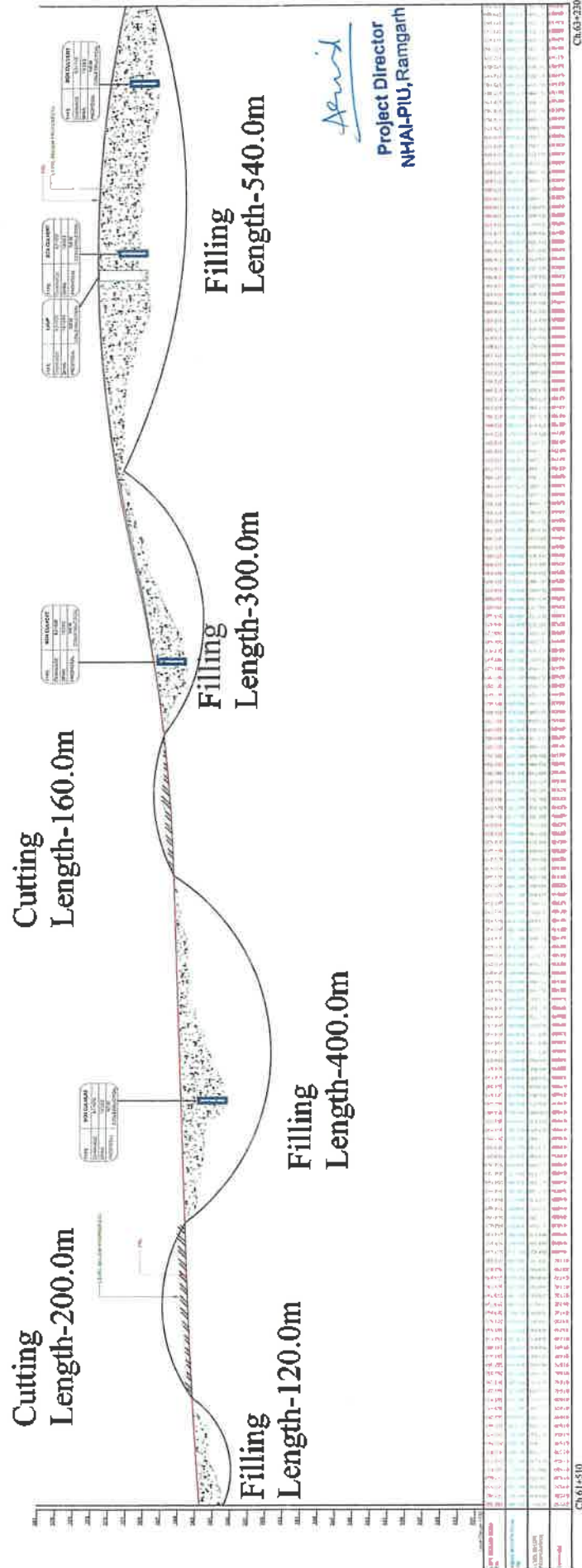
Am

Project Director
NHAI-PIU, Ramgarh



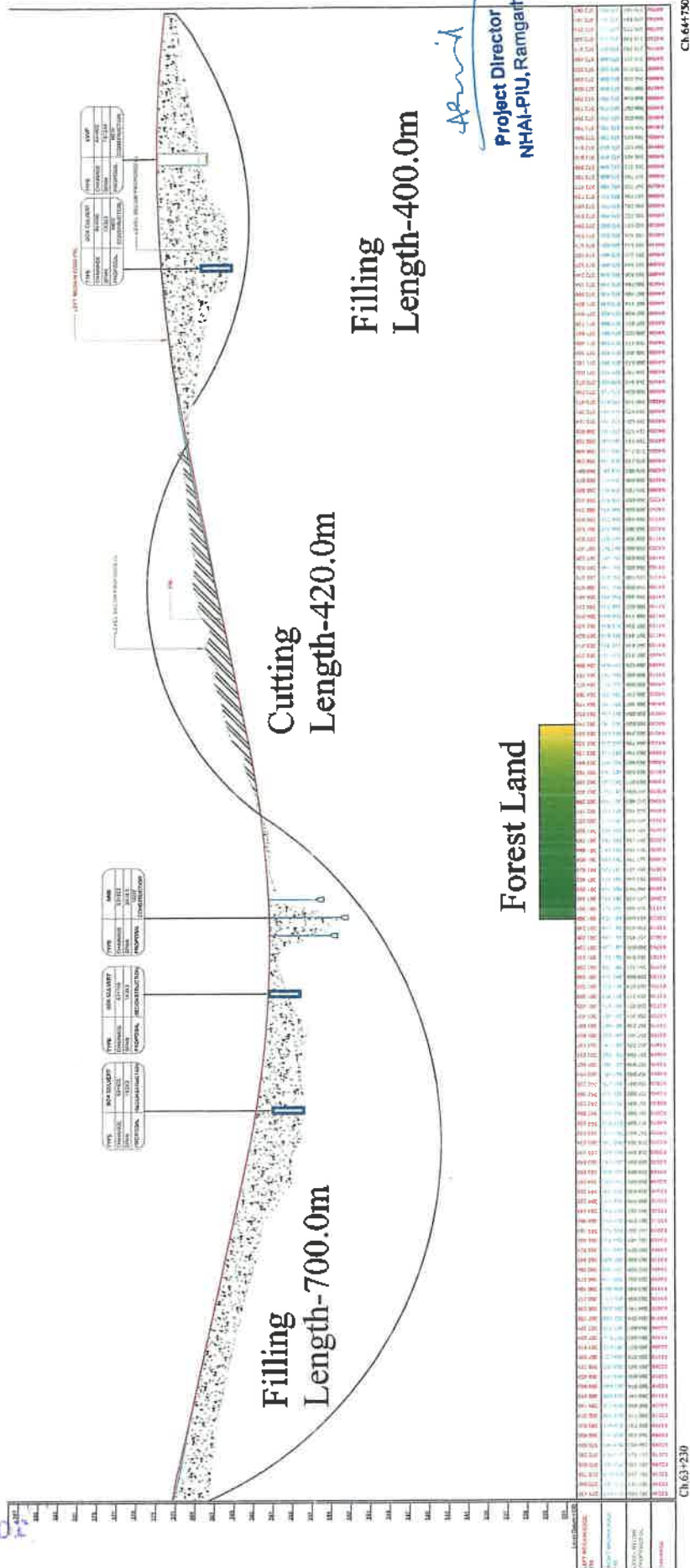
Project Director
NHAI, PIU
Dhanbad

Four Lining with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Omajhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



Project Director
NHAI, PIU
Dhanbad

Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



Project Director
NHAI, PIU
Dhanbad

Four Lining with paved shoulder of section from Km.53+600 (Gole on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.

Filling
Length-60.0m

Cutting
Length-270.0m

Filling
Length-920.0m

Amul

Project Director
NHAI-PIU, Ramgarh

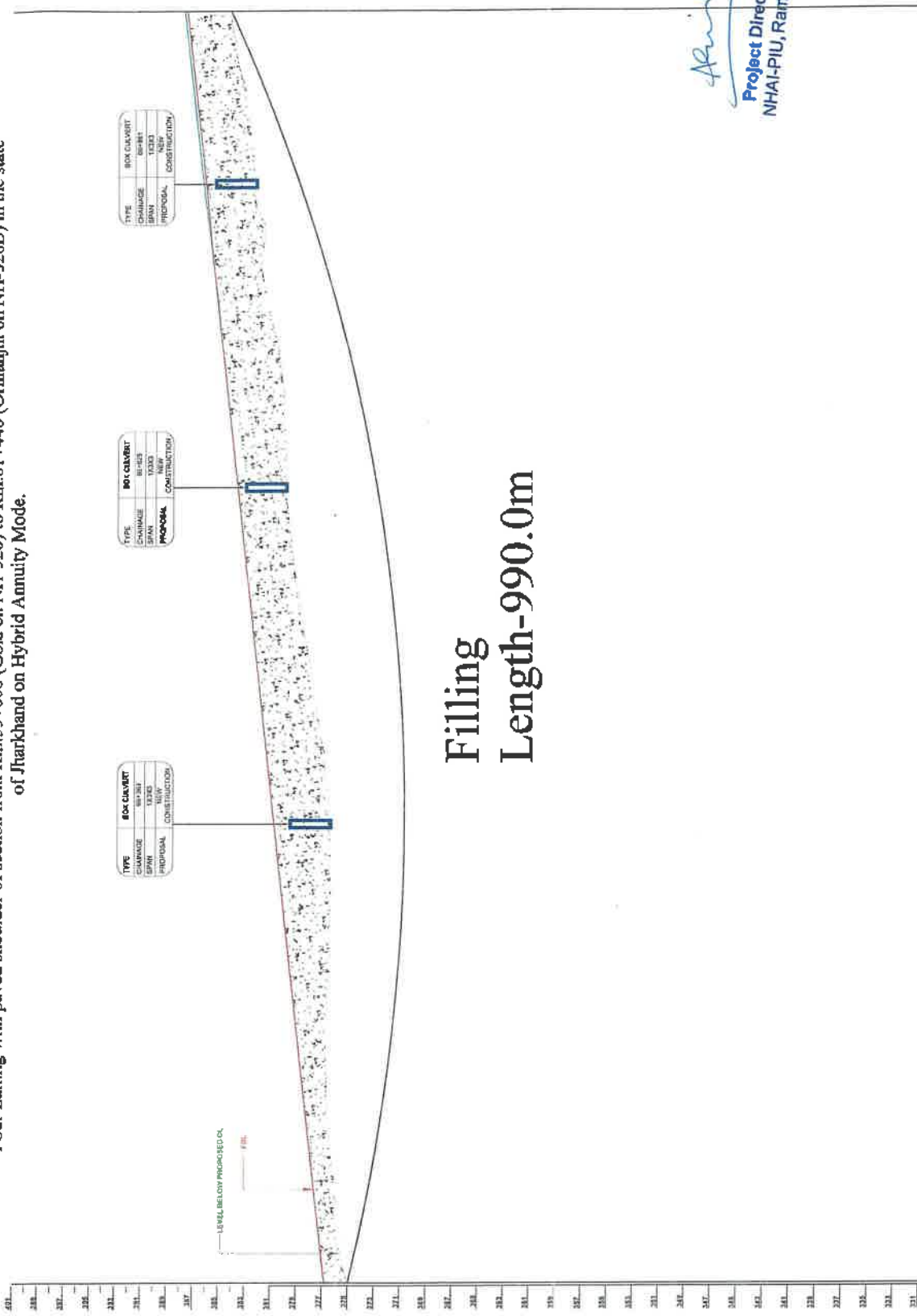
Station	Level (m)	Width (m)	Area (sqm)	Volume (cu m)	Remarks
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311.020	10.020	10.020	10.020	10.020	...
311.030	10.030	10.030	10.030	10.030	...
311.040	10.040	10.040	10.040	10.040	...
311.050	10.050	10.050	10.050	10.050	...
311.060	10.060	10.060	10.060	10.060	...
311.070	10.070	10.070	10.070	10.070	...
311.080	10.080	10.080	10.080	10.080	...
311.090	10.090	10.090	10.090	10.090	...
311.100	10.100	10.100	10.100	10.100	...
311.110	10.110	10.110	10.110	10.110	...
311.120	10.120	10.120	10.120	10.120	...
311.130	10.130	10.130	10.130	10.130	...
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311.170	10.170	10.170	10.170	10.170	...
311.180	10.180	10.180	10.180	10.180	...
311.190	10.190	10.190	10.190	10.190	...
311.200	10.200	10.200	10.200	10.200	...
311.210	10.210	10.210	10.210	10.210	...
311.220	10.220	10.220	10.220	10.220	...
311.230	10.230	10.230	10.230	10.230	...
311.240	10.240	10.240	10.240	10.240	...
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311.260	10.260	10.260	10.260	10.260	...
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311.310	10.310	10.310	10.310	10.310	...
311.320	10.320	10.320	10.320	10.320	...
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311.350	10.350	10.350	10.350	10.350	...
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311.370	10.370	10.370	10.370	10.370	...
311.380	10.380	10.380	10.380	10.380	...
311.390	10.390	10.390	10.390	10.390	...
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311.410	10.410	10.410	10.410	10.410	...
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311.490	10.490	10.490	10.490	10.490	...
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311.610	10.610	10.610	10.610	10.610	...
311.620	10.620	10.620	10.620	10.620	...
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311.640	10.640	10.640	10.640	10.640	...
311.650	10.650	10.650	10.650	10.650	...
311.660	10.660	10.660	10.660	10.660	...
311.670	10.670	10.670	10.670	10.670	...
311.680	10.680	10.680	10.680	10.680	...
311.690	10.690	10.690	10.690	10.690	...
311.700	10.700	10.700	10.700	10.700	...
311.710	10.710	10.710	10.710	10.710	...
311.720	10.720	10.720	10.720	10.720	...
311.730	10.730	10.730	10.730	10.730	...
311.740	10.740	10.740	10.740	10.740	...
311.750	10.750	10.750	10.750	10.750	...
311.760	10.760	10.760	10.760	10.760	...
311.770	10.770	10.770	10.770	10.770	...
311.780	10.780	10.780	10.780	10.780	...
311.790	10.790	10.790	10.790	10.790	...
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311.820	10.820	10.820	10.820	10.820	...
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311.900	10.900	10.900	10.900	10.900	...
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311.960	10.960	10.960	10.960	10.960	...
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311.980	10.980	10.980	10.980	10.980	...
311.990	10.990	10.990	10.990	10.990	...
312.000	11.000	11.000	11.000	11.000	...

Ch.66+000

Ch.64+750



Four Laning with paved shoulder of section from Km.53+600 (Gola on NH-320) to Km.81+446 (Ormanjhi on NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



Project Director
NHAI, PIU
Dhanbad



Project Director
NHAI-PIU, Raigarh

Station	Left Side	Right Side	Level Below Proposed C.O.	Level Below Proposed C.O.	Level Below Proposed C.O.
331	100.00	100.00	100.00	100.00	100.00
332	100.00	100.00	100.00	100.00	100.00
333	100.00	100.00	100.00	100.00	100.00
334	100.00	100.00	100.00	100.00	100.00
335	100.00	100.00	100.00	100.00	100.00
336	100.00	100.00	100.00	100.00	100.00
337	100.00	100.00	100.00	100.00	100.00
338	100.00	100.00	100.00	100.00	100.00
339	100.00	100.00	100.00	100.00	100.00
340	100.00	100.00	100.00	100.00	100.00
341	100.00	100.00	100.00	100.00	100.00
342	100.00	100.00	100.00	100.00	100.00
343	100.00	100.00	100.00	100.00	100.00
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357	100.00	100.00	100.00	100.00	100.00
358	100.00	100.00	100.00	100.00	100.00
359	100.00	100.00	100.00	100.00	100.00
360	100.00	100.00	100.00	100.00	100.00
361	100.00	100.00	100.00	100.00	100.00
362	100.00	100.00	100.00	100.00	100.00
363	100.00	100.00	100.00	100.00	100.00
364	100.00	100.00	100.00	100.00	100.00
365	100.00	100.00	100.00	100.00	100.00
366	100.00	100.00	100.00	100.00	100.00
367	100.00	100.00	100.00	100.00	100.00
368	100.00	100.00	100.00	100.00	100.00
369	100.00	100.00	100.00	100.00	100.00
370	100.00	100.00	100.00	100.00	100.00
371	100.00	100.00	100.00	100.00	100.00
372	100.00	100.00	100.00	100.00	100.00
373	100.00	100.00	100.00	100.00	100.00
374	100.00	100.00	100.00	100.00	100.00
375	100.00	100.00	100.00	100.00	100.00
376	100.00	100.00	100.00	100.00	100.00
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380	100.00	100.00	100.00	100.00	100.00
381	100.00	100.00	100.00	100.00	100.00
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383	100.00	100.00	100.00	100.00	100.00
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391	100.00	100.00	100.00	100.00	100.00
392	100.00	100.00	100.00	100.00	100.00
393	100.00	100.00	100.00	100.00	100.00
394	100.00	100.00	100.00	100.00	100.00
395	100.00	100.00	100.00	100.00	100.00
396	100.00	100.00	100.00	100.00	100.00
397	100.00	100.00	100.00	100.00	100.00
398	100.00	100.00	100.00	100.00	100.00
399	100.00	100.00	100.00	100.00	100.00
400	100.00	100.00	100.00	100.00	100.00

Ch. 66+990

Handwritten signature
Project Director
NHAI-PIU, Ranganth

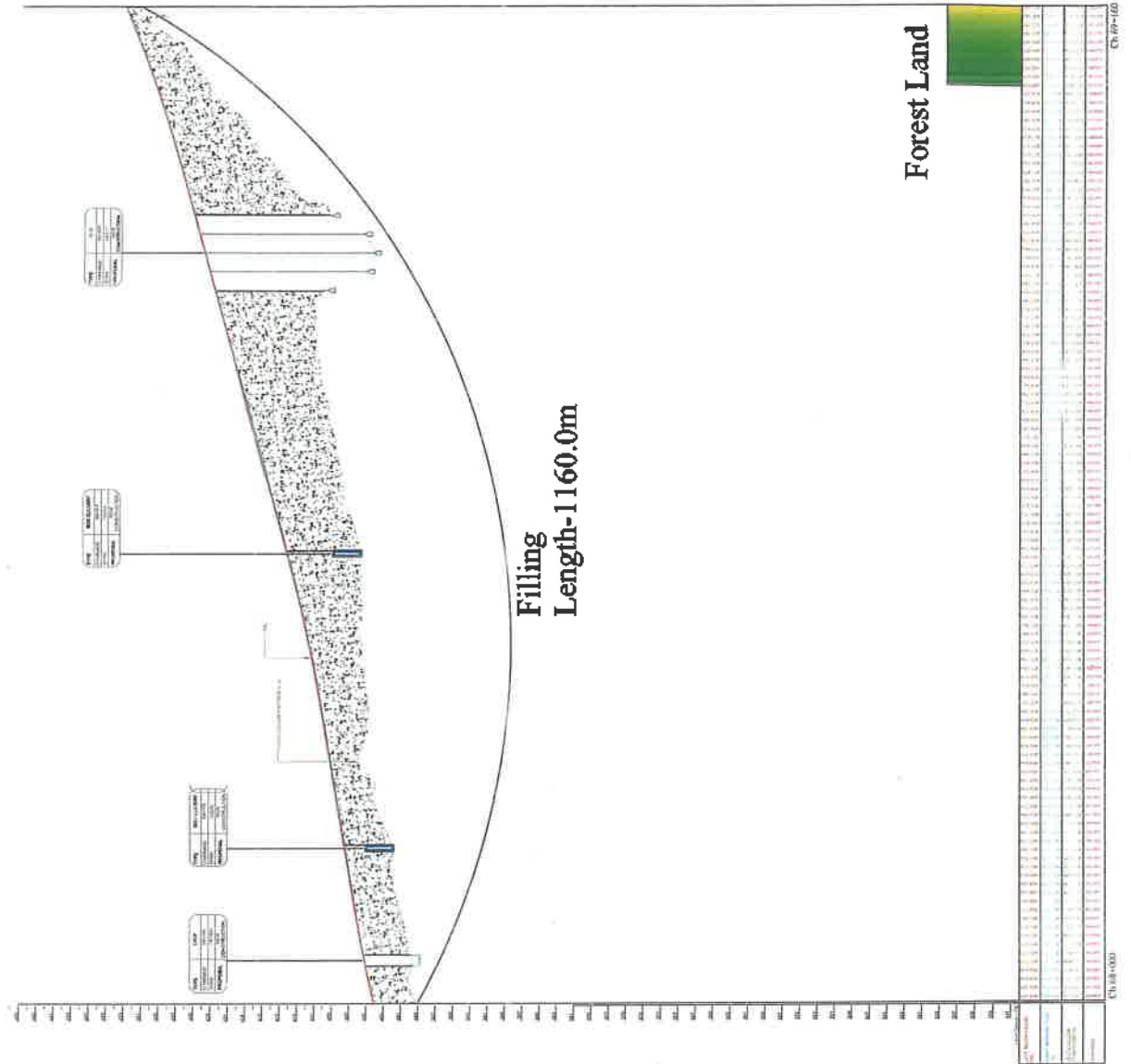


1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

Ch. 66-990

6849 4J

Four Lining with paved shoulder of section from Km 53+000 (Jct. on NH-320) to Km 51+446 (Onset of NH-320B) in the state of Jharkhand on Hybrid Annuity Mode.



Arind
Project Director
NHAI-PIU, Ranganth

Ar
Project Director
NHAI, PIU
Dhanbad



[illegible]


Project Director
NHAI-PIU, Ramgarh

Cutting Length-840.0m

Project Director
NHAI, PEO
Dhanbad



Four Lining with paved shoulder of section from K.m.53+60 (Gula on NH-320) to K.m.81+46 (Ormagui on NH-320) in the state of Jhuatland on Hybrid Annuity Mode.



Forest Land

Project Director
NHAI-PIU, Ramgarh

Cutting Length-460.0m

Filling
Length-310.0m

Cutting Length-530.0m

Project Director,
NHAI, PIU
Dhanbad

Four Lining with paved shoulder of section from Kurus-35+600 (Gole on NH-20) to km 81+946 (Dernaghi) on NH-320B) in the state of Abkhazian on Hybrid Annuity Mode.



Annexure-1

FORM-I
(For linear projects)

Government of Jharkhand
Office of the District Collector
(Welfare Department)

RECEIPT

Sl. No. 1639

Date 25/3/23

Signature

Dated2023

Ref. No.....

TO WHOM EVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's Letter No. II-9/98-FC(pt.) dated 3rd, August 2009 Wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the scheduled rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purposes react with MoEF's letter dated 5th February 2013 wherein MoEF issued certain relaxation in respect of linear projects, It is certified that 7.9725 hectares of forest land proposed to be diverted in favour of *National Highways Authority of India (NHAI)* for **Bharatmal Project- Jainamore, Gola to ormanjhi, Section Expension** in Ramgarh District falls within jurisdiction of Pancha (0.4856 hec.) & Bongai (7.4869 hec.) village in Dulmi Circle.

jurisdiction of Pancha (0.4856 hec.) & Bongai (7.4869 hec.) village in Dulmi Circle.

Sl. No.	Circle	Mauja	Thana no.	Khata no.	Plot no.	GM J.J	Notified Forest	Total Area (in Ha.)	Nature of Land as per Forest Map
1	Dulmi	Pancha	139	01	439	-	0.4856	0.4856	Notified Forest / Parti patthar
		Bongai	138	73	1622	-	4.2493	4.2493	Notified Forest / Pahaad
					1624	-	3.2376	3.2376	
Total						-	7.9725	7.9725	

It is further certified that :

- (a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire 7.9725 Hectare of forest area proposed for *Bharatmala Project- Jainamore, Gola to ormanjhi, Section Expention*. A copy of all consultations and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub- Divisional Level Committee(s) and the District Level Committee are enclosed.
- (b) The diversion of forest land for facilities managed by the Government as required under section -3(2) of the FRA have been completed and the Gram Sabha have been given their consent to it;
- (c) The proposal does not involve recognized rights of Primitive Tribal Groups and Pre-Agricultural Communities.

Enclosure :- As above

Sd

Deputy Commissioner,
Ramgarh.

[Signature]
Project Director
NHAI, PIU
Dhanbad

Memo No.329. Dated25 /...8.2. /2023.

Copy To

1. Additional Chief Secretary, Dept of Forest, Enviroment & Climate Change , Govt . of Jharkhand Nepal House, Doranda Ranchi for kind information.
2. Additional Chief Secretary, Revenue and Land Reform Dept. Govt . of Jharkhand Ranchi for information and necessary action.
3. Secretary Welfare Dept. Govt . of Jharkhand Ranchi for information and necessary action.
- 4..Commissioner North Chotanagpur Division, Hazaribagh for Information and necessary action.
5. Division Forest Officer Ramgarh for information and necessary action.
- 6.Additional Collector, Ramgarh for information and necessary action.
- 7..SDM Sadar, Ramgarh for information and necessary action.
- 8.Project Director, NHAI, Kandra P.O-Bhitia P.S-Govindpur, Dhanbad for kind information.
- 9.Circle Officer Dulmi, Ramgarh for information and necessary action.


23.3.2023
Deputy Commissioner,
Ramgarh.


Project Director
NHAI, PIU
Dhanbad

FORM-I
(For linear projects)

Government of Jharkhand
Office of the District Collectore
(Revenue Sec)

Ref. No.....

Dated2023

TO WHOM EVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's Letter No. 11-9/98-FC(pt.) dated 3rd, August 2009 Wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the scheduled rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purposes react with MoEF's letter dated 5th February 2013 wherein MoEF issued certain relaxation in respect of linear projects, It is certified that **21.0144 hectares** of forest land & G.M.J.J. proposed to be diverted in favour of **National Highways Authority of India (NHAI)** for **Bharatmal Project- Jainamore, Gola to ormanjhi**, Section Expennsion in Ramgarh District falls within jurisdiction of Pancha (1.9257 hec.) & Beyang (0.3331 hec.) village in Dulmi Circle And Bamansangatu (0.6022 hec.), Chakarwali (1.2108 hec), Chopadaru (13.3431 hec.), Dabhathu (1.8249 hec.), Hematpur (0.2449 hec.), Maganpur (0.6688 hec.), Rola (0.6058 hec.) & Sosokala (0.2551 hec.) village in Gola circle.

Sl. No.	Circle	Mauja	Thana no.	Khata no.	Plot no.	GM J.J	Notified Forest	Total Area (In Ha.)	Nature of Land as per Forest Map
1	Dulmi	Pancha	139	01	424	-	1.9257	1.9257	Notified Forest
		Beyang	167	83	510	0.3331	-	0.3331	GM J.J
		Total				0.3331	1.9257	2.2588	
2	Gola	Bamansangatu	67	2	718	-	0.6022	0.6022	Notified Forest
		Chakarwali	61	30	17	-	1.2108	1.2108	Notified Forest
		Chopadaru	66	55	200	-	0.9432	0.9432	Notified Forest
					229	-	1.5409	1.5409	Notified Forest
					241	-	0.933	0.933	Notified Forest
					410	0.2550	-	0.2550	GM J.J
					420	0.1740	-	0.1740	GM J.J
					425	-	0.0769	0.0769	Notified Forest
					246	-	0.6731	0.6731	Notified Forest
					252	-	2.9289	2.9289	Notified Forest
					275	-	0.6896	0.6896	Notified Forest
					102	0.3107	-	0.3107	GM J.J
					124	-	2.958	2.958	Notified Forest
					46	-	1.2322	1.2322	Notified Forest
					66	0.1304	-	0.1304	GM J.J

82
Project Director
NHAI, PIU
Dhanbad

					98	0.2852	-	0.2852	GM J.J
		Dabhatu	25	63	520	1.8249	-	1.8249	GM J.J
		Hemalpur	52	47	828	0.2449	-	0.2449	GM J.J
		Maganpur	62	89	792	0.5092	-	0.5092	GM J.J
					94	0.1598	-	0.1598	GM J.J
		Rola	64	01	1592	-	0.6058	0.6058	Notified Forest
		Total				3.8939	14.8068	18.5005	
3	Gola	Sosokala	58	-	186	-	0.2551	0.2551	Notified Forest
		Total					0.2551	0.2551	
		Gross total				4.227	16.7874	21.0144	

It is further certified that :

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire 21.0144 Acres of forest area proposed for Bharatmala Project-Jainamore, Gola to ormanjhi, Section Exption. A copy of all consultations and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub- Divisional Level Committee(s) and the District Level Committee are enclosed.
 - The diversion of forest land for facilities managed by the Government as required under section -3(2) of the FRA have been completed and the Gram Sabha have been given their consent to it;
 - The proposal does not involve recognized rights of Primitive Tribal Groups and Pre-Agricultural Communities.
- Enclosure :- As above

sd
Deputy Commissioner,
Ramgarh.

Memo No.164.... Dated07..... /02 /2023.

Copy To

- Additional Chief Secretary, Dept of Forest, Enviroment & Climate Change , Govt . of Jharkhand Nepal House, Doranda Ranchi for kind information.
- Additional Chief Secretary, Revenue and Land Reform Dept. Govt . of Jharkhand Ranchi for information and necessary action.
- Secretary Welfare Dept. Govt . of Jharkhand Ranchi for information and necessary action.
- Commissioner North Chotanagpur Division, Hazaribagh for Information and necessary action.
- Division Forest Officer Ramgarh for information and necessary action.
- Additional Collector, Ramgarh for information and necessary action.
- SDM Sadar, Ramgarh for information and necessary action.
- Project Director, NHAI, Kandra P.O-Bhitla P.S-Govindpur, Dhanbad for kind information.
- Circle Officer Gola, Ramgarh for information and necessary action.

06.02.2023
Deputy Commissioner
Ramgarh(Jharkhand)

Project Director
NHAI, PIU
Dhanbad

ANNEXTURE-08

**UNDERTAKING IN REFERENCE TO SECTION-A, PARA 10 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that there shall be no violation of any of the conditions mentioned in MOEF&CC, IRO, GOI letter no. FP/JH/Road/146250/2021/1177 dated 13.06.2023 (stage-i clearance).


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-09

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 01 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that Legal status of forest land shall not be changed.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-10

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 02 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) has already deposited the CA demand raised by forest department which will be taken up by the Forest Department in degraded forest land as per mentioned condition. In this regards, user agency undertakes that if forest department demands any deficit amount, same shall be deposited by user agency.



(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

Project Director
NHAI, PIU
Dhanbad



(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.

Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-11

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 03 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that additional amount of NPV of diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be deposited by the user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-12

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 04 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the trees having diameter less than 7 inches is being translocated as per the set standards of the High-Powered Committee constituted in the State of Jharkhand that governs the tree felling under the supervision/guidance of forest department representative.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-13

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 05 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertake that we will be felling only unavoidable trees under the supervision and direction of the State Forest Department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-14

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 06 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh



**OFFICE OF THE DIVISIONAL FOREST OFFICER,
RAMGARH FOREST DIVISION RAMGARH**

(Near BRL Gate, Ranchi Road, PO-Marar, District-Ramgarh, Pin-829117)

Email id - dfo-ramgarh@gov.in

Mobile No-8987790306

Letter No- 2023

Date:- 30/9/23

To,

Project Director,
NHAI,
PIU, Ramgarh

Subject: Compliance of condition no B-7 (seen to together with condition no-A-03) and interim instructions in this regard.

Ref: 1. Letter No. 1729 dated 22.08.23 of this office
2. Letter No. NHAI/PIU-Ramgarh/NH-320B/Forest/823 dated 22.08.23 of your good office

Sir,

Vide referenced letter 2, you have replied and presented your submissions. Further, it is to inform you that after field survey necessary instructions were given to your representatives on field. To re-iterate, it is submitted that around Ch 71+480, the width of overpass should not be less than 60 meters, preferably 80 meters, and should have proper approach and exit gradual slope with structures creating funneling effect. The pre-existing roads should be filled as per funnel shape requirement, so that a gap is not created in movement path and smooth movement of wildlife especially elephant is ensured. Proper gap with overhead power transmission line should be ensured.

Also, with regards to a major bridge at 68+860 which will act as underpass and other underpasses, it is submitted that the number of piers should be minimized and vertical clearance between ground and lower point of upper girder should be minimum of 7 meters and its width between piers should be minimum of 15 meters. The pre-existing bridge which will act as visual and movement barrier, if the proposed underpass is to be used by wildlife, should be dismantled and debris be removed to increase the utility of the underpass. Also, the new bridge should be painted in camouflage color.

It is to be noted that these instructions are interim in nature and strictly for facilitating faster design process and findings and recommendations of approved WL plan will be final in nature.

Yours Sincerely,

Divisional Forest Officer,
Ramgarh

Memo No- 2023

Date- 30/9/23

Copy 1. DFO, Bokaro/Ranchi for information purpose only.
2. PD-PIU-Dhanbad, NHAI, for information purpose only.

Divisional Forest Officer,
Ramgarh

Office Letter In English

Project Director
NHAI, PIU
Dhanbad

ANNEXTURE-15

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 07 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the suitable under passes for animal movement in Forest Area/ Road stretch as per recommendations of concerned DFO will be provided after due approval of proposal from NHAI competent authority.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-16

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 08 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that unrestricted access will be provided to Forest Department vehicles for Managing forests & wildlife during project operation phase.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-17

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 09 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that strip plantation on both sides of the road shall be raised as per the IRC norms.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-18

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 10 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-19

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 11 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the following conditions shall be ensured as mentioned in In-principal approval :-

- (a) No labor camp shall be established on the forest land.
- (b) The User Agency shall provide alternate fuels preferably LPG to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.
- (c) Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-20

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 12 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that the following conditions shall be ensured as mentioned in In-principal approval :-

- (a) The period of diversion under this approval shall be co-terminus with the period of the project life.
- (b) The forest land shall not be used for any purpose other than that specified in the project proposal.
- (c) The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior Approval of the Ministry of Environment, Forest & Climate Change.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh

ANNEXTURE-21

**UNDERTAKING IN REFERENCE TO SECTION-B, PARA 13 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).**

National Highways Authority of India (NHAI) undertakes that any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, Protection and development of forest & wildlife shall be ensured by this department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad


(A.K Singh)
Project Director (PKG-II),
NHAI, PIU-Ramgarh.
Project Director
NHAI-PIU, Ramgarh



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
परियोजना निदेशक का कार्यालय, परियोजना कार्यान्वयन इकाई, एन.एच.ए.आई.
कॉम्प्लेक्स, कान्द्रा, पोस्ट भीतीया, धाना गोविन्दपुर, धनबाद-828109 (झारखण्ड)

National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)
Office of the Project Director, Project Implementation Unit, NHAI Complex
Kandra, P.O. Bhitia, P.S. Govindpur, Dhanbad-828109 (Jharkhand)
Ph. : 06540-283090, E-mail : dhan@nhai.org / nhaidhanbad@yahoo.in



Ref: 11015/5/PD/DHN/FLT/NH-320/993

Dec. 2nd 2023

To,

Divisional Forest Officer,
Bokaro, Jharkhand.

Sub: In-principle (Stage-I) approval of Central Government under Forest (Conservation) Act 1980 for diversion of 99.7862 ha (Bokaro FD – 66.5436 ha, Ramgarh FD – 28.9869 ha & Ranchi FD – 4.2557 ha) of forest land in favour of NHAI, PIU Dhanbad for construction of Road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ramgarh & Ranchi district of Jharkhand.

Submission of Stage-I Clearance compliance for issuance of Working Permission.

Ref: 1) This office letter no. 964 dated 23.11.2023.

2) MoEF&CC, Integrated Regional Office, GoI letter no. FP/JH/Road/146250/2021/1177 dated 13.06.2023.

Sir,

Please refer MoEF&CC letter dated 13.06.2023 vide which "in-principle" approval of Central Government, was conveyed for of 99.7862 ha (Bokaro FD – 66.5436 ha, Ramgarh FD – 28.9869 ha & Ranchi FD – 4.2557 ha) of forest land in favour of NHAI, PIU Dhanbad for construction of road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ramgarh & Ranchi district of Jharkhand. The above referred approval is subject to fulfillment of certain conditions.

In this regard, it is hereby conveyed that conditions as laid down in the above approval has either been fulfilled or we hereby undertake to fulfill them, at appropriate time during the execution of work for subject stretch Jaina More to Gola (NH-23), PKG-I under PIU-Dhanbad & Gola to Ormanjhi (NH-320B), PKG-II under PIU-Ramgarh.

In continuation to this office letter dated 23.11.2023 as per requirement the revised para-wise compliance is hereby submitted, details are as under :-

S.N	Conditions	Remarks of PIU						
C.	Conditions which need to be complied prior to handing over of forest land by the State Forest Department.							
1	The cost of Compensatory afforestation on the CA land (201.885 ha) at the prevailing wage rates as per Compensatory afforestation scheme (Including) the cost of Survey, demarcation and erection of Permanent pillars etc. as required for securing the land against encroachment) including that required for patch plantation shall be deposited in advance with the State Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	As demanded by DFO-Bokaro (Lt. no. 2036 dt. 06.09.2023) to fulfill the condition No. 1, 2, 3 & 4 the following amount after verification from Nodal Officer forest department at Parivesh Portal on 29.09.2023, has been deposited by this office (Annexure – 1 & 2) :- <table border="1"> <thead> <tr> <th>Forest Division</th><th>Forest Area (in Ha.)</th><th>Deposited Amount (in Rs.)</th></tr> </thead> <tbody> <tr> <td>Bokaro</td><td>66.5436</td><td>Rs. 336227041/- out of which Rs. 189319658.00 for CA Amount.</td></tr> </tbody> </table>	Forest Division	Forest Area (in Ha.)	Deposited Amount (in Rs.)	Bokaro	66.5436	Rs. 336227041/- out of which Rs. 189319658.00 for CA Amount.
Forest Division	Forest Area (in Ha.)	Deposited Amount (in Rs.)						
Bokaro	66.5436	Rs. 336227041/- out of which Rs. 189319658.00 for CA Amount.						

2	The state Government shall charge the Net Present Value (NPV) for the 99.7862 ha forest area to be diverted under this proposal from the user Agency as per the order of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA No. 566 In WP (c) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt. II) dated 18/09/2003, as well as letter No. 5-2/2008-FC dated 03/10/2006, 5-3/2007-FC dated 05/02/2009 and letter No. 5-3/2011-FC (Vol-I) dated 06/01/2022 in this regard.	As per demand of DFO, Bokaro letter No. 2036 dated 06.09.2023 Rs. 336227041.00 has been deposited out of which 81754802.00 corresponds to NPV amount deposited on Rs. 05.10.2023 in CAMPA A/c of forest department (Annexure-1 & 2)
3	As recommended by the Regional Empowered Committee, a Wildlife Management Plan and Soil & Moisture Conservation Plan should be prepared by concerned DFO and approved by the PCCF (Wildlife) & Chief Wildlife Warden, Jharkhand for implementing them at project cost. The duly approved Plan should be submitted in IRO, MoEF&CC and Ranchi before issuance of final approval.	As per demand of DFO, Bokaro letter No. 2036 dated 06.09.2023 vide which Rs. 336227041.00 deposited out of which Rs. 52122065.00 for Wildlife Management Plan @ 2% of project cost and Rs. 13030516.00 for Soil & Moisture Conservation Plan @0.5% of project cost deposited on 05.10.2023 in CAMPA A/c of forest department (Annexure- 1, 2 & 3). Rest amount as per approved plan would be deposited as soon as possible.
4	The Committee suggested that the patches left-over in between existing and proposed road, at certain locations, should also be taken up for plantation by SFD at project cost. This cost should also be included in CA levies.	As per demand patches left-over, plantation work in such location identified by SFD during construction stage at project cost is included in CA levies. (Annexure- 1 & 2).
5	All the funds received from the user agency under the Project shall be transferred / deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/)	The demanded fund from Forest Department has been deposited to CAMPA fund through e-portal (https://parivesh.nic.in/) (Annexure- 1).
6	The user Agency should formulate & Implement Soil Moisture Conservation work around the proposed road so that small streams are disturbed due to the Construction of the Highway.	Same will be complied during construction stage of Highway (Annexure- 4).
7	A-Muck-Disposal Plan should be prepared by User Agency to ensure that the muck/ wastage generated should be disposed of in proper manner. Such plan, duly approved by the concerned DFO, should be submitted to this office before soliciting Working Permission.	Muck Disposal Plan has been approved by DFO-Bokaro vide letter No. 2548 dated 22.11.2023. (Annexure- 5).
8	The FRA certification as per Ministry guidelines shall be submitted before the Issuance of final approval. The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector including Gram-Sabha proceedings.	FRA certificate issued by concerned District Collector in prescribed form after Gram-Sabha proceedings is enclosed herewith, details are mentioned below : Bokaro Division :- FRA – Memo no. 296/2023/(well) dt. 24.02.2023. (Annexure- 6).

Handwritten signature

9	The KML files of the forest area to be diverted and the CA area shall be uploaded on the e-Green watch portal with all requisite details and submitting compliance report for seeking Stage-II approval.	Has been uploaded (CD enclosed).
10	Violation of any of these conditions will amount to Violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of Comprehensive of Forest (Conservation) Act, 1980 as issued by this Ministry letter No. 5-2/2017-FC dated 28.03.2019.	It will be ensured by the user agency that there shall be no violation of any of these conditions. (Annexure- 7).
11	The Compliance report shall be uploaded on e-portal (https://parivesh.nic.in/)	It will be ensured by the user agency that compliance report will be uploaded on e-portal (https://parivesh.nic.in/).
D. Conditions which need to be Strictly complied on field after handing over of forest land to the User Agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval :		
1	Legal status of the forest land shall remain unchanged.	Legal status of forest land will not be changed. In this regards undertaking enclosed (Annexure- 8).
2	Compensatory afforestation shall be taken up by the Forest Department over 201.89 ha. degraded forest land (Sites- Mauza-Lawalong, Thana- Gomia/39, Plot No. 254, 1, 18, 343 (Area - 50.50 ha), Mauza- Gomikarmatand, Thana- Gomia/103, Plot No. 467, 126, 240 (Area- 20.13 ha), Mauza- Dania, Thana- Gomia/32, Plot No. 560, 561 (Area- 20.87 ha), Mauza- Kurknalo, Thana- Gomia/94, Plot No. 728, 1236 (Area- 29.32 ha) and Mauza-Khakhhand, Thana - Gomia/38, Plot No. 414, 418 (Area- 13.20 ha) under Bokaro Forest Division, Mauza- Darid, Thana- Peterwar/65, Plot No. 654 (Area- 7.18 ha), Mauza- Dantu, Thana- Kasmar/64, Plot No. 1458 (Area- 2.63 ha), Mauza- Sonhar, Thana- Kasmar/63, Plot No. 275, 252, 480, 497, 340 (Area- 8.70 ha), Mauza- Sonpura, Thana- Kasmar/62, Plot No. 323, 324, 305 (Area- 7.64 ha), Mauza- Kajrum, Thana- Peterwar/68, Plot No. 209 (Area- 5.25 ha), Mauza- Haslata, Thana- Kasmar/69, Plot No. 388 (Area- 6.70 ha), Mauza- Takaha, Thana- Peterwar/27, Plot No. 234 (Area- 4.97 ha) & Mauza- Banda, Thana- Gola/9, Plot No. 1967, 1984, 210 (Area- 15.95 ha) under Ramgarh Forest Division and Mauza- Balu, Thana- Ranchi/29, Plot No. 25 (Area- 9.55 ha) under Ranchi Forest Division) at the cost of the user agency. As far as possible, a mixture of local native species shall be planted and monoculture of any species, especially non-native species should be avoided.	Demand raised by forest department for CA has already deposited in CAMPA A/C on 05.10.2023. In this regards, undertaking is enclosed herewith for deficit amount if any, shall be deposited by the user agency (Annexure- 9).
3	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization, the difference amount will be deposited by this office to

	receipt of the report from the Expert Committee, shall also be charged by the State Government from the User Agency. The User Agency shall furnish an Undertaking to this effect.	the forest department. In this regards, undertaking attached (Annexure- 10).
4	The trees having diameter less than 7 inches shall be translocated as per the set standards of the High-Powered Committee constituted in the State of Jharkhand that governs the tree felling.	In this regards undertaking is being enclosed and it is being ensured that trees having diameter less than 7 inches is being translocated. (Annexure- 11).
5	User Agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision and direction of the State Forest Department; the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.	We are felling only unavoidable trees under supervision of State Forest Department. (Annexure- 12).
6	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.	In this regards undertaking enclosed. (Annexure- 13).
7	The user agency shall provide suitable under passes for animal movement in Forest Area/ Road stretch as per recommendations of concerned DFO.	In this regards undertaking enclosed and some Interim Instruction also provided by DFO-Bokaro vide letter No. 1844 dated 11.08.2023. It will also be a part of wildlife management plan. (Annexure- 14).
8	The NHAI shall provide unrestricted access to Forest Department vehicles for Managing forests & wildlife during project operation phase.	In this regards undertaking enclosed. (Annexure- 15).
9	The User Agency shall raise strip plantation on both sides of the road as per The IRC norms.	In this regards undertaking enclosed. (Annexure- 16).
10	The layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.	In this regards undertaking enclosed. (Annexure- 17).
11	(d) No labor camp shall be established on the forest land. (e) The User Agency shall provide alternate fuels preferably LPG to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas. (f) Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency.	In this regards undertaking enclosed. (Annexure- 18).
12	(d) The period of diversion under this approval shall be co-terminus with the period of the project life. (e) The forest land shall not be used for any purpose other than that specified in the project proposal. (f) The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior Approval of the Ministry of Environment, Forest & Climate Change.	In this regards undertaking enclosed. (Annexure- 19).
13	Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to	In this regards undertaking enclosed. (Annexure- 20).

time in the interest of conservation, Protection and development of forest & wildlife.	
--	--

In view of the above, it is hereby requested to kindly make necessary arrangement for issuance of working permission for the above mentioned subject project at the earliest so that project may be completed on schedule time.

Thanking you,

Encl: As above (8 nos. of copy).

Copy to:
Regional Officer, RO, Ranchi – for kind information please.

Yours faithfully,

R.K. Verma (2023)

(R.K Verma)
Project Director

कार्यालय :- वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल, बोकारो।

BLOCK-A, VAN BHAWAN, PURULIA ROAD, CHAS, BOKARO-827013

E-mail : dfo-bokaro@gov.in & bokarodfo@gmail.com

Phone/Fax No : +91-6542-265142

पत्रांक :- 2036

दिनांक :- 06/09/2023

सेवा में,

Annex-1

परियोजना निदेशक,
राष्ट्रीय राजमार्ग प्राधिकरण,
एन0एच0ए0आई0 कॉम्प्लेक्स, कॉन्ड्रा,
पोस्ट-भीतीया, थाना-गोविन्दपुर, धनबाद-828109
ईमेल-dhan@nhai.org

विषय :- भारतमाला परियोजना (जैनामोड़-गोला-ओरमांझी खण्ड) पथ निर्माण हेतु 99.7862 हे० (बोकारो वन प्रमण्डल अन्तर्गत 66.5436 हे०) वनभूमि अपयोजन प्रस्ताव के संबंध में।

प्रसंग :- (1) भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय एकीकृत क्षेत्रीय कार्यालय, राँची का पत्रांक-FP/JH/Road/146250/2021/1177 दिनांक-13.06.2023
(2) प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची का ज्ञापांक-615 दिनांक-14.06.2023
(3) आपका पत्रांक-467 दिनांक-01.08.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में सूचित करना है कि विषयगत परियोजना में अपयोजित वनभूमि के संबंध में भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय एकीकृत क्षेत्रीय कार्यालय का पत्र सं०-FP/JH/Road/146250/2021/1177 दिनांक-13.06.2023 द्वारा Stage-I की स्वीकृति विभिन्न शर्तों के साथ दी गई है, जिसके आलोक में डिमाण्ड राशि निम्नवत् है :-

1.	शर्त सं०-A(1) के आलोक में विषयगत परियोजना के विरुद्ध बोकारो वन प्रमण्डल अन्तर्गत तेनुघाट वन प्रक्षेत्र में उपलब्ध कराये गये कुल-134 हे० वनभूमि पर क्षतिपूरक वनरोपण का खर्च (प्राक्कलन संलग्न)	8,91,03,533.00
	शर्त सं०-A(1) के आलोक में विषयगत परियोजना के विरुद्ध रामगढ़ वन प्रमण्डल अन्तर्गत पेटरवार वन प्रक्षेत्र में उपलब्ध कराये गये कुल-42.37 हे० वनभूमि पर क्षतिपूरक वनरोपण का खर्च (प्राक्कलन संलग्न)	9,83,07,925.00
2.	शर्त सं०-A(2) के आलोक में बोकारो वन प्रमण्डल में अपयोजित वनभूमि का कुल रकवा-66.5436 हे० का वनस्पति घनत्व-0.5 Eco Class-III के अनुसार नये दर पर प्रति हे० NPV की राशि-12,28,590 X 66.5436 = 8,17,54,802.00	8,17,54,802.00
3.	शर्त सं०-A(3) के आलोक में विषयगत परियोजना का Wildlife Management Plan का खर्च (Interim) Breakup details enclosed	5,21,22,065.00
	शर्त सं०-A(3) के आलोक में विषयगत परियोजना का Soil & Moisture Conservation Plan का खर्च (Interim) Breakup details enclosed	1,30,30,516.00
4.	CA Land में बोकारो वन प्रमण्डल हेतु कुल-241 पीलर @ Rs.4700/- (प्राक्कलन संलग्न)	11,32,700.00
	CA Land में रामगढ़ वन प्रमण्डल हेतु कुल-165 पीलर @ Rs.4700/- (प्राक्कलन संलग्न)	7,75,500.00
कुल राशि :-		33,62,27,041.00

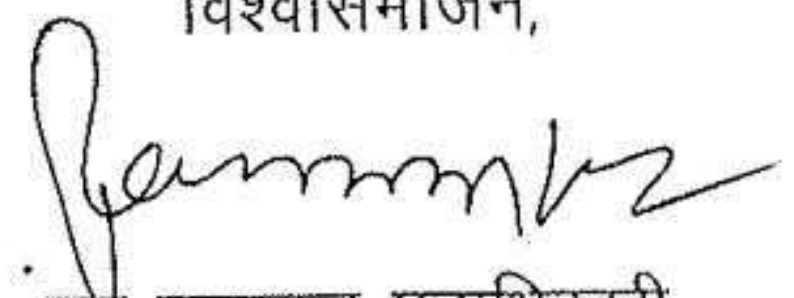
नोट :- Wildlife Management Plan एवं Soil & Moisture Conservation Plan तैयार एवं अनुमोदन किये जाने के पश्चात वांछित Difference Amount प्रयोक्ता अभिकरण द्वारा देय होगी एवं इसके लिए वचनबद्धता भी संलग्न किया जाय।

अतः अनुरोध है कि कुल राशि-33,62,27,041 / - (तीस करोड़ बासठ लाख हजार इकतालीस) रुपये मात्र Stage-I के शर्तों के आलोक में ई-परिवेश पोर्टल के कैम्पा खाता जमा किया जाना है।

विदित हो कि आपके FC Proposal No.- FP/JH/ROAD/146250/2021 के अनुसार Project Cost Rs. 244701.4 Lakh है, जबकि आपने अपने पत्रांक-11015/5/पीडी/डीएचएन/FLT/NH-320/467 दिनांक-01.08.2023 द्वारा डिमाण्ड राशि समर्पित करने का अनुरोध किया है, उसमें संलग्न प्रतिवेदन में Project Cost Rs. 6,47,00,00,000.00 उल्लेखित किया है, जिसके आधार पर Wildlife Management Plan एवं Soil & Moisture Conservation Plan की राशि का डिमाण्ड किया गया है।

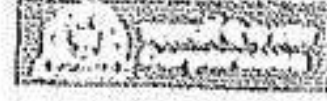
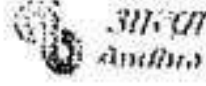
साथ ही भविष्य में राशि में परिवर्तन होने पर अवशेष राशि आपके द्वारा देय होगी। इस संबंध में वचनबद्धता दिया जाय। इसके अलावे Stage-I के सभी शर्तों का अनुपालन करते हुए अनुपालन प्रतिवेदन की हार्ड कॉपी कुल-9 प्रति में शीघ्र समर्पित किया जाय।
अनु0-यथोक्त।

विश्वासभाजन,


वन प्रमण्डल पदाधिकारी,
बोकारो वन प्रमण्डल, बोकारो।
06/09/2023

AGENCY COPY

यूनियन बैंक Union Bank of India



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 30-09-2023

Agency Name.	NHAI, PIU DHANBAD
Application No.	61146250122
MoEF/SG File No.	FP/JH/ROAD/146250/2021
Location.	JHARKHAND
Address.	PIU DHANBAD, NHAI COMPLEX KANDRA, P.O BHITIA, P.S GOVINDPUR, DHANBAD JHARKHAND Dhanbad
Amount(in Rs)	444669861/-

Amount in Words : Forty-Four Crore Forty-Six Lakh Sixty-Nine Thousand Eight Hundred and Sixty-One Rupees Only

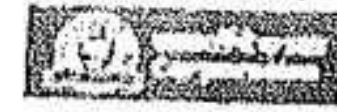
NEFT/RTGS to be made as per following details;

Beneficiary Name:	JHARKHAND CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507261146250122 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY

यूनियन बैंक Union Bank of India



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 30-09-2023

Agency Name.	NHAI, PIU DHANBAD
Application No.	61146250122
MoEF/SG File No.	FP/JH/ROAD/146250/2021
Location.	JHARKHAND
Address:	PIU DHANBAD, NHAI COMPLEX KANDRA, P.O BHITIA, P.S GOVINDPUR, DHANBAD JHARKHAND Dhanbad
Amount(in Rs)	444669861/-

Amount in Words : Forty-Four Crore Forty-Six Lakh Sixty-Nine Thousand Eight Hundred and Sixty-One Rupees Only

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Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank, epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Summary Demands received from Forest Department in Bharatmala Project, Jainamore-Gola-Ormanjhi.

District	CA	NPV	Wildlife & Soil Moisture Plan	DFO Letter no. & date
Bokaro	Rs. 189319658.00	Rs. 81754802.00	Rs. 65152581.00 (Wild life – Rs. 52122065.00 & Soil – 13030516.00)	2036 dt. 06.09.2023
Ramgarh	Rs. 25148300.00	Rs. 35613015.47	Rs. 32235752.00	1988 dt. 27.09.2023
Ranchi	Rs. 5869382.00	Rs. 4076024.34	Rs. 5500346.00	2481 dt. 04.07.2023 (CA&NPV) & 3069 dt. 08.08.2023.
Total :	Rs. 220337340.00	Rs. 121443841.81	Rs. 102888679.00	
Total Demand from Forest Department : Rs. 444669861.00				
Note: Demand verified by Nodal Officer in Parivesh Portal on 29.09.2023. And Amount deposited in Campa A/c on dt. 05.10.2023.				

Online payment history made by User Agency under CAMPA

Help

Sno.	Proposal Detail	Application_No	Application No (New)	Date of IN-PRINCIPLE	Amount to be Paid/Amount Paid (in Rs.)	Payment Status	Payment Detail	Demand Letter
1	SP/JH/ROAD/146250/2021 Diversion of fresh Forest Land for development of Economic Corridors, Inter Corridors, Feeder Routes etc., under Bharatmala Pariyojana of Jaina More-Gola-Omanjhi section in the state of Jharkhand.	ROAD/146250/2021	112261146250122	13 Jun 2023	CA: 220337340/- Addl CA: 0/- PCA: 0/- CAT: 0/- Safety Zone: 0/- Addl PA: 0/- Wild Life Management Plan as well as Soil & Moistu: 121443542/- Other Charges1: 0/- Other Charges2: 0/- Other Charges3: 0/- Total: 444659861/-		Fund Demand Verified by 29 Sep 2023 Nodal Officer On Bank Name Union Bank Of India Mode of Payment NEFT/RTGS (Challan) Challan Generated On 30 Sep 2023 Transaction Date 05 Oct 2023	Demand Letter K:\writers\data\Fundpdf\27092023\1754030930_FPIHRC-D\1462502021_User_Fund_Demanded_9K153.d Generated Challan (UserAccount\Net_Challan.aspx?pd=ROAD\1462502021122)

[\(HTTPS://WWW.PMININDIA.GOV.IN/EN/\)](https://www.pminindia.gov.in/en/)

[GOV \(HTTPS://WWW.MYGOV.IN/\)](https://www.mycgov.in/)

[\(WWW.DIGITALINDIA.GOV.IN\)](https://www.digitalindia.gov.in/)

[MeitY \(HTTP://MEITY.GOV.IN/\)](http://meity.gov.in/)

[\(HTTPS://DATA.GOV.IN/\)](https://data.gov.in/)

Content Owned, Updated and Maintained by Ministry of Environment, Forest and Climate Change, Government of India
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For any Technical support, Please Contact EFCCID, NIC, New Delhi, monitoring-ic(at)nic(dot)in

05-10-2023 16:07:39	05 Oct 2023		National Highway-			
			NEFT Cr-RBI2792317052700-	33		
			RBIS0PFMS01-CS-NHAI-FARO, Ranchi-			
			National Highway-			
05-10-2023 16:32:46	05 Oct 2023	00000000000000	RTGS Dr-CNRER52023100564892301-	5365		44,46,69,861.00
			UBIN0996335-JHARKHAND CAMPA-/			
			URGENT/FAST			

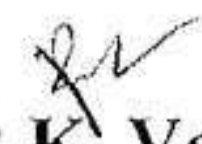
PROFORMA TO BE FURNISHED FOR REMITTANCE OF FUND IN AD-HOC CAMPA (CA LEVIS FORMAT)

Sl. No.	Particulars	
1	Name of the Regional Office	Bokaro
2	State/District/Forest Division to which the proposal related	Bokaro
3	Name of the User agency, nature of the proposal	National Highways Authority of India.
4	Extent of Forest area involved (in Ha.)	66.5436 Ha
5	Whether original, or extension	Original
6	If extension of fence, please clarify if proposal involves additional forest area, and if so, specify	
7	Date of 1st Stage clearance	13.06.2023
8	Extent of CAMPA charges, head wise	
a.	Compensatory Afforestation	Rs. 189319658.00
	DFO, Bokaro	
b.	Penal CA	0
c.	Catchment Area Treatment	0
d.	Wildlife Management Plan and Soil & Moisture Conservation Plan :-	
d(i)	Wildlife Management Plan @ 2% of project cost	Rs. 52122065.00
d(ii)	Soil & Moisture Conservation Plan @ 0.5% of project cost	Rs. 13030516.00
e.	Additional Charges for diversion area falling under notified Protected area (i.e. block plantation 5 times of tree to be felled)	
f.	Net present Value	Rs. 81754802.00
	DFO, Bokaro	
g.	Any other Charges/Levies (PL Specify)	
h.	Lease transfer fee	
9	Details of bank Draft (Bank Draft No. date and amount), head wise against items indicated in the paragraph 9 above.	
10	Whether deposited by RTGS, if so, the particulars and date of remittance	Amount deposited on dated 05.10.2023 by NHAI through RTGS to Jharkhand CAMPA bank Union Bank of India A/c no. 1507261146250122 as per generated challan from parivesh portal (Challan application no. 61146250122 dt. 30.09.2023), RTGS ref. no. CNRBR52023100564892301. Copy of Challan attached herewith for your further reference please.
11	Bank (corporation Bank, Lohi Complex/Union bank of India, Sunder Nagar) in which Deposited, with Deposite, with date of Deposition	As per challan Bank name & Address is Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027.
12	Any other remarks.	

Annex-2

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 3 of Para-A of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/146250/2021/1177 dated 13.06.2023 on behalf of National Highways Authority of India (Jainamore-Gola-Ormanjhi Section) Phase-I under Bharatmala Project. I hereby undertake to confirm that "Wildlife Management Plan" and "Soil & Moisture Conservation Plan" shall be prepared and implemented at the cost of the NHAI.


(R.K. Verma)

**Project Director (PKG-I)
NHAI, PIU-Dhanbad.**

Project Director
NHAI, PIU
Dhanbad

ANNEXURE - 4

UNDERTAKING IN REFERENCE TO SECTION-A, PARA 06 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes to formulate & implement Soil Moisture Conservation work around the proposed road as per requirement during the construction stage. So, that small streams are disturbed due to the construction of the highway.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.



कार्यालय :- वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल, बोकारो।

BLOCK-A, VAN BHAWAN, PURULIA ROAD, CHAS, BOKARO-827013

E-mail : dfo-bokaro@gov.in & bokaradfo@gmail.com

Phone/Fax No : +91-6542-265142

पत्रांक :- 2548

दिनांक :- 22.11.2023

सेवा में,

Annex-5

वन संरक्षक,
प्रादेशिक अंचल, बोकारो।

विषय :-

In-principle (Stage-I) approval of Central Government under Forest (Conservation) Act 1980 for diversion of 99.7862 ha (Bokaro FD-66.5436 ha, Ramgarh FD-28.9869 ha & Ranchi FD-4.2557 ha) of forest land in favour of NHAI, PIU Dhanbad for construction of Road from Jaina More to Gola (NH-23) & Gola to Ormanjhi (NH-320B) section under Bharatmala Pariyojana in Bokaro, Ramgarh & Ranchi district of Jharkhand में बिन्दु सं०-7 शर्त के अनुपालन के संबंध में।

प्रसंग :-

प्रयोक्ता अभिकरण का पत्रांक-946/दिनांक-18.11.2023 तथा इस कार्यालय का पत्रांक-2422 दिनांक-01.11.2023 एवं पत्रांक-2364 दिनांक-25.10.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि भारत सरकार के पत्रांक-FP/JH/Road/146250/2021/1177 दिनांक-13.06.2023 के द्वारा उपर्युक्त पथ हेतु स्टेज-I की स्वीकृति प्रदान की गई है। स्टेज-I में लगाये गये शर्त संख्या-7 निम्नवत् है :-

"A Muck-Disposal Plan should be prepared by User Agency to ensure that the muck/wastage generated should be disposed of in proper manner. Such plan, Duly approved by the concerned DFO, should be submitted to this office before soliciting working permission."

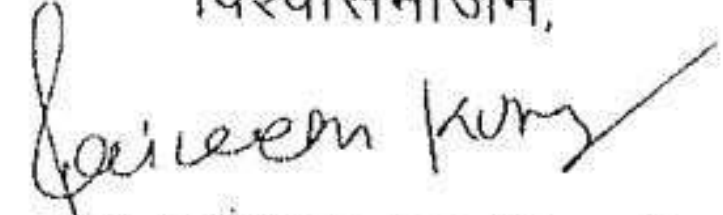
प्रयोक्ता अभिकरण द्वारा पूर्व में Muck Disposal Plan समर्पित किया गया था। जिसमें कई बिन्दुओं पर इस कार्यालय के पत्रांक-2422 दिनांक-01.11.2023 के द्वारा पृच्छा की गई। जिसमें मुख्य बिन्दु यह थे कि Muck Disposal Plan में कितने क्यूबिक मीटर Muck generate हो रहा है एवं किस-किस किलोमीटर में कितना हो रहा है। पूर्व के Plan में Sewall factor शामिल नहीं किया गया था। उनके debris का प्रयोग कहाँ-कहाँ किया जाना था और Top fertile soil का प्रयोग कहाँ किया जा रहा है का भी जिक्र नहीं था। उसमें Segregation, Compaction, Transportation इत्यादि का भी विवरणी संलग्न नहीं था। बचे हुए Balance Debris का प्रयोग कैसे करना था उसके संबंध में भी पृच्छा की गई। प्रयोक्ता अभिकरण ने इस कार्यालय द्वारा की गई पृच्छा का बिन्दुवार प्रतिवेदन तथा Revised Muck Disposal Plan पत्रांक-946/दिनांक-18.11.2023 के द्वारा समर्पित किया गया है। जिसमें Muck generation एवं उसके utilization को शामिल कर लिया गया है। उनके द्वारा यह बताया गया है कि यह प्रोजेक्ट का Payment Milestone Basis पे किया जाना है, जिसमें Segregation, Compaction, Transportation इत्यादि का कार्य किया जायेगा। लेकिन अलग से दर देना संभव नहीं हो पा रहा है। प्रयोक्ता अभिकरण के द्वारा Balance Debris को हटाने की जानकारी और Revised Muck Disposal Plan के पेज संख्या-4, 5 में संलग्न कर समर्पित किया गया है। प्रयोक्ता अभिकरण ने यह भी सूचित किया है कि विभिन्न DFO के कार्य क्षेत्र के अन्तर्गत पड़ने वाले क्षेत्र के अनुसार Muck Disposal Plan बनाया गया है। प्रयोक्ता अभिकरण के द्वारा यह भी Undertaking दिया है कि Muck Disposal Plan के अनुमोदन के उपरांत Muck Disposal Plan के

<https://dfo.bokaro.gov.in/29c2a8a6b3f85ad/Desktop/Muck Disposal Plan updated.docx>

अनुसार कार्य किया जायेगा। इस प्रकार प्रयोक्ता अधिकरण द्वारा समर्पित Muck Disposal Plan से अद्योहताक्षरी सहमत है।

अतः अनुरोध है कि शर्त संख्या-7 के अनुमालन हेतु अग्रेतर कार्रवाई करने की कृपा की जाय।

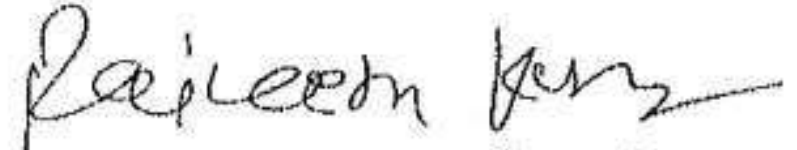
विश्वासभाजन,



वन प्रमण्डल पदाधिकारी,
बोकारो वन प्रमण्डल, बोकारो।

ज्ञापांक: 2548 / दिनांक- 22.11.2023

प्रतिलिपि:-परियोजना निदेशक, राष्ट्रीय राजमार्ग प्राधिकरण, एन0एच0ए0आई0 कॉम्प्लेक्स, कान्हा, पोस्ट-भीतिया, थाना-गोबिन्दपुर, धनबाद-818109 को सूचनार्थ एवं आवश्यक कार्रवाई हेतु समर्पित।



वन प्रमण्डल पदाधिकारी,
बोकारो वन प्रमण्डल, बोकारो।



ENGINEERING PVT. LTD.

TPF ENGINEERING PVT. LTD.

IN ASSOCIATION WITH

ROTRANS INFRAPROJECTS PRIVATE LIMITED

TPFEPL-Rotrans/SO/NHAI-27/BOKARO-GOLA-NH-320/2023-24/1191/225



Date: 18-11-2023

सेवा में

परियोजना निदेशक

पीआईयू, धनबाद, एनएचएआई

एनएचएआई कॉम्प्लेक्स, कंदरा, भितिया,

गोविंदपुर, धनबाद - 828109

Email-dhan@nhai.org, nhaidhanbad@yahoo.in

विषय: भारतमाला परियोजना के अंतर्गत एनएच-320 (जैनमोड़-गोला खंड पीकेजी-01) के चौड़ीकरण/चार लेन के निर्माण हेतु बोकारो वन प्रमंडल अंतर्गत समर्पित- संशोधित समीक्षा Muck disposal Plan बोकारो जिला- संबद्ध में

Ref:

1. Concessioner Agreement dated 31.05.2022
2. 11015/SPD/DHN/FLT/NH-320/519 Dated-09.08.2023
3. 11015/SPD/DHN/FLT/NH-320/898 Dated-02.11.2023
4. BHPL/NHAI/GOLA/NH-320/493, dated: 18/11/2023

महोदय,

1. उपर्युक्त विषय के संबंध में अवगत कराना है कि वन विभाग कार्यालय द्वारा प्रेषित Muck Disposal Plan को आपके जैचोंपरांत कुछ त्रुटियाँ पायी गयी जिसका निवारण कर Concessionaire ने पत्र संख्या BHPL/NHAI/GOLA/NH-320/493, dated: 18/11/2023 आवश्यक कार्यवाही हेतु प्रेषित किया जा रहा है

जिसका विवरण निम्नवत है:-

1. आपको पत्रांक के बिन्दु संख्या 1,2,3 एवं 4 को संशोधित Muck Disposal Plan में संग्रहीत किया गया है।
2. आपको पत्रांक के बिन्दु संख्या 5 के आलोक में कहना है कि यह परियोजना HAM mode में है, जिसका payment milestone basis के आधार पर किया जाता है। अतः, इस कारण से Segregation, Compaction and Transportation इत्यादि के दर अलग से दिया जाना संभव प्रतीत नहीं होता है।
3. आपको पत्रांक के बिन्दु संख्या 6 के आलोक में अवगत कराना है कि balance debris हटाने के प्रबंधन हेतु Revised Muck Disposal Plan के पेज संख्या 4 में विवरणी दी गयी है।
4. आपको पत्रांक के बिन्दु संख्या 7 के आलोक में अवगत कराना है कि In-principle (Stage-1) approval के पत्रांक संख्या FP/JH/Road/146250/2020-21/1177, दिनांक-12.06.2023 के बिन्दु संख्या 7 में निर्देशित है कि Muck Plan का Approval concerned dfo से ही कराना होगा। ऐसी स्थिति में अलग-अलग Muck Disposal Plan बनाया गया है।

MEMBER OF

INDIAN ROAD CONSTRUCTION SOCIETY

संस्थापक सदस्य

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info@tpfepl.com www.tpfepl.com www.apl.eu



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5. आपको पत्रांक के बिन्दु संख्या 8 एवं 9 के द्वारा मांगी गयी Undertaking Muck Disposal Plan में संग्रहीत किया गया है।



(राजेंद्र नारायण)

टीम लीडर

टीपीएफ इंजीनियरिंग प्रा. रोट्रांस इन्फ्रा प्रोजेक्ट्स प्राइवेट लिमिटेड के सहयोग से। लिमिटेड

Encl: as above

Copy to

1. एच ओ-टीपीएफ इंजीनियरिंग प्राइवेट लिमिटेड



BOKARO HIGHWAY PRIVATE LIMITED

CIN : U45309GJ2022PTC131980

BHPL Reference: - BHPL/NHAI/GOLA/NH-320/493

Date: 18-11-2023

To,
The Team Leader,
TPFEPL in association with Rotrans Infra Pvt. Ltd.
C/o Rajendra Prasad, Mohanpur site, Po-
Jainamore, Ps-Jaridih, Beside Singh Timber,
Opposite of Shiv Mandir Dist-Bokaro (JH), Pin
code 829301. Email : ie.jhpkg1@gmail.com
Mobile : +91 8825126879

Subject : Four Laning with paved shoulder of section Km 21.110 (Bokaro (Jaina
More) on NH -320 to Km 53.600 (Gola on NH-320) in the state of
Jharkhand on Hybrid Annuity mode – **Muck-Disposal Plan**

- Reference
1. NHAI Letter No. 11015/5/PD/DHN/FLT/NH-320/519 Dt: 09.08.2023
 2. BHPL/NHAI/GOLA/NH-320/389 Dt: 07.10.2023
 3. TPFEPL/Bokaro-Gola-NH-320/2023-24/1191/179 Dt 10.10.2023
 4. NHAI Letter No. 11015/5/PD/DHN/FLT/NH-320/898 Dt: 03.11.2023
 5. TPFEPL/Bokaro-Gola-NH-320/2023-24/1191/223 Dt 17.11.2023

Respected Sir,
With reference to the above cited subject, we have been already submitted a Muck-
Disposal Plan for both district (Ramgarh & Bokaro) vide Letter reference (2) for the
compliance of in-principle condition Section-A (7) for your further process and once
again we hereby attached Muck disposal Plan for both district for your reference please.

Thanking you and assuring our best service always.

For, Bokaro Highway Private Limited


Gopalsinh Narayansinh Rathod
Director

Encl. : Muck-Disposal Plan

Copy to : The Project Director, NHAI, Dhanbad for information only

MUCK DISPOSAL PLAN BOKARO DISTRICT

Project name: - "Four laning with paved shoulder of section from Km 21.110 (Jaina More on NH-320) to Km 44.275 (Chargi on NH-320) in the State of Jharkhand on Hybrid Annuity Mode"

Client Name: - National Highway authority of India

Concessionaire: - M/S Bokaro Highway Private Limited

Independent Engineer: - M/S TPF Engineering Pvt. Ltd. In Association with ROTRANS
INFRAPROJECTS PRIVATE LIMITED

N.G. PROJECTS LIMITED
Authorised Signatory

Project Director
NIAL PU
Dhanbad

Name:- Rajendran Nair
Designation:- Team Leader
IPFEP, in Association with
Infraprojects Private Ltd.
Jharkhand, Bokaro Phase-1

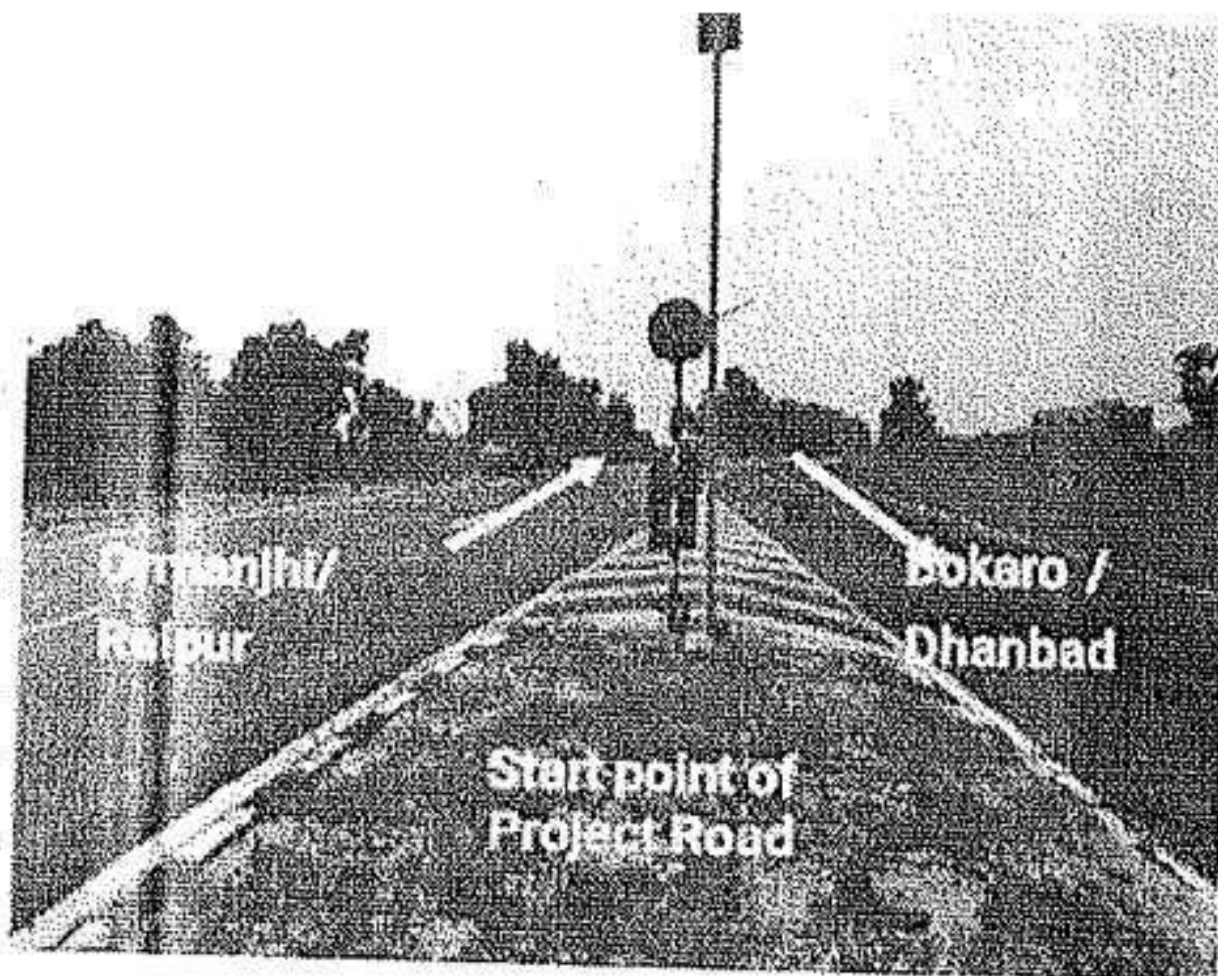
MUCK DISPOSAL PLAN

GENERAL

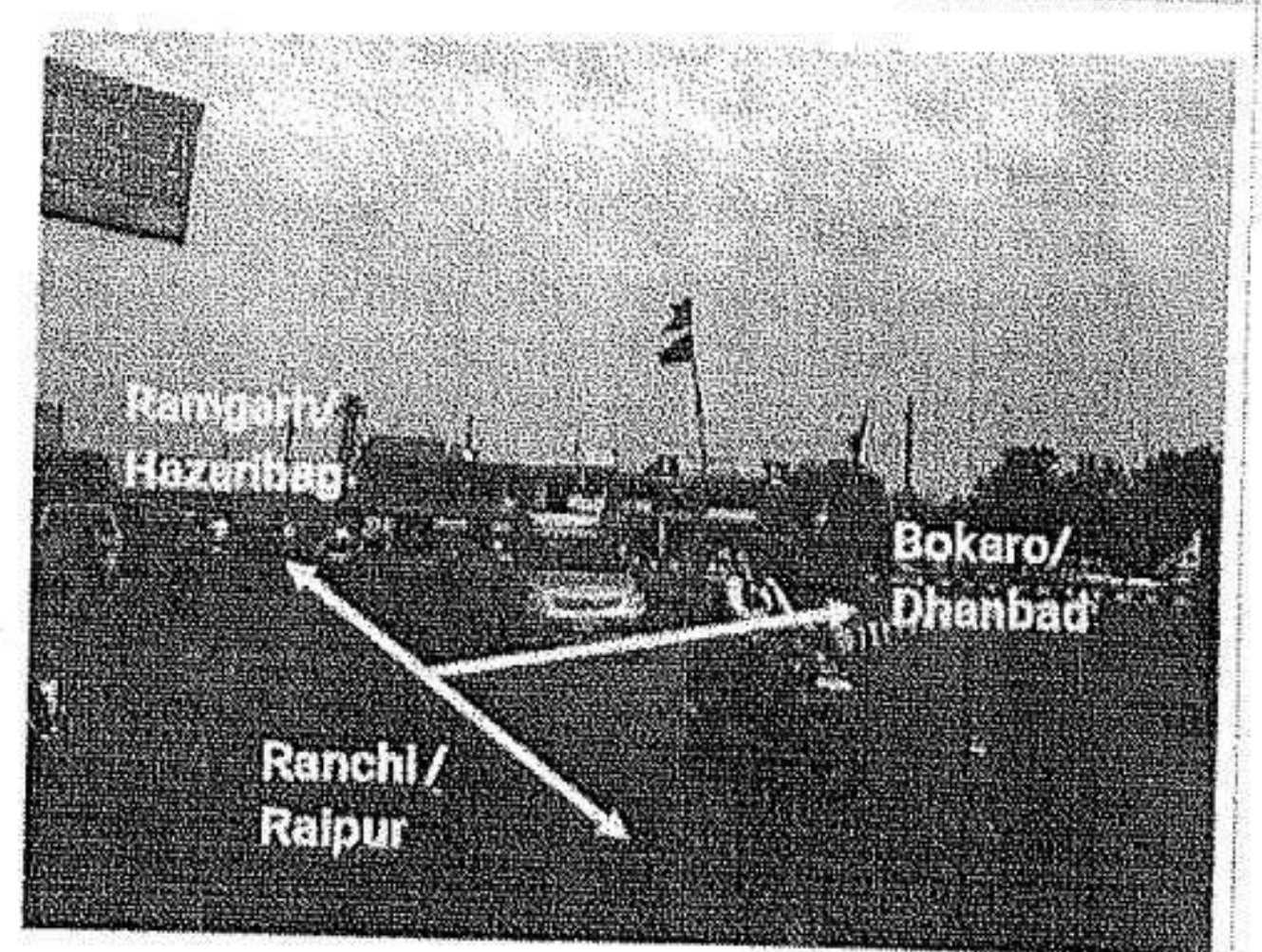
The National Highways Authority of India (NHAI) is responsible for execution and maintenance of National Highway on behalf of the Ministry of Road Transport & Highways, Government of India (MoRT&H).

The Ministry of Road Transport & Highways, Government of India has entrusted the National Highways Authority of India (NHAI) for the work of Development of Economic Corridors, Inter corridors and feeder route to improve the efficiency of freight movement in India of NH 320 (old NH 23) from Km 21.110 (Jaina more on NH-320) to Km 44.275 (Chargi on NH-320) in the State of Jharkhand on hybrid Annuity Mode.

Photographs of start and end point of the project road are as follows:

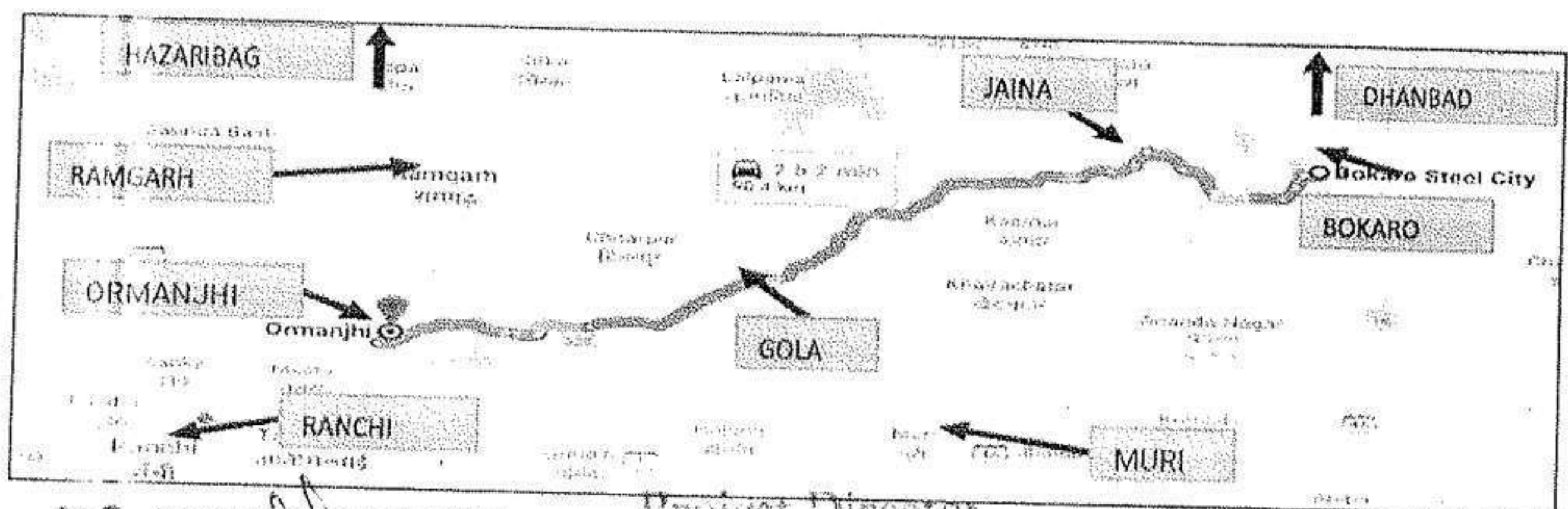


Start Point of Project Road at Jaina (Bokaro)



End Point of project road at Ormanjhi (Ranchi)

Importance of the Project Road



N.G. PROJECTS LIMITED

Authorised Signatory

Project Director
NHAI PIU
Dhanbad

Name: Rajendran N
Designation: Team Le
Associate
Bokaro

A direct connection between Dhanbad to Raipur avoiding Ramgarh is considered in this part of Economic Corridor of Bharatmala Pariyojana. To connect Dhanbad and Raipur the alignment is proposed from Dhanbad to Bokaro through NH-18 (Old NH-32) thence to Balidih, Siwandih, Jaina, Petarwar, Gola through NH-320 (Old NH-23) thence to Koilya, Bariatu, Kulhi, Charo, Id More thorough MDR 101 thence to Sandi, Dardag, Ormanjhi through MDR 105 & thence intersecting with NH-20 (Old NH 33) at Ormanjhi block chowk to reach Ranchi. Thereafter it follows the available route to Raipur through Gumla, Pathalgaon, etc.

The National Highway Authority of India proposed to develop existing NHAI Road originating at Gola connecting with NH-320 Km 21.110 and ending at Chargi, Km 44.275 Pakage-1 a fully modern system for safe and efficient movement of traffic in the state of Jharkhand. The construction package for the project includes developing the existing two lane carriageway to four lane carriageway including service road in majority of stretches with green field corridor.

The project road from Jaina more to Gola to Ormanjhi is located on East-West direction. The horizontal alignment of existing road stretch is passing through several congested settlements/ habitation areas with presence of sharp and reverse curves, where the geometric improvement is required. Horizontal alignment of the proposed road has been designed based on the latest NHAI Office Memorandum no. NHAI/Bharatmala/EC/DPR/2016 dated 14.05.2018 and 03.01.2018 prescribed for Economic Corridor. The design has been carried out to provide seamless freight movement between origin and destinations. Geometric Improvement has been done at sharp / reverse curve locations as per recommended design speed. The details of Geometric improvement done along the proposed alignment are presented below in Table No. 1.

Table No.- 1
(Horizontal Curve Details of Proposed Alignment)

Sl. No.	Design Chainage (km)	Radius (m)	Design Speed (kmph)
1	21664.41	500	100
2	22856.96	700	100
3	25535.76	1800	100
4	29415.96	1200	100
5	29781.08	1200	100
6	31916.38	700	100

N.G. PROJECTS LIMITED

Authorised Signatory

Project Director
NHAI PIU
Dhanbad

Name: Rajenderan Nair
Designated as Team Lead
IPFET at coordination w
Bokaro

7	32394.4	735	100
8	36541.87	6000	100
9	38222.81	15000	100
10	42031.5	800	100

The Project Stretch of NH-320 from Km 21.110 to Km 44.275 has flexible pavement. The existing 2-lane carriageway will be constructed newly with requisite connection of existing road as service road. The new four-lane will be constructed completely in modified Alignment includes green field area. There are three Bypass Dantu & chopadaru. The service road LVUP, SVUP, VUP, Major Junction, Minor junctions are provided through project Alignment in requisite areas to facilitate the local traffic.

NHAI is committed to offset this loss of trees by replacing the felled trees by planting at least Five times the number as per recommendation of High Power committee. Not only had this, following the approach of "Corridor Development & Management" rather than "Highway Development"; NHAI planned to enhance the aesthetics of the highway corridor from all possible angles. Highways are not being looked upon merely as a means of transportation, but an integral part and parcel of the physical environment and Socio-economic milieu.

While Bharatmala Pariyojna Project from Jaina More (NH-320) to Chargi (NH-320) formulated project specific strategies for plantation of trees along the highway guidelines for median and avenue plantation for the whole corporate were prepared in order to ensure uniformity of operations.

The followings points will be taken care while handling Muck.

- ❖ Keep the objective in view that soil from excavation should be put to best possible use in fill area unless the material is declared unfit. Where different grade of materials are met with proper arrangement of operations is planned in such a way that the best material is reserved for use in the Embankment up to desired height as well as top 0.5m subgrade.
- ❖ Excavated materials usable in pavement constructions shall be stacked at convenient locations and proper records are kept.

N.G. PROJECTS LIMITED

Authorised Signatory

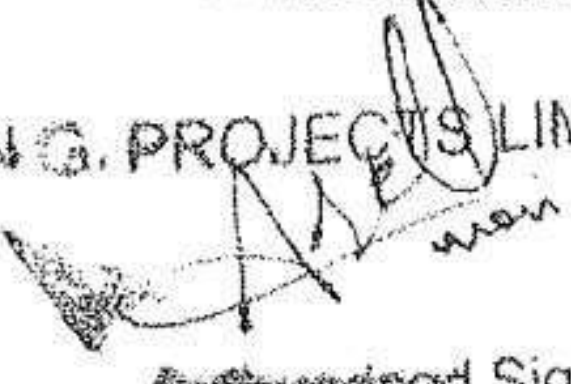
Project Director
NHAI, PIU
Dhambad

Signature
Name
Designation
Team Leader
with one with

- ❖ Unsuitable materials (Existing Road Dismantle Material) will be utilized for making approach road /haul road, worker camp / Construction camp where it cannot get easily washed away by rain.
- ❖ As per assumption, minority of soil to be obtain from excavation, is suitable material and shall be used as per project requirement meeting with technical specification. Only top soil which is generally fertile soil, shall be used in median/divider of carriageway, slope portion of road for vegetation purpose and this will helps us to protect erosion; so that this material shall be stored in such a manner to full-fill project requirement all along.
- ❖ It will be ensured that necessary measures are taken to prevent soil erosion, blockage of streams and water pollutions.
- ❖ A close watch on the cut slopes and excavated areas will be done to see whether these require any protection/drainage measures for suitability/performance.
- ❖ We will make it sure about the classification of excavated materials. Where additional pavement is involved, ensure proper measurements, record and evidence, etc.
- ❖ Check the finished cut surface for levels and slopes regularly.
- ❖ Have the top soil (removed earlier and conserved) applied on to cut slopes, median, berms and other disturbed areas. Have these areas sodded or seeded to protect against erosion.

ENGINEERING MEASURES

- ❖ Retaining Wall/RE-Wall – usable material shall be spread and rolled behind retaining wall/RE-wall is proposed to be built up at various location of project Alignment. In addition, compaction would also be done after dumping the material on every cycle and simultaneously improving the drainage of the disposal site. All the approach roads to various project structures will be constructed by employing the methodology recommended by National Highway with minimal environmental damage. The methodology consists in developing the formation width is half cutting and half filling, so that the materials obtained from cutting are utilized in filling. The excavation on hill side will be done to get a stable slope for the materials encountered. At places suitable measures like breast-wall/Toe-wall shall be done in natural slope to retain filled material, particularly where there is problem of retaining the hill slope.
- ❖ To minimize the environmental damage, construction material like stones, dusts, etc., required for the construction of road will be obtained mostly from the excavated material.

H.G. PROJECTS LIMITED

 Authorized Signatory

Project Director
 NHAI PIU
 Dhaubad



**Cutting Quantity Calculation details of forest area involve in
Project alignment for Bokaro District**

<u>Chainage</u>	<u>Length</u>	<u>width</u>	<u>Depth</u>	<u>Cut Volume (Cu.m.)</u>	<u>Remarks</u>
25+760.000	10	45	0.0128	5.76	
25+770.000	10	42	0.0116	4.89	
25+780.000	10	46	0.0555	25.53	
25+790.000	10	46	0.0895	41.16	
25+800.000	10	46	0.0613	28.21	
25+810.000	10	46	0.0273	12.57	
25+820.000	10	46	0.0843	38.77	
25+830.000	10	46	0.3487	160.38	
25+840.000	10	46	0.8530	392.4	
25+850.000	10	55	1.2234	672.85	
25+860.000	10	55	1.8793	1033.61	
25+870.000	10	55	2.5525	1403.88	
25+880.000	10	55	2.9499	1622.43	
25+890.000	10	55	3.2590	1792.46	
25+900.000	10	55	3.6118	1986.5	
25+910.000	10	55	4.0234	2212.87	
25+920.000	10	55	4.5932	2526.26	
25+930.000	10	55	5.2233	2872.83	
25+940.000	10	55	6.0978	3353.78	
25+950.000	10	55	7.2758	4001.7	
25+960.000	10	55	8.1779	4497.87	
25+970.000	10	55	8.4499	4647.43	
25+980.000	10	55	8.3072	4568.96	
25+990.000	10	55	8.1890	4503.96	
26+000.000	10	55	8.1460	4480.29	
26+010.000	10	55	8.0919	4450.54	
26+020.000	10	55	8.0647	4435.57	
26+030.000	10	55	7.8560	4320.81	
26+040.000	10	55	7.4420	4093.08	
26+050.000	10	55	6.6475	3656.15	
26+060.000	10	55	6.0636	3334.98	
26+070.000	10	55	5.8277	3205.24	
26+080.000	10	55	5.4652	3005.85	
26+090.000	10	55	5.2454	2884.97	
26+100.000	10	55	5.0761	2791.87	
26+110.000	10	55	4.9506	2722.85	
26+120.000	10	56	5.2732	2952.97	
26+130.000	10	56	5.9059	3307.33	
26+140.000	10	56	6.1350	3435.6	
26+150.000	10	56	6.3899	3578.37	
26+160.000	10	56	6.9565	3895.65	

N.G. PROJECTS LIMITED

Authorised Signatory

Project Director
NHAI, PIU
Dhanbad

Name:- Rajendran N
Designation:- Team Le-
IPFEPL is Association
Bokaro District

- * In the streams, cross-drainage structure will be provided to prevent the erosion of nala bed.
- * In addition, stone/concrete work on the downstream area will also be provided at vulnerable places to minimize erosion

MUCK DISPOSAL QUANTITY-

The total excavation quantity likely to be generated from the road way in forest area will be around 503413.00 cum, out of which around 291601.00 cum material expecting suitable material for embankment, will be used in filling of road way in project alignment. Approx. 211812.00 cum excavated material may be rock which is also to be used as aggregate after crushing the same if it is found suitable and meet technical specifications.

Table: Calculation of Muck to be disposed.

Sl. No.	Descriptions	Quantity (cum)
1	Total Excavation	503413.00
2	Reusable Quantity (for use as Roadways filling & pavement Construction)	503413.00
3	Total muck to be disposed	0

Table: Details of Muck Disposal Areas (Non Forest area)

Total Earth work Filling Quantity								
Sl. No.	Chainage		Length	Avg. Width	Avg. Depth	Quantity in cum	Remarks	Per Day Consumption in Cum
	From	To						
1	21120	44275	23155	45	1.30	1354568	Filling Qty. Including forest & Non Forest Area	
					Total Qty	1354568		
1	22860	24700	1840	45	1.7711	146647	MAIN CARRIAGEWAY Filling	3500
2	29000	30000	1000	35	0.15514	5430		
3	30300	33100	2800	45	1.10733	139524		
4	21120	44275	23155	23	0.39772	211812	Rock quantity (crushed material usable in pavement crust)	2500
					Total Qty	503413		

*Note: Balance Quantity 851155 Cum of filling shall be used with Pond Ash from BTPS/CTPS.

NG PROJECTS LIMITED

Project Director

NH&M, PIU

Dhankot

Authorised Signatory

Signature of Project Director
Designation: Team Lead
IPR/CTPS/CTPS
Date: 10/08/2023

Rock quantity (crushed material usable in pavement crust)						
Sl. No.	Chainage		Length	Width	Depth	Quantity in cum
	From	To				
1	21120	44275	23155	23	0.39772	211812

Note: Per Quantity Consumption = 3000 cum per day for Rock crushing Materials

Engineering Measures:

The total quantity calculation details

Sl. No.	Chainage		Quantity in cum
	From	To	
1	21+120	24+800	0.00
2	24+800	44+275	503413.00

*Following Points will be taken care while Execution of Cutting & Filling works at site.

- Cutting soil shall be used immediately in nearest embankment filling area, and same quantity shall be utilized and no muck disposal shall be required. If required to store the materials only one day storage will be required and next day shall be dispatch.
- Rock cutting in the forest area shall be crush with mobile crusher within ROW area, and same materials shall be utilized for Granular filling in the nearest Highway.
- No any forest area will be utilized for any kind of storage, storage area will be located in the non-forest area.
- Swell factor calculation will be not applicable in the above said (HAM) project because, there is Nil Muck generate.

532565

NG PROJECTS LIMITED

Authorized Signator

Project Director
NHA, P.L.
Bharat

TO: Mr. [Name]
From: [Name]
Date: [Date]
Subject: [Subject]

[Handwritten signature]

26+680.000	10	42	0.0015	0.65
26+690.000	10	42	0.0063	2.65
26+700.000	10	42	0.0478	20.07
26+710.000	10	42	0.3634	152.61
26+720.000	10	42	0.7955	334.12
26+730.000	10	42	1.1892	499.46
26+740.000	10	42	1.5755	661.72
26+750.000	10	48	1.8612	893.38
26+760.000	10	48	2.6381	1266.31
26+770.000	10	48	3.7671	1808.2
26+780.000	10	48	4.5720	2194.57
26+790.000	10	48	4.4455	2133.86
26+800.000	10	48	4.0177	1928.5
26+810.000	10	48	3.6064	1731.08
26+820.000	10	48	3.2089	1540.28
26+830.000	10	48	3.1002	1488.11
26+840.000	10	48	3.1373	1505.89
26+850.000	10	48	2.7024	1297.17
26+860.000	10	48	2.0424	980.36
26+870.000	10	48	1.5731	755.07
26+880.000	10	48	1.2243	587.66
26+890.000	10	50	0.9134	456.71
26+900.000	10	50	0.6704	335.18
26+910.000	10	50	0.3973	198.63
26+920.000	10	50	0.1596	79.79
26+930.000	10	50	0.0646	32.31
26+940.000	10	46	0.1066	49.05
26+950.000	10	46	0.4184	192.47
26+960.000	10	46	0.7907	363.73
26+970.000	10	46	0.8791	404.38
26+980.000	10	46	0.7327	337.04
26+990.000	10	46	0.3090	142.15
27+000.000	10	46	0.0074	3.4
27+010.000	10	46	0.0002	0.09
27+020.000	10	46	0.0000	0
27+030.000	10	46	0.0018	0.83
27+040.000	10	46	0.0018	0.83
27+050.000	10	46	0.0000	0
27+060.000	10	46	0.0000	0.02
27+070.000	10	46	0.0146	6.7
27+080.000	10	46	0.2246	103.32
27+090.000	10	46	0.9692	445.84
27+100.000	10	46	2.0705	952.42
27+110.000	10	52	2.6173	1360.99
27+120.000	10	52	3.3464	1740.14
27+130.000	10	52	4.1321	2148.7
27+140.000	10	52	4.8909	2543.25
27+150.000	10	52	5.6258	2925.41
27+160.000	10	52	6.2274	3238.27
27+170.000	10	52	6.8706	3572.7
27+180.000	10	52	7.2937	3766.74

NG PROJECTS LIMITED

Authorised Signatory

Project Director

NIPAL PU

Dharwad

Name:- Rajendram N
Designation:- Team
IPFEP in Associa
strong India Pro
nations

27+190.000	10	52	7.0641	3673.33
27+200.000	10	52	6.8455	3559.64
27+210.000	10	52	6.7560	3513.13
27+220.000	10	52	6.8744	3574.7
27+230.000	10	52	6.8611	3567.77
27+240.000	10	52	6.3902	3322.88
27+250.000	10	52	5.9408	3089.23
27+260.000	10	52	5.2045	2706.36
27+270.000	10	52	4.1592	2162.8
27+280.000	10	52	3.2761	1703.56
27+290.000	10	52	2.4653	1281.94
27+300.000	10	52	1.8244	948.7
27+310.000	10	46	1.2999	597.95
27+320.000	10	46	0.5308	244.16
36+250.000	10	46	0.0000	0
36+260.000	10	46	0.0070	3.23
36+270.000	10	46	0.0152	7
36+280.000	10	46	0.0323	14.88
36+290.000	10	46	0.1408	64.77
36+300.000	10	46	0.3718	171.01
36+310.000	10	46	0.7034	323.55
36+320.000	10	46	1.0789	496.31
36+330.000	10	46	1.4933	686.91
36+340.000	10	46	1.8575	854.46
36+350.000	10	46	2.0561	945.81
36+360.000	10	46	2.1334	981.35
36+370.000	10	46	2.1967	1010.5
36+380.000	10	46	2.4185	1112.52
36+390.000	10	46	2.4244	1115.22
36+400.000	10	46	1.9405	892.63
36+410.000	10	46	1.4208	653.58
36+420.000	10	46	0.9562	439.85
36+430.000	10	46	0.5613	258.18
36+440.000	10	46	0.3608	165.99
36+450.000	10	46	0.1989	91.5
36+460.000	10	46	0.0943	43.39
36+470.000	10	46	0.0850	39.12
36+480.000	10	46	0.1002	46.11
36+490.000	10	46	0.1269	58.39
36+500.000	10	46	0.1722	79.22
36+510.000	10	46	0.2060	94.75
36+520.000	10	46	0.2096	96.42
36+530.000	10	46	0.2018	92.81
36+540.000	10	46	0.1659	76.33
36+550.000	10	46	0.1295	59.57
36+560.000	10	46	0.1110	51.05
36+570.000	10	46	0.0986	45.36
36+580.000	10	46	0.0633	29.1
36+590.000	10	46	0.0181	8.33
36+600.000	10	46	0.0063	2.91
36+610.000	10	46	0.0000	1.47

[Handwritten signature]
Project Director

Project Director
NHAI, MU
Dhanbad

[Handwritten signature]
Team Leader
NHAI, MU
Dhanbad

36+620.000	10	46	0.0002	0.08
36+630.000	10	46	0.0000	0
36+640.000	10	46	0.0000	0
36+650.000	10	46	0.0000	0
36+660.000	10	46	0.0067	3.1
36+670.000	10	46	0.0261	12.02
36+680.000	10	46	0.0619	28.48
36+690.000	10	46	0.1115	51.28
36+700.000	10	46	0.1949	89.65
36+710.000	10	46	0.3618	166.45
36+720.000	10	46	0.5607	257.93
36+730.000	10	46	0.7114	327.25
36+740.000	10	46	0.8901	409.46
36+750.000	10	46	1.3507	621.3
36+760.000	10	50	1.6960	847.98
36+770.000	10	50	1.9056	952.79
36+780.000	10	50	2.0130	1006.49
36+790.000	10	50	2.1659	1082.96
36+800.000	10	50	2.3581	1179.05
36+810.000	10	50	2.4517	1225.85
36+820.000	10	50	2.4857	1242.87
36+830.000	10	50	2.5323	1266.16
36+840.000	10	50	2.5849	1292.43
36+850.000	10	50	2.5463	1273.15
36+860.000	10	50	2.4088	1204.38
36+870.000	10	50	2.2854	1142.7
36+880.000	10	50	2.1881	1094.04
36+890.000	10	50	2.1869	1093.43
36+900.000	10	50	2.2941	1147.07
36+910.000	10	50	2.3006	1150.32
36+920.000	10	50	2.2155	1107.77
36+930.000	10	50	2.1664	1083.21
36+940.000	10	50	2.1360	1068.01
36+950.000	10	56	1.8754	1050.25
36+960.000	10	56	1.8869	1056.67
36+970.000	10	56	2.0021	1121.2
36+980.000	10	56	2.1901	1226.47
36+990.000	10	56	2.3883	1337.44
37+000.000	10	56	2.5846	1447.37
37+010.000	10	56	2.8913	1619.13
37+020.000	10	56	3.1924	1787.75
37+030.000	10	56	3.4418	1927.4
37+040.000	10	56	3.7483	2099.03
37+050.000	10	56	4.0652	2276.49
37+060.000	10	56	4.3819	2453.84
37+070.000	10	56	4.6844	2623.28
37+080.000	10	56	5.2305	2929.06
37+090.000	10	56	6.0279	3375.63
37+100.000	10	56	6.5844	3687.28
37+110.000	10	56	6.9571	3895.98
37+120.000	10	56	7.3487	4115.26

NG. PROJECTS LIMITED

Authorised Signatory

Project Director

NIGAL LTD
Dhaka

37+130.000	10	56	7.6104	4261.85
37+140.000	10	56	7.7520	4341.1
37+150.000	10	56	7.8038	4370.14
37+160.000	10	56	7.7746	4353.75
37+170.000	10	56	7.6791	4300.28
37+180.000	10	56	7.5188	4210.54
37+190.000	10	56	7.3143	4096.02
37+200.000	10	56	7.1089	3981
37+210.000	10	56	6.8943	3860.78
37+220.000	10	56	6.6313	3713.54
37+230.000	10	56	6.3334	3546.73
37+240.000	10	56	6.0590	3393.02
37+250.000	10	56	5.8153	3256.54
37+260.000	10	56	5.5555	3111.09
37+270.000	10	56	5.3381	2989.31
37+280.000	10	56	5.1651	2892.44
37+290.000	10	56	4.9823	2790.07
37+300.000	10	56	4.7451	2657.27
37+310.000	10	50	1.0700	535
43+68.000	10	50	0.5248	262.4
43+69.000	10	50	0.8449	422.44
43+70.000	10	50	1.1004	550.19
43+710.000	10	50	1.2685	634.26
43+720.000	10	50	1.2744	637.19
43+730.000	10	50	1.3427	671.33
43+740.000	10	50	1.4983	749.15
43+750.000	10	50	1.4078	703.9
43+760.000	10	50	1.0616	530.79
43+770.000	10	50	0.7207	360.36
43+780.000	10	50	0.4717	235.87
43+790.000	10	50	0.2893	144.64
43+800.000	10	50	0.1621	81.06
43+810.000	10	46	0.1448	66.59
43+820.000	10	46	0.2285	105.11
43+830.000	10	46	0.2858	131.49
43+840.000	10	46	0.2412	110.95
43+850.000	10	46	0.2601	119.63
43+860.000	10	46	0.5248	241.39
43+870.000	10	46	0.8018	368.82
43+880.000	10	46	0.4558	209.67
43+890.000	10	38	0.0234	8.89
43+900.000	10	38	0.0000	0
43+910.000	10	38	0.2105	80
43+920.000	10	38	0.0003	0.12
43+930.000	10	38	0.0003	0.12
43+940.000	10	38	0.0000	0
43+950.000	10	38	0.0000	0.01
43+960.000	10	38	0.0001	0.05
43+970.000	10	38	0.0003	0.1
43+980.000	10	38	0.0002	0.07
43+990.000	10	38	0.0000	0.01

NO. PREPARED BY

Project Director

NAAL PIU

Dhule

Signature: Rajendran A
Designation:- Team
IPFEL in Assoc.

44+000.000	10	38	0.0000	0
44+010.000	10	38	0.0000	0
44+020.000	10	38	0.0000	0
44+030.000	10	38	0.0040	1.52
44+040.000	10	38	0.0217	8.24
44+050.000	10	38	0.0414	15.73
44+060.000	10	38	0.0535	20.33
44+070.000	10	38	0.0834	31.7
44+080.000	10	38	0.0879	33.41
44+090.000	10	38	0.0343	13.03
44+100.000	10	38	0.0310	11.79
44+110.000	10	38	0.0310	11.79
44+120.000	10	38	0.0000	0
44+130.000	10	38	0.0305	11.59
44+140.000	10	38	0.1601	60.85
44+150.000	10	46	1.0072	463.32
44+160.000	10	46	3.0965	1424.41
44+170.000	10	46	6.5392	3008.02
44+180.000	10	46	9.5733	4403.72
44+190.000	10	46	10.7957	4966
44+200.000	10	46	11.1403	5124.54
44+210.000	10	46	10.9655	5044.12
44+220.000	10	46	11.0653	5090.02
Total Cutting Qty in Cum				503413

Quantity utilization details of non forest area in the Project Alignment

Chainage	Length	width	Depth	Fill Volume (Cu.m.)	Remarks
22+860.000	10	42	0.0134	5.63	
22+870.000	10	42	0.0460	19.32	
22+880.000	10	42	0.0991	41.62	
22+890.000	10	42	0.2029	85.22	
22+900.000	10	42	0.4309	180.96	
22+910.000	10	42	0.7973	334.85	
22+920.000	10	42	1.3245	556.29	
22+930.000	10	42	2.0061	842.58	
22+940.000	10	42	2.3969	1006.68	
22+950.000	10	42	1.8251	766.54	
22+960.000	10	42	1.2101	508.25	
22+970.000	10	42	1.2803	537.71	
22+980.000	10	42	1.1000	462.01	
22+990.000	10	42	0.9592	402.85	
23+000.000	10	42	1.3384	562.12	
23+010.000	10	42	1.5364	645.27	
23+020.000	10	42	1.7320	727.43	
23+030.000	10	42	1.7704	743.55	
23+040.000	10	42	1.3958	586.25	

NG. PROJECTS LIMITED

Project Director

NHAI, PIU /

Dhanbad

Authorised Signatory

23+560.000	10	42	0.1199	50.36
23+570.000	10	42	0.1138	47.8
23+580.000	10	42	0.1050	44.09
23+590.000	10	42	0.0763	32.05
23+600.000	10	42	0.0300	12.61
23+610.000	10	42	0.0239	10.03
23+620.000	10	42	0.0547	22.98
23+630.000	10	42	0.1752	73.57
23+640.000	10	42	0.4976	208.98
23+650.000	10	42	0.8093	339.9
23+660.000	10	42	1.0042	421.76
23+670.000	10	42	1.2693	533.11
23+680.000	10	42	3.9318	1651.35
23+690.000	10	42	4.1363	1737.24
23+700.000	10	42	1.9229	807.63
23+710.000	10	42	2.1152	888.38
23+720.000	10	42	2.3067	968.83
23+730.000	10	42	2.4657	1035.59
23+740.000	10	42	2.8431	1194.09
23+750.000	10	42	3.3592	1410.88
23+760.000	10	42	3.4758	1459.84
23+770.000	10	42	3.4339	1442.22
23+780.000	10	42	3.4939	1467.45
23+790.000	10	42	3.5528	1492.19
23+800.000	10	42	3.4021	1428.89
23+810.000	10	48	2.9026	1393.26
23+820.000	10	48	3.1223	1498.72
23+830.000	10	48	3.2712	1570.17
23+840.000	10	48	3.3778	1621.33
23+850.000	10	48	3.5441	1701.17
23+860.000	10	48	3.8291	1837.95
23+870.000	10	48	4.1826	2007.65
23+880.000	10	48	4.5115	2165.53
23+890.000	10	48	4.8860	2345.28
23+900.000	10	48	5.2682	2528.73
23+910.000	10	48	5.6367	2705.63
23+920.000	10	48	5.9508	2856.39
23+930.000	10	48	6.1624	2957.96
23+940.000	10	48	6.3619	3053.73
23+950.000	10	48	6.6315	3183.13
23+960.000	10	48	7.0904	3403.39
23+970.000	10	48	7.4702	3585.68
23+980.000	10	48	7.7611	3725.31
23+990.000	10	48	8.3065	3987.12
24+000.000	10	48	6.7070	3219.37
24+010.000	10	48	2.7480	1319.02
24+020.000	10	48	0.6919	332.1
24+030.000	10	48	0.6348	304.72
24+040.000	10	48	0.5889	282.67
24+050.000	10	42	0.7056	296.36
24+060.000	10	42	0.7236	303.92

NG. PROJECTS LIMITED

Authorised Signatory

Project
NHAI PIU
Dhanbad

Name:- Rajendran Nalla
Designation:- Team Lead
IPFEP in Association
Rotrans Infra Projects
Jainamore, P

24+07.000	10	42	0.6623	278.18
24+08.000	10	42	0.6104	256.35
24+09.000	10	42	0.5562	233.61
24+10.000	10	42	0.5322	223.54
24+11.000	10	42	0.4925	206.86
24+12.000	10	42	0.4304	180.78
24+13.000	10	42	0.4415	185.42
24+14.000	10	42	0.4578	192.27
24+15.000	10	42	0.4115	172.83
24+16.000	10	42	0.3613	151.73
24+17.000	10	42	0.3098	130.1
24+18.000	10	42	0.2682	112.63
24+19.000	10	42	0.2523	105.98
24+20.000	10	42	0.2454	103.06
24+21.000	10	42	0.2323	97.55
24+22.000	10	42	0.2320	97.46
24+23.000	10	42	0.2443	102.59
24+24.000	10	42	0.2497	104.88
24+25.000	10	42	0.2800	117.59
24+26.000	10	42	0.3404	142.98
24+27.000	10	42	0.3935	165.29
24+28.000	10	42	0.4083	171.5
24+29.000	10	42	0.3899	163.76
24+30.000	10	42	0.3527	148.12
24+31.000	10	42	0.3184	133.71
24+32.000	10	42	0.2345	98.5
24+33.000	10	42	0.0863	36.23
24+34.000	10	42	0.0782	32.85
24+35.000	10	42	0.3399	142.77
24+36.000	10	42	0.5708	239.73
24+37.000	10	42	0.6083	255.49
24+38.000	10	42	0.6479	272.13
24+39.000	10	42	0.7303	306.74
24+40.000	10	42	0.8364	351.27
24+41.000	10	42	0.9422	395.71
24+42.000	10	42	1.0352	434.78
24+43.000	10	42	1.0801	453.66
24+44.000	10	42	1.0247	430.38
24+45.000	10	42	0.8957	376.19
24+46.000	10	42	0.7495	314.77
24+47.000	10	36	0.6729	242.25
24+48.000	10	36	0.4118	148.25
24+49.000	10	36	0.1745	62.82
24+50.000	10	36	0.0671	24.17
24+51.000	10	36	0.0363	13.07
24+52.000	10	36	0.0113	4.06
24+53.000	10	36	0.0030	1.09
24+54.000	10	36	0.0004	0.16
24+55.000	10	36	0.0001	0.05
24+56.000	10	36	0.0004	0.13
24+57.000	10	36	0.0097	3.49

NG. PROJECTS LIMITED

Authorised Signatory

Project Director
MDAL PIU/
Dhaka

Name: Rajendran Nair
Designation: Team Leader
IPFEP in Association with
Rotrans Infra Projects
Singapore, P.

24+80.000	10	36	0.0264	9.5	
24+90.000	10	42	0.0423	17.77	
24+100.000	10	42	0.6330	265.87	
24+110.000	10	44	3.5143	1546.31	
24+120.000	10	44	5.9004	2596.19	
24+130.000	10	44	5.8908	2591.95	
24+140.000	10	44	5.7874	2546.45	
24+150.000	10	44	5.6091	2468.01	
24+160.000	10	44	5.3372	2348.35	
24+170.000	10	44	5.0221	2209.73	
24+180.000	10	44	4.7030	2069.31	
24+190.000	10	44	4.3831	1928.55	
24+200.000	10	44	2.9667	1305.36	146647
29+000.000	10	42	0.0060	2.5	
29+010.000	10	36	0.2951	106.22	
29+020.000	10	36	0.2911	104.79	
29+030.000	10	36	0.2896	104.26	
29+040.000	10	36	0.0118	4.24	
29+050.000	10	36	0.0123	4.42	
29+060.000	10	36	0.0151	5.45	
29+070.000	10	36	0.0029	1.03	
29+080.000	10	36	0.0000	0	
29+090.000	10	36	0.0000	0	
29+100.000	10	36	0.0012	0.42	
29+110.000	10	36	0.0012	0.43	
29+120.000	10	36	0.0000	0.01	
29+130.000	10	36	0.0694	25	
29+140.000	10	36	0.1000	36	
29+150.000	10	36	0.1333	48	
29+160.000	10	36	0.1250	45	
29+170.000	10	36	0.2167	78	
29+180.000	10	36	0.2361	85	
29+190.000	10	36	0.2639	95	
29+200.000	10	36	0.2778	100	
29+210.000	10	36	0.4306	155	
29+220.000	10	36	0.4694	169	
29+230.000	10	36	0.0004	0.16	
29+240.000	10	36	0.2778	100	
29+250.000	10	36	0.2806	101	
29+260.000	10	36	0.0001	0.03	
29+270.000	10	36	0.0003	0.09	
29+280.000	10	36	0.0002	0.06	
29+290.000	10	36	0.0001	0.02	
29+300.000	10	36	0.0001	0.02	
29+310.000	10	36	0.2833	102	
29+320.000	10	36	0.7083	255	
29+330.000	10	36	0.0002	0.08	
29+340.000	10	36	0.0011	0.4	
29+350.000	10	36	0.0014	0.51	
29+360.000	10	36	0.0003	0.11	
29+370.000	10	36	0.0003	0.11	

Project Director
NHAI PIU/
Dhanbad

Name:- Rajendran Nair
Designation:- Team Leader
IPFEPL in Association with
Potras Infra Projects
Jammamore, B.

29+380.000	10	36	0.3472	125
29+390.000	10	36	0.3750	135
29+400.000	10	36	0.4028	145
29+410.000	10	36	0.9861	355
29+420.000	10	36	0.9583	345
29+430.000	10	36	0.5722	206
29+440.000	10	36	0.8583	309
29+450.000	10	36	0.5528	199
29+460.000	10	36	0.5500	198
29+470.000	10	36	0.0073	2.61
29+480.000	10	36	0.0073	2.61
29+490.000	10	36	0.0058	2.09
29+500.000	10	36	0.0064	2.31
29+510.000	10	36	0.0006	0.22
29+520.000	10	36	0.0000	0
29+530.000	10	36	0.0000	0
29+540.000	10	36	0.0049	1.75
29+550.000	10	36	0.0052	1.87
29+560.000	10	36	0.0004	0.13
29+570.000	10	36	0.0000	0
29+580.000	10	36	0.0000	0
29+590.000	10	36	0.0000	0
29+600.000	10	36	0.0020	0.72
29+610.000	10	36	0.0041	1.49
29+620.000	10	36	0.0021	0.77
29+630.000	10	36	0.2935	105.65
29+640.000	10	36	0.2937	105.72
29+650.000	10	36	0.0002	0.06
29+660.000	10	36	0.0000	0
29+670.000	10	36	0.0007	0.25
29+680.000	10	36	0.0008	0.28
29+690.000	10	36	0.0001	0.04
29+700.000	10	36	0.0003	0.09
29+710.000	10	36	0.0118	4.23
29+720.000	10	32	0.0129	4.14
29+730.000	10	32	0.1406	45
29+740.000	10	32	0.1563	50
29+750.000	10	32	0.2125	68
29+760.000	10	32	0.0140	4.47
29+770.000	10	32	0.0182	5.81
29+780.000	10	32	0.0042	1.33
29+790.000	10	32	0.0003	0.09
29+800.000	10	32	0.0006	0.19
29+810.000	10	32	0.0004	0.12
29+820.000	10	32	0.0625	20
29+830.000	10	32	0.3750	120
29+840.000	10	32	0.3750	120
29+850.000	10	32	0.0024	0.76
29+860.000	10	32	0.0024	0.76
29+870.000	10	32	0.6139	196.45
29+880.000	10	32	0.0049	1.57

N.G. PROJECTS LIMITED

Authorised Signatory

Project Director
N.G. PROJECTS LIMITED
Dhanu

Name:- Rajendran Nair
Designation:- Team Leader
IPFEPL in Association with
Rotrans Infra Project
Chennai, P.

29+890.000	10	32	0.0063	2.01	
29+900.000	10	32	0.0032	1.03	
29+910.000	10	32	0.0041	1.3	
29+920.000	10	32	0.0040	1.27	
29+930.000	10	32	0.0030	0.96	
29+940.000	10	32	0.0013	0.4	
29+950.000	10	32	0.0000	0	
29+960.000	10	32	0.0000	0	
29+970.000	10	42	0.0045	1.88	
29+980.000	10	42	0.1096	46.03	
29+990.000	10	42	0.4694	197.16	
30+000.000	10	42	0.9646	405.13	5430
30+100.000	10	42	0.0001	0.03	
30+210.000	10	42	0.0000	0	
30+320.000	10	42	0.0000	0	
30+330.000	10	42	0.0102	4.28	
30+340.000	10	42	0.0288	12.1	
30+350.000	10	42	0.0186	7.81	
30+360.000	10	42	0.0000	0	
30+370.000	10	42	0.0117	4.9	
30+380.000	10	42	0.0555	23.33	
30+390.000	10	42	0.2195	92.19	
30+400.000	10	42	0.1764	74.07	
30+410.000	10	42	0.0440	18.5	
30+420.000	10	42	0.3348	140.6	
30+430.000	10	42	0.7134	299.62	
30+440.000	10	42	0.7440	312.49	
30+450.000	10	42	0.4977	209.05	
30+460.000	10	42	0.2342	98.35	
30+470.000	10	42	0.0679	28.52	
30+480.000	10	42	0.4433	186.19	
30+490.000	10	42	1.4048	590.03	
30+500.000	10	42	0.1551	65.16	
30+510.000	10	42	0.2039	85.64	
30+520.000	10	42	0.1137	47.75	
30+530.000	10	42	6.1050	2564.08	
30+540.000	10	42	6.1381	2578	
30+550.000	10	42	5.5940	2349.48	
30+560.000	10	42	5.0400	2116.81	
30+570.000	10	42	4.5074	1893.09	
30+580.000	10	42	4.2543	1786.81	
30+590.000	10	42	4.3720	1836.24	
30+600.000	10	42	4.5614	1915.79	
30+610.000	10	42	4.6957	1972.18	
30+620.000	10	42	4.6536	1954.51	
30+630.000	10	42	4.5627	1916.35	
30+640.000	10	42	4.6695	1961.2	
30+650.000	10	42	4.6691	1961.01	
30+660.000	10	42	4.3950	1845.9	
30+670.000	10	42	4.0290	1692.2	
30+680.000	10	42	3.7569	1569.5	

NG PROJECTS LIMITED

Authorised Signatory

Signature:- Rajendran Nair
Designation:- Team Leader
IPFEP in Association with
Rotrans Infra Projects
Chennai, R.

30+690.000	10	42	3.5178	1477.46
30+700.000	10	42	3.2966	1384.56
30+710.000	10	42	3.1344	1316.44
30+720.000	10	42	3.3607	1411.48
30+730.000	10	42	3.5257	1480.79
30+740.000	10	42	3.0962	1300.4
30+750.000	10	42	2.6928	1130.96
30+760.000	10	42	2.5920	1088.62
30+770.000	10	42	2.6026	1093.08
30+780.000	10	42	2.6423	1109.78
30+790.000	10	42	0.0503	21.11
30+800.000	10	42	0.1422	59.74
30+810.000	10	42	2.1737	912.97
30+820.000	10	42	1.7540	736.67
30+830.000	10	42	1.3574	570.1
30+840.000	10	42	1.1782	494.84
30+850.000	10	42	1.2362	519.19
30+860.000	10	42	1.2062	506.6
30+870.000	10	42	0.9298	390.51
30+880.000	10	36	0.5546	199.64
30+890.000	10	36	0.1205	43.37
30+900.000	10	36	0.0015	0.55
30+910.000	10	36	0.0020	0.71
30+920.000	10	36	0.0013	0.47
30+930.000	10	36	0.0031	1.1
30+940.000	10	36	0.0030	1.07
30+950.000	10	36	0.0039	1.42
30+960.000	10	36	0.0039	1.42
30+970.000	10	36	0.0053	1.89
30+980.000	10	36	0.0053	1.89
30+990.000	10	36	0.0000	0
31+000.000	10	36	0.0004	0.14
31+010.000	10	36	0.0004	0.14
31+020.000	10	36	0.0000	0
31+030.000	10	36	0.0009	0.34
31+040.000	10	36	0.0009	0.34
31+050.000	10	36	0.0000	0
31+060.000	10	36	0.0056	2
31+070.000	10	36	0.0059	2.13
31+080.000	10	36	0.0004	0.13
31+090.000	10	36	0.0001	0.02
31+100.000	10	36	0.0001	0.02
31+110.000	10	36	0.0005	0.17
31+120.000	10	36	0.0007	0.26
31+130.000	10	36	0.0003	0.09
31+140.000	10	36	0.0000	0
31+150.000	10	36	0.0027	0.98
31+160.000	10	36	0.0304	10.93
31+170.000	10	36	0.0276	9.95
31+180.000	10	36	0.0000	0
31+190.000	10	36	0.0128	4.62

NG. PROJECTS LIMITED

Project Director

Dharmendra

Dharmendra Nair
Team Leader
In Association with
Jaipur Projects P.

31+200.000	10	36	0.1342	48.3
31+210.000	10	36	0.4371	157.35
31+220.000	10	36	0.9708	349.48
31+230.000	10	42	1.2174	511.32
31+240.000	10	42	1.2496	524.83
31+250.000	10	42	1.0132	425.56
31+260.000	10	42	0.5069	212.88
31+270.000	10	42	0.1103	40.32
31+280.000	10	42	0.0733	30.8
31+290.000	10	42	0.2520	105.85
31+300.000	10	42	0.8613	361.75
31+310.000	10	42	1.6636	698.71
31+320.000	10	42	1.9949	837.86
31+330.000	10	42	2.1021	882.88
31+340.000	10	42	2.6951	1131.94
31+350.000	10	42	3.2352	1358.79
31+360.000	10	42	2.9925	1256.84
31+370.000	10	42	2.8377	1191.84
31+380.000	10	42	3.2778	1376.66
31+390.000	10	42	3.7289	1566.13
31+400.000	10	42	3.9363	1653.24
31+410.000	10	42	3.9767	1670.23
31+420.000	10	42	3.4332	1441.96
31+430.000	10	42	3.1206	1310.67
31+440.000	10	42	3.5964	1510.49
31+450.000	10	42	3.9857	1674.01
31+460.000	10	42	4.0443	1698.61
31+470.000	10	42	3.9252	1648.59
31+480.000	10	42	3.8989	1637.54
31+490.000	10	42	3.8400	1612.82
31+500.000	10	42	3.6641	1538.94
31+510.000	10	42	3.0847	1295.57
31+520.000	10	42	2.5658	1077.62
31+530.000	10	42	2.5941	1089.54
31+540.000	10	42	2.4601	1033.26
31+550.000	10	42	1.8520	777.83
31+560.000	10	42	1.0851	455.75
31+570.000	10	42	0.3852	161.79
31+580.000	10	42	0.0278	11.67
31+590.000	10	42	0.0000	0
31+600.000	10	42	0.2755	115.71
31+610.000	10	42	1.4500	609.01
31+620.000	10	42	2.3177	973.42
31+630.000	10	42	2.7597	1159.06
31+640.000	10	42	3.5495	1490.77
31+650.000	10	42	3.8044	1597.84
31+660.000	10	42	3.1829	1336.82
31+670.000	10	42	2.3578	990.29
31+680.000	10	42	2.4633	1034.58
31+690.000	10	42	2.9270	1229.33
31+700.000	10	42	2.7861	1170.15

NG PROJECTS LIMITED

Authorized Signatory

31+710.000	10	42	2.3190	973.97
31+720.000	10	42	1.9361	813.17
31+730.000	10	42	1.6854	707.86
31+740.000	10	42	1.4454	607.06
31+750.000	10	42	1.1900	499.82
31+760.000	10	42	0.9828	412.78
31+770.000	10	42	0.6499	272.97
31+780.000	10	42	0.2375	99.74
31+790.000	10	42	0.1175	49.36
31+800.000	10	42	0.2294	96.33
31+810.000	10	42	0.1783	74.88
31+820.000	10	42	0.0542	22.77
31+830.000	10	42	0.0515	21.62
31+840.000	10	42	0.0842	35.36
31+850.000	10	42	0.0795	33.41
31+860.000	10	42	0.0284	11.91
31+870.000	10	36	0.0033	1.19
31+880.000	10	36	0.0001	0.02
31+890.000	10	36	0.0000	0
31+900.000	10	36	0.0004	0.16
31+910.000	10	36	0.0004	0.16
31+920.000	10	36	0.0000	0
31+930.000	10	36	0.0000	0
31+940.000	10	36	0.0000	0
31+950.000	10	36	0.0000	0
31+960.000	10	36	0.0000	0
31+970.000	10	36	0.0000	0
31+980.000	10	36	0.0000	0
31+990.000	10	36	0.0000	0
32+000.000	10	36	0.0019	0.68
32+010.000	10	36	0.0663	23.86
32+020.000	10	36	0.1774	63.88
32+030.000	10	36	0.2532	91.14
32+040.000	10	42	0.2729	114.63
32+050.000	10	42	0.3638	152.79
32+060.000	10	42	0.2869	120.49
32+070.000	10	42	0.3157	132.59
32+080.000	10	42	0.7870	330.52
32+090.000	10	42	0.7920	332.62
32+100.000	10	42	0.6259	262.89
32+110.000	10	42	0.8230	345.66
32+120.000	10	42	0.8059	338.47
32+130.000	10	42	0.9159	384.66
32+140.000	10	42	1.1493	482.72
32+150.000	10	42	1.1481	482.21
32+160.000	10	42	1.0487	440.46
32+170.000	10	42	0.8661	363.78
32+180.000	10	42	0.7316	307.26
32+190.000	10	42	1.6002	672.08
32+200.000	10	42	2.1047	883.99
32+210.000	10	42	1.0366	435.37

NG. PROJECTS LIMITED

Authorised Signatory

Project Director
SHAL PIU
Dhaka

Name: Rajendran Nair
Designation: Team Leader
IPFPEPL in Association with
Mamata, Br.

32+220.000	10	42	0.4243	178.2
32+230.000	10	42	0.6538	274.6
32+240.000	10	42	0.7582	318.45
32+250.000	10	42	0.6126	257.31
32+260.000	10	42	0.6989	293.53
32+270.000	10	42	0.9203	386.53
32+280.000	10	42	0.8878	372.88
32+290.000	10	42	0.7145	300.08
32+300.000	10	42	0.5901	247.84
32+310.000	10	42	0.6120	257.05
32+320.000	10	42	0.6896	289.65
32+330.000	10	42	0.7712	323.89
32+340.000	10	42	0.8116	340.86
32+350.000	10	42	0.9590	402.79
32+360.000	10	42	1.0615	445.84
32+370.000	10	42	0.9768	410.25
32+380.000	10	42	0.9039	379.65
32+390.000	10	42	0.8380	351.96
32+400.000	10	42	0.6639	278.83
32+410.000	10	42	2.2834	959.01
32+420.000	10	42	4.2740	1795.08
32+430.000	10	42	4.4880	1884.94
32+440.000	10	42	4.3660	1833.7
32+450.000	10	42	4.0436	1698.32
32+460.000	10	42	3.3403	1402.91
32+470.000	10	42	2.5111	1054.65
32+480.000	10	42	2.0842	875.35
32+490.000	10	42	1.9438	816.39
32+500.000	10	42	2.1451	900.93
32+510.000	10	42	2.7014	1134.58
32+520.000	10	42	2.9775	1250.54
32+530.000	10	42	3.0151	1266.35
32+540.000	10	42	3.1618	1327.96
32+550.000	10	32	0.0000	0
32+560.000	10	32	0.0000	0
32+570.000	10	32	0.0000	0
32+580.000	10	32	0.0000	0
32+590.000	10	32	0.0000	0
32+600.000	10	32	0.0000	0
32+610.000	10	32	0.0000	0
32+620.000	10	32	0.0000	0
32+630.000	10	32	0.0000	0
32+640.000	10	32	0.0000	0
32+650.000	10	32	0.0000	0
32+660.000	10	32	0.2738	87.6
32+670.000	10	32	0.1883	60.27
32+680.000	10	42	0.1033	43.38
32+690.000	10	42	0.0471	19.79
32+700.000	10	42	0.0298	12.52
32+710.000	10	42	0.0267	11.23
32+720.000	10	42	0.0093	3.92

N G. PROJECTS LIMITED

Authorised Signatory

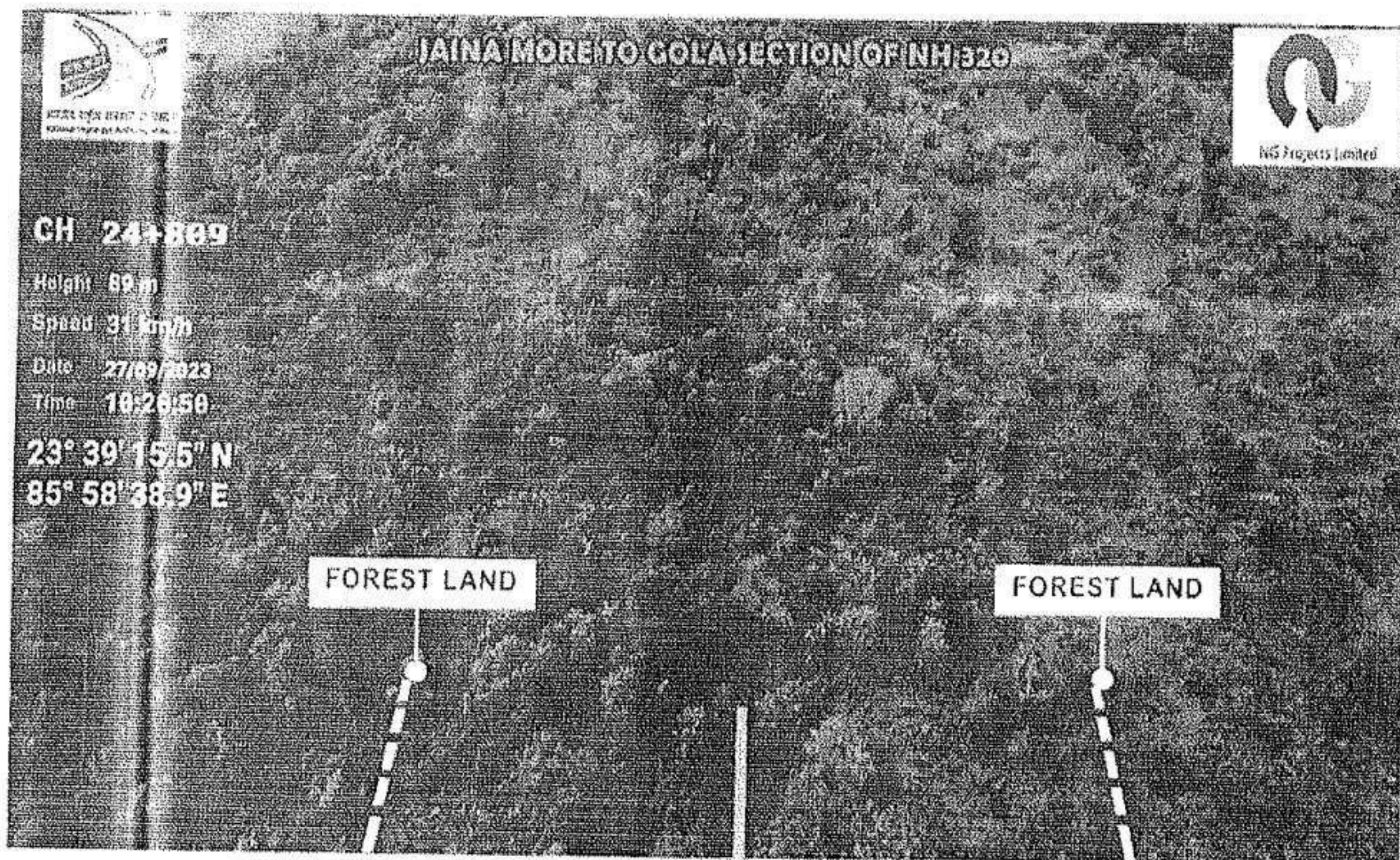
Project Director
NHA, PIU
BhulwadiName:- Reindran Nair
Designation:- Team Leader
NHA, PIU
Bhulwadi

32+73.000	10	42	0.0050	2.12	
32+740.000	10	42	0.0670	28.13	
32+750.000	10	42	0.1511	63.47	
32+760.000	10	42	0.1867	78.43	
32+770.000	10	42	0.3182	133.63	
32+780.000	10	42	0.4572	192.04	
32+790.000	10	42	0.4439	186.43	
32+800.000	10	42	0.3178	133.47	
32+810.000	10	42	0.1381	57.99	
32+820.000	10	42	0.0948	39.82	
32+830.000	10	42	0.0786	33.03	
32+840.000	10	42	0.0110	4.62	
32+850.000	10	42	0.0013	0.45	
32+860.000	10	42	0.0534	22.43	
32+870.000	10	42	0.0745	31.29	
32+880.000	10	32	0.0111	3.55	
32+890.000	10	32	0.0000	0	
32+900.000	10	32	0.0000	0	
32+910.000	10	32	0.0000	0	
32+920.000	10	32	0.0000	0	
32+930.000	10	32	0.0000	0	
32+940.000	10	32	0.0000	0	
32+950.000	10	32	0.0000	0	
32+960.000	10	32	0.0098	3.12	
32+970.000	10	32	0.0602	19.25	
32+980.000	10	32	0.0743	23.77	
32+990.000	10	42	0.0580	24.36	
33+000.000	10	42	0.1804	75.78	
33+010.000	10	42	0.4750	199.48	
33+020.000	10	42	0.0000	0	
33+030.000	10	42	1.3114	550.78	
33+040.000	10	42	1.3169	553.11	
33+050.000	10	42	0.0000	0	
33+060.000	10	42	1.0199	428.36	
33+070.000	10	42	1.0069	422.9	
33+080.000	10	42	0.7677	322.45	
33+090.000	10	42	0.4599	193.17	
33+100.000	10	42	0.1467	61.62	139524
Total Filling Qty in Cum				291601	
Rock quantity (crushed material usable in pavement crust)				211812	
Total Qty. in Cum				503413	

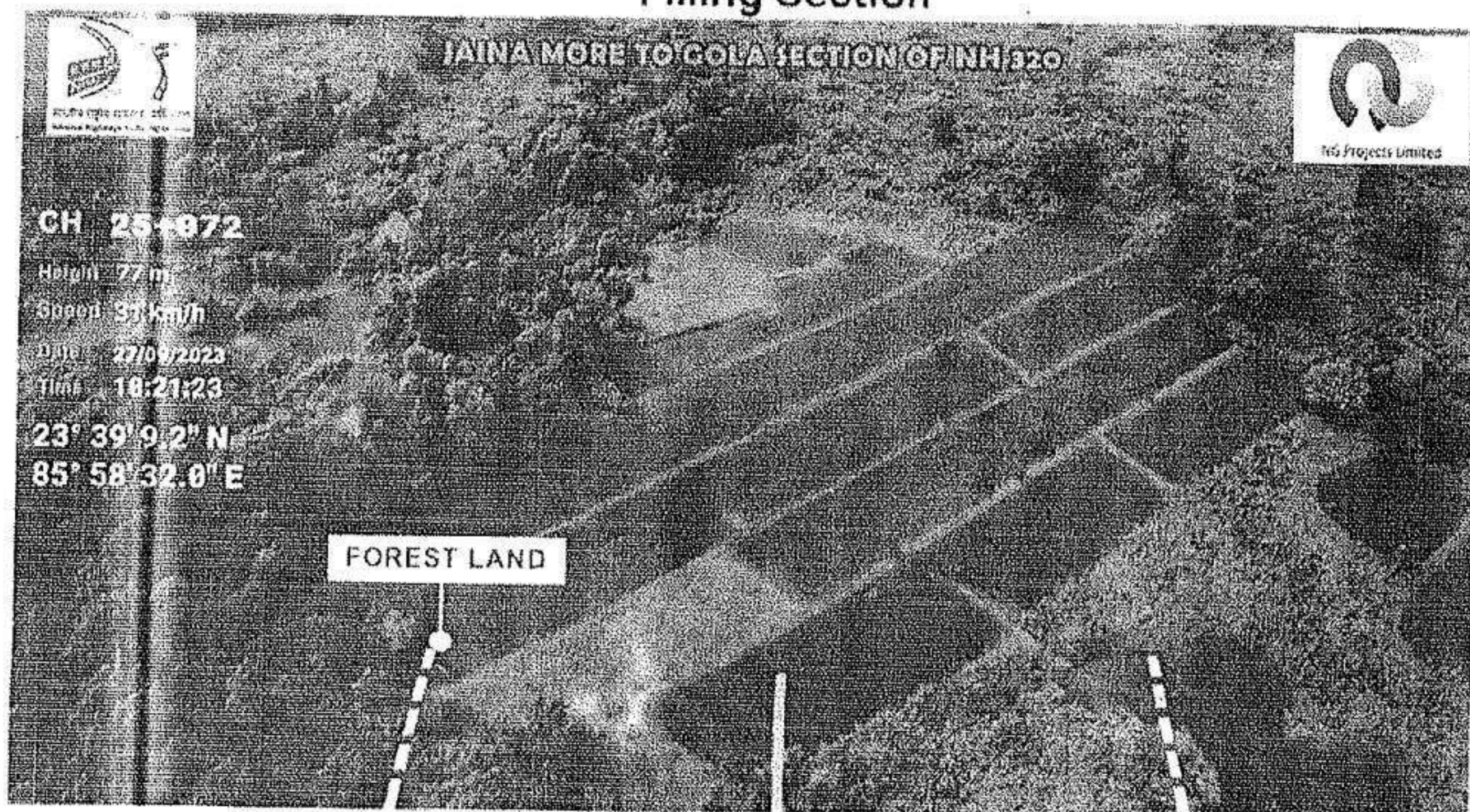
M.G. PROJECTS LIMITED

Authorised Signatory

Signature of Navin
 Signature of Team Leader
 Signature of
 Signature of



Filling Section

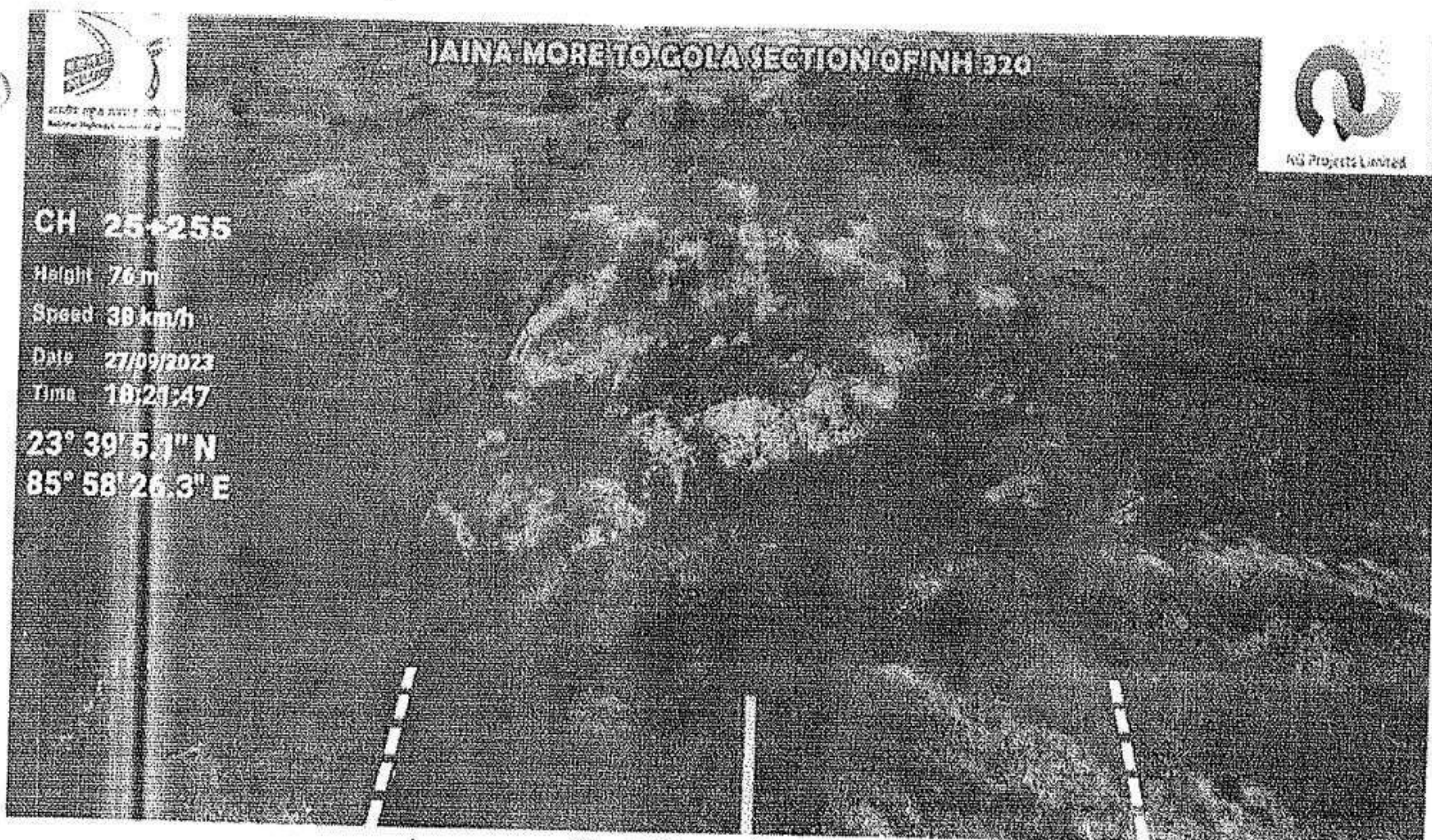


Filling Section

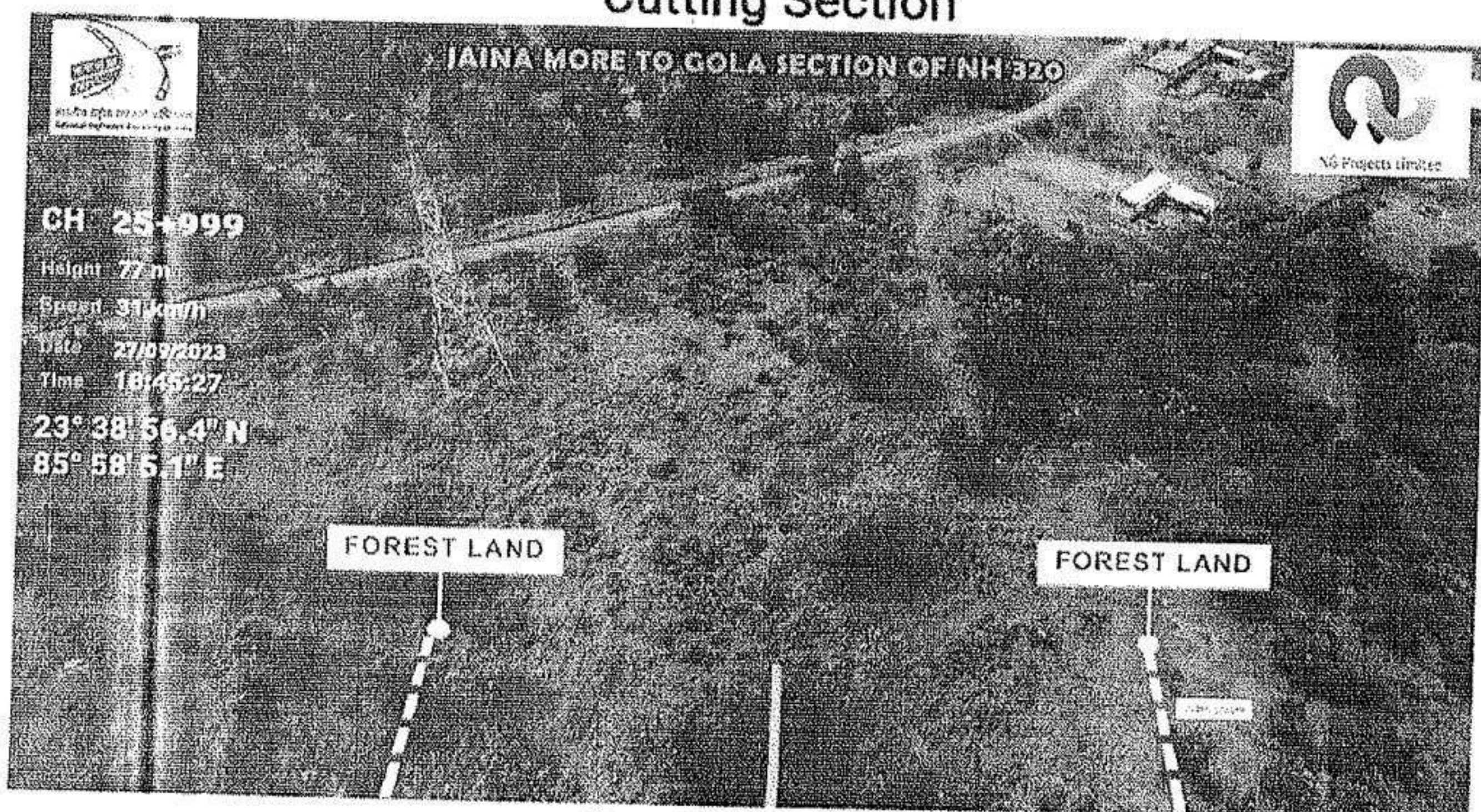
N.G. PROJECTS LIMITED
[Signature]
Authorised Signatory

[Signature]
12/10/2023

[Signature]
Name: Rajendran Nair
Designation: Team Leader
In-charge of NH 320
Jainam - Gola



Cutting Section



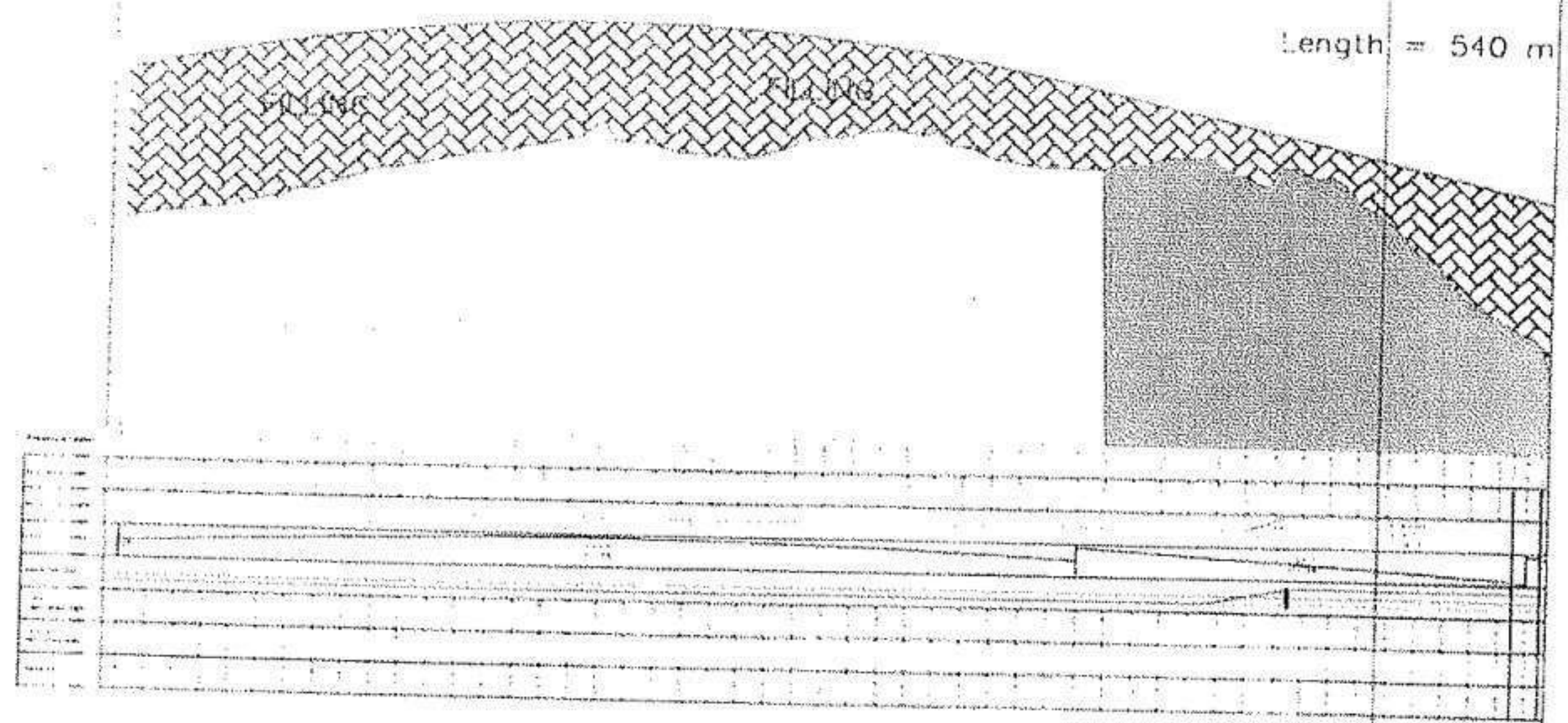
Cutting Section

N.G. PROJECTS LIMITED
[Signature]
Authorised Signatory

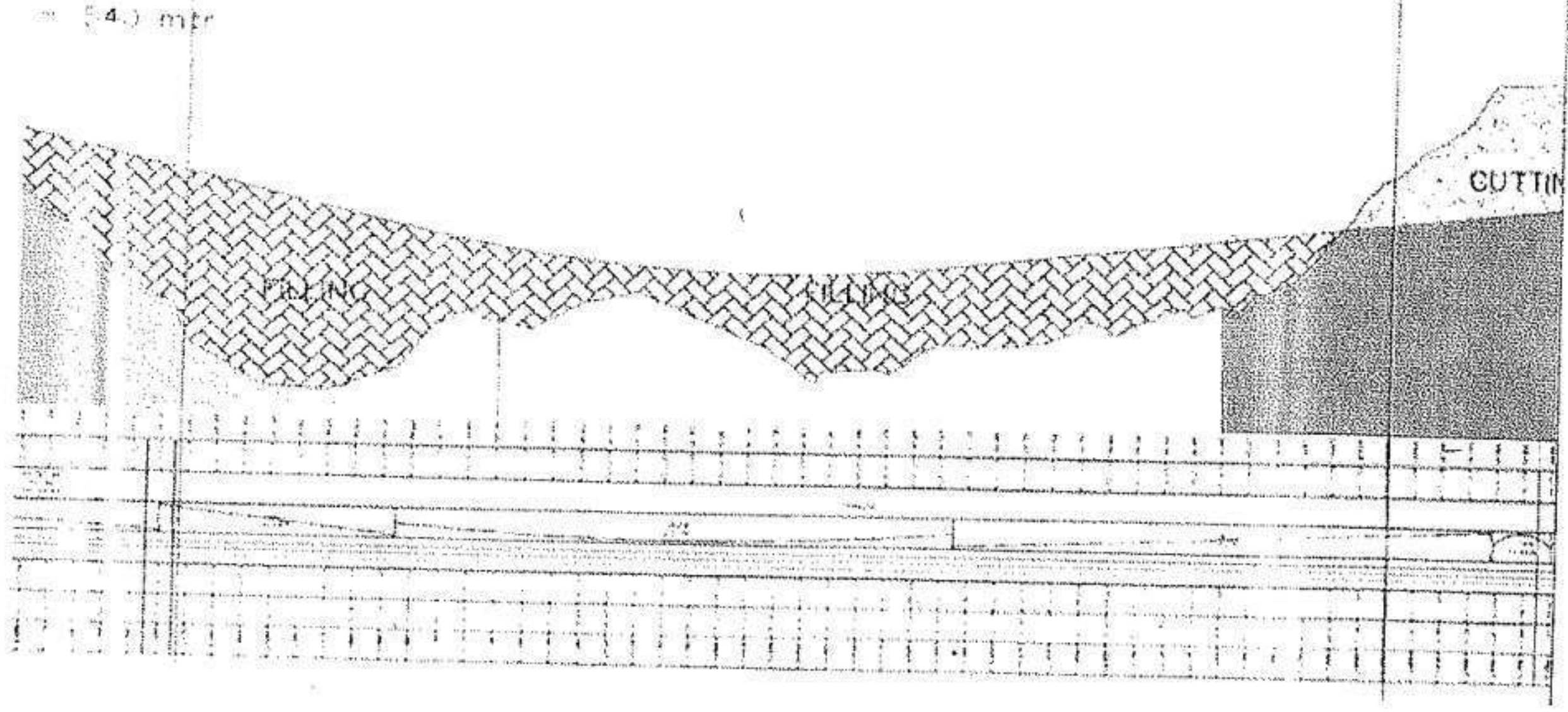
Project Director
N.G. PIU
Dhambad

[Signature]
Name: Rajendran Nall
Designation: Team Leader
IPFPL in Association with
N.G. Projects P. Ltd.
Jan 2022 to Dec 2022

Four Lining with paved shoulder of section from km 21.110 (Bokaro Jaina More) on NH-320 to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode



Four Lining with paved shoulder of section from km 21.110 (Bokaro Jaina More) on NH-320 to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode

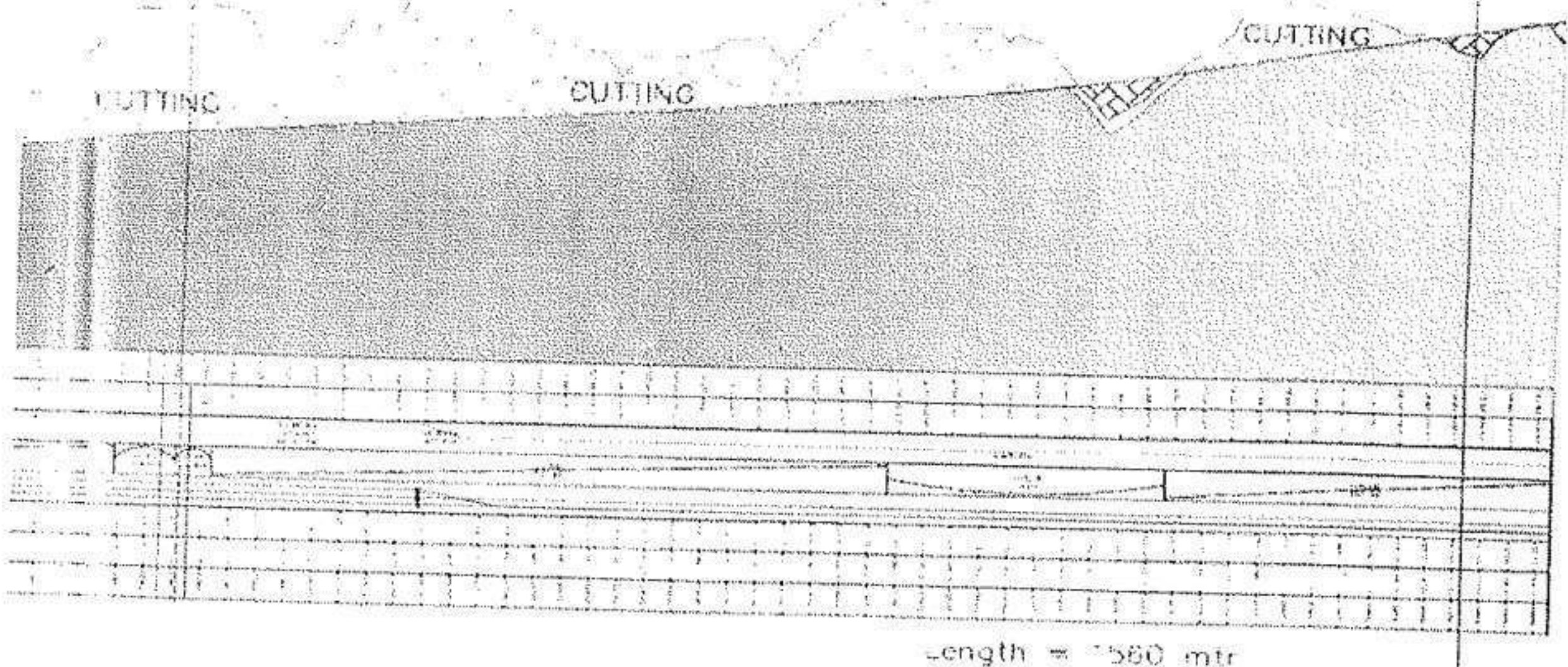


N.G. PROJECTS LIMITED
 Authorised Signatory

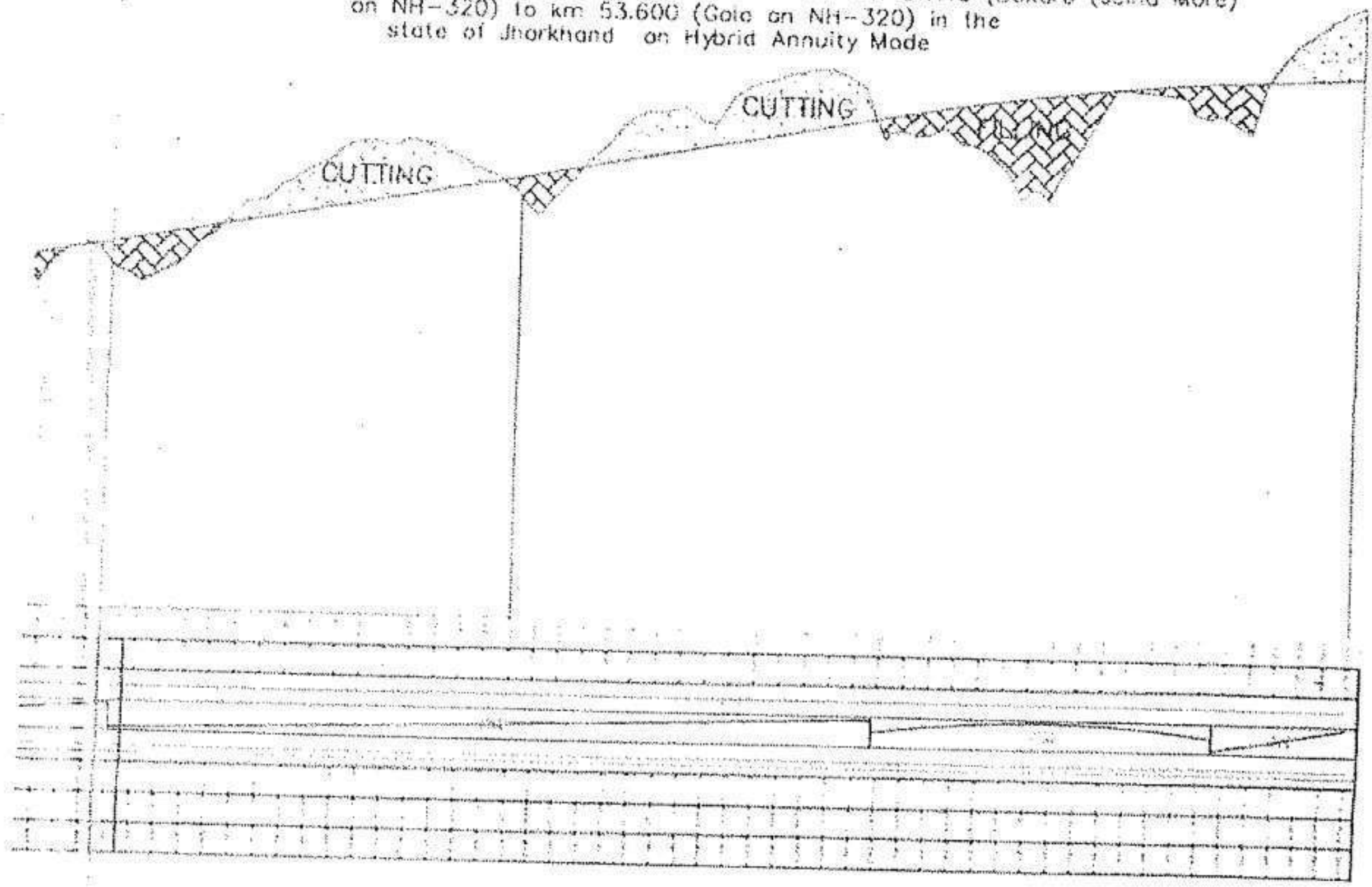
Project Director
 12/01/2013

Name:- Rajendra Nair
 Designation:- Team Leader
 IPFEP in Association with
 Federal Infra Projects Pvt. Ltd.
 Jaipur, Bharat Pkg.

Four Laning with paved shoulder of section from km 21.110 (Bokaro (Jaina Moro) on NH-320) to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode



Four Laning with paved shoulder of section from km 21.110 (Bokaro (Jaina Moro) on NH-320) to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode



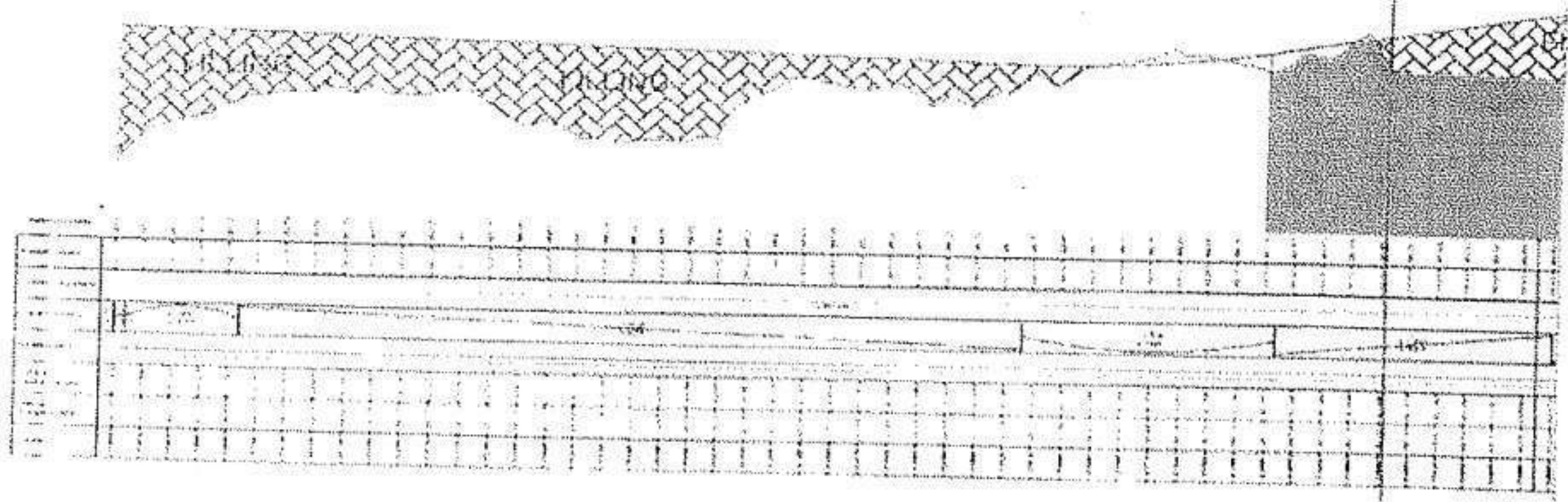
N.G. PROJECTS LIMITED

Authorized Signatory

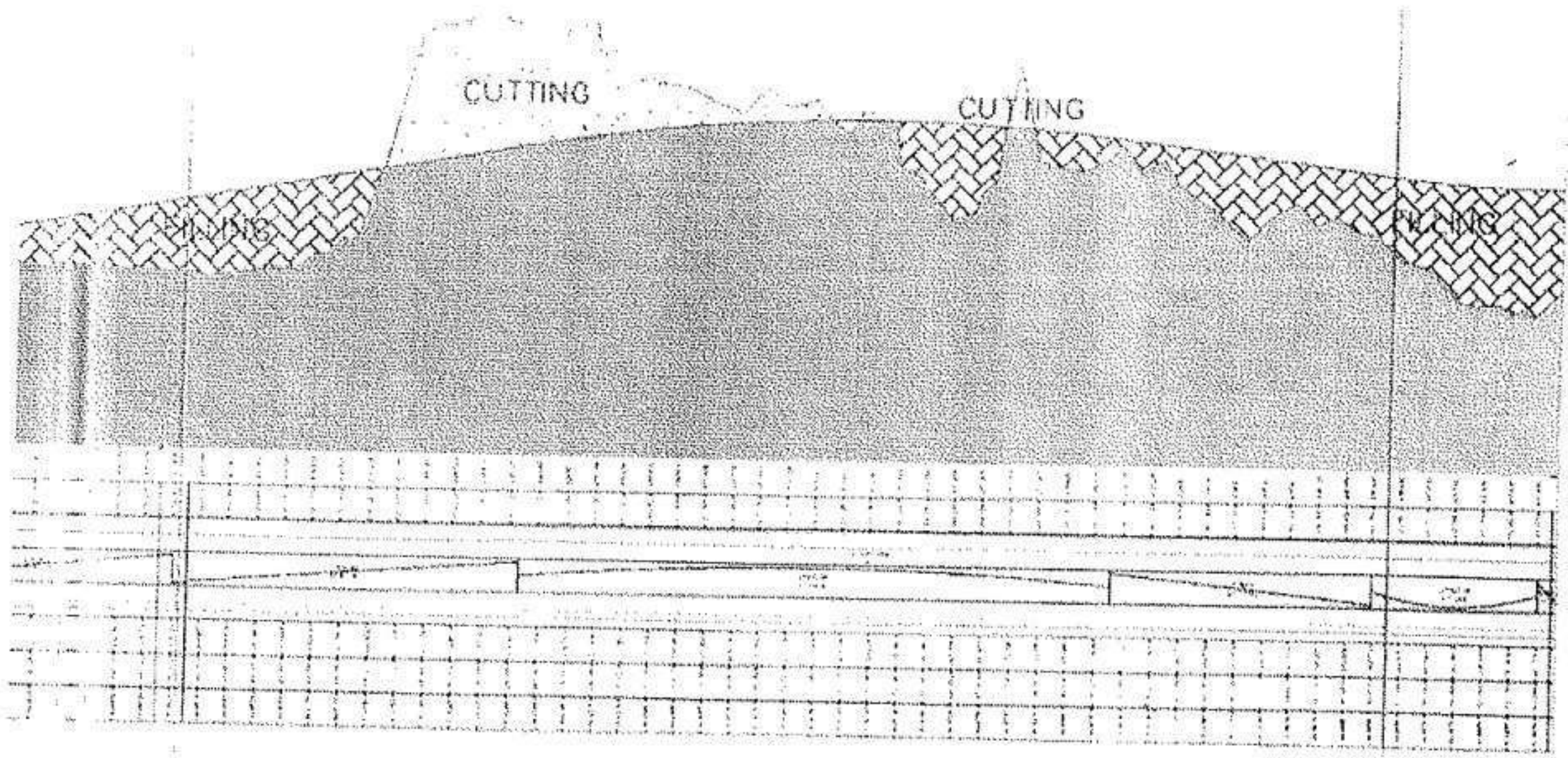
Name:- Rajendran Nair
Designation:- Team Leader
IPFEPL in Association with
Trans Infra Projects Pvt. Ltd.
Bokaro Road

Fou

Four Lining with paved shoulder of section from km 21.110 (Bokaro (Jaina More) on NH-320) to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode



Four Lining with paved shoulder of section from km 21.110 (Bokaro (Jaina More) on NH-320) to km 53.600 (Gola on NH-320) in the state of Jharkhand on Hybrid Annuity Mode



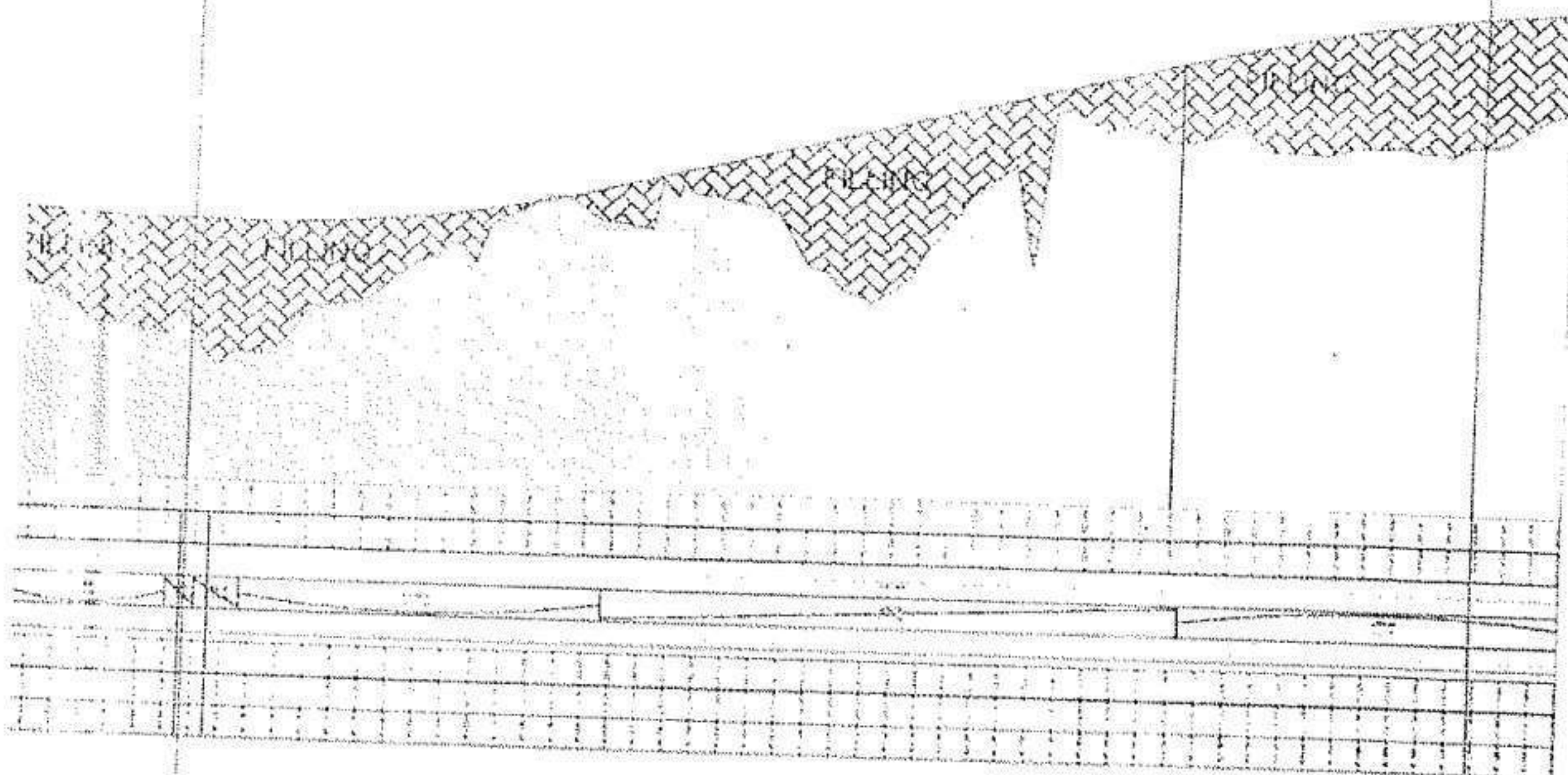
N.G. PROJECTS LIMITED

Authorised Signatory

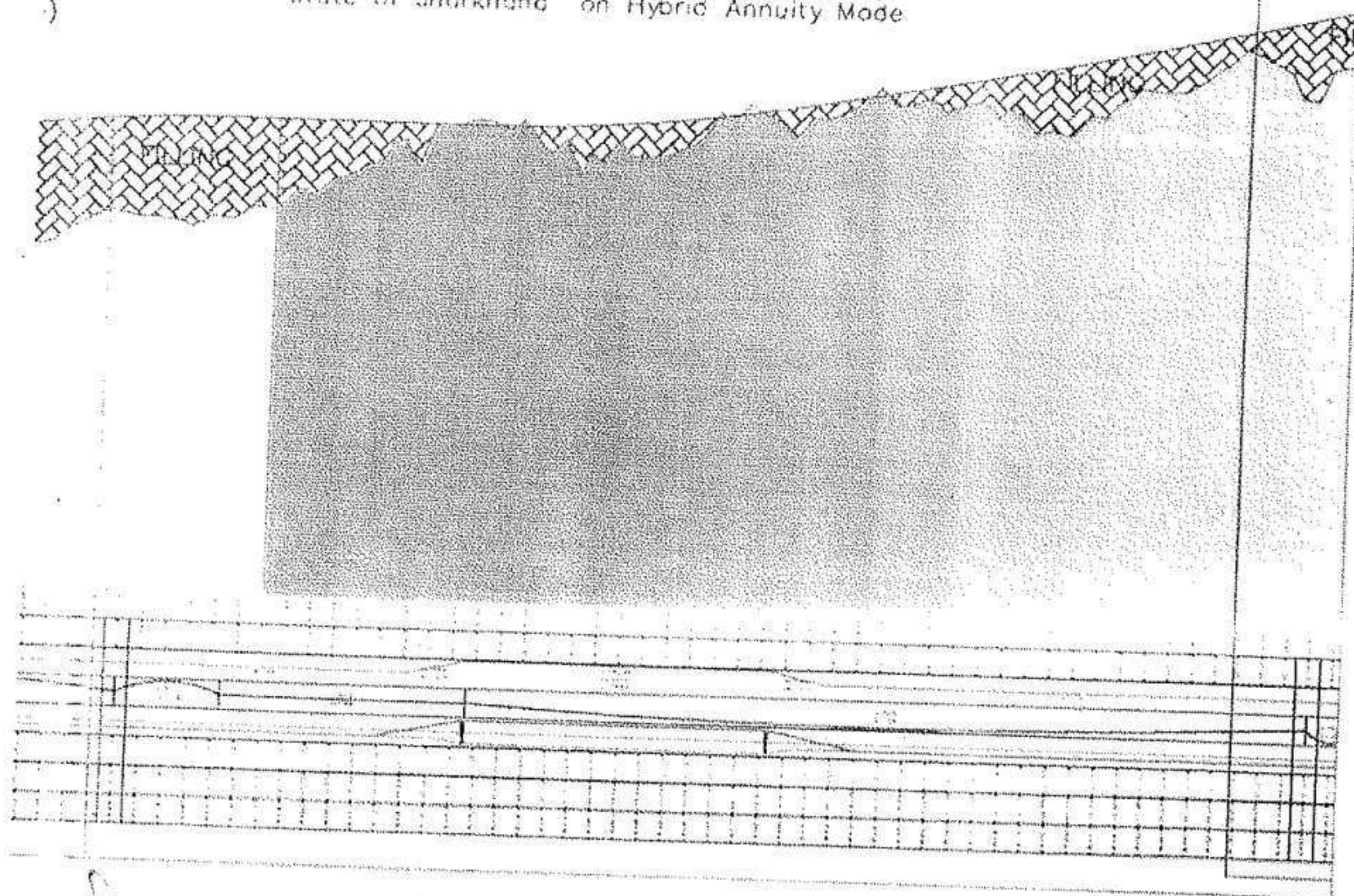
RECEIVED
11/12/2019
JHARKHAND
TRANSPORT DEPARTMENT

Name:- Rajendran Nair
Designation:- Team Leader
IPFEPL In Association with
Petrant and Projects Pvt. Ltd.
Bokaro Phase

Four Lining with paved shoulder of section from km 21.110 (Bokaro (Jaina More))
on NH-320 to km 53.600 (Gola on NH-320) in the
state of Jharkhand on Hybrid Annuity Mode



Four Lining with paved shoulder of section from km 21.110 (Bokaro (Jaina More))
on NH-320 to km 53.600 (Gola on NH-320) in the
state of Jharkhand on Hybrid Annuity Mode



NG PROJECTS LIMITED

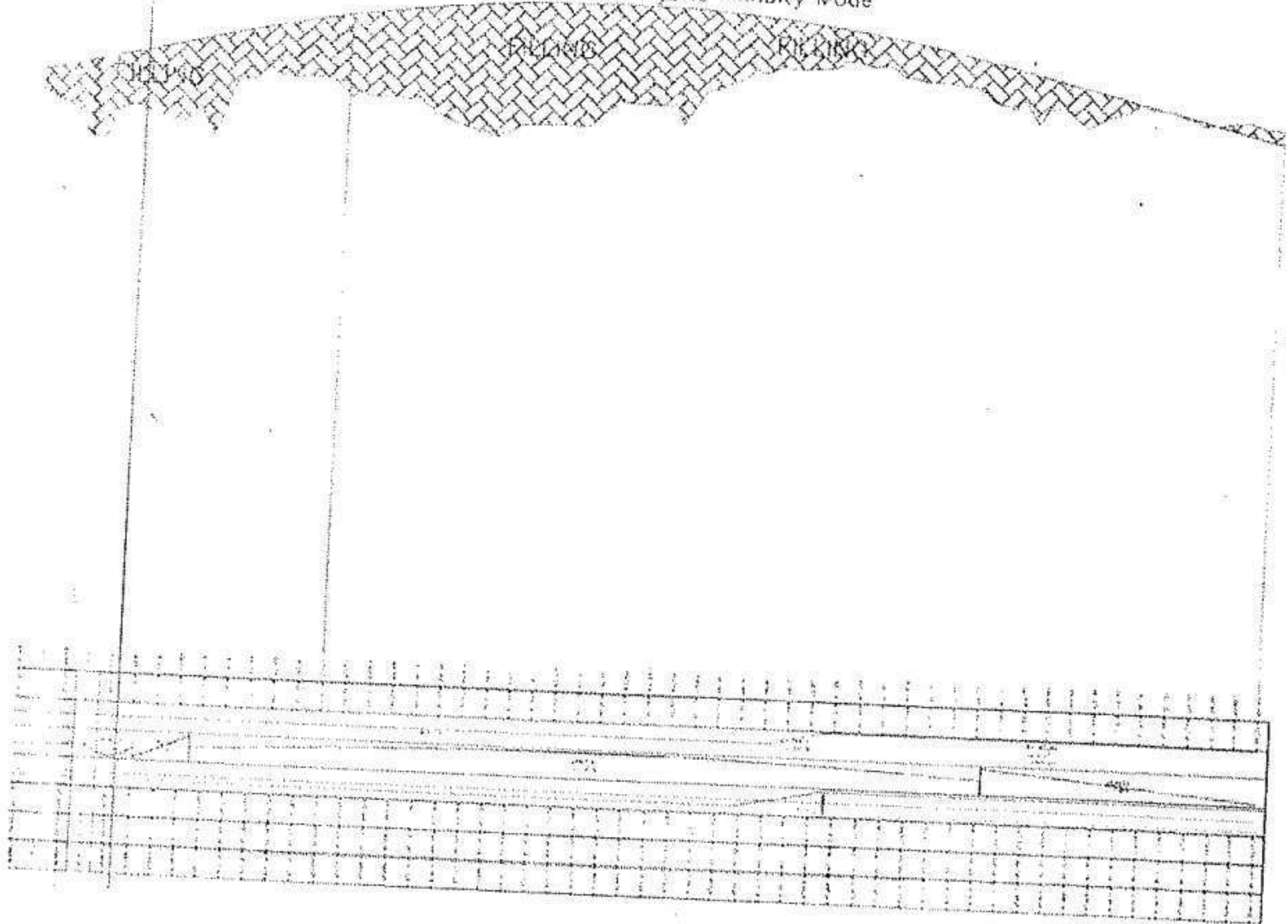
Authorised Signatory

Project #2
NHAI PIU
Bihar

Name:- Rajendran Nair
Designation:- Team Leader
IPFEP
2019

3

For Loring with paved shoulder of section from km 21.110 (Bokaro (Jain More)
or NH-320) to km 53.600 (Gola or NH-320) in the
state of Jharkhand on Hybrid Annuity Mode



A.G. PROJECTS LIMITED
Authorized Signatory

Name:- Rajendran Nair
Designation:- Team Leader
IPFEPL in Association with
Potrans Infra Projects Pvt. Ltd.
Bokaro Page 1

BOKARO HIGHWAY PRIVATE LIMITED

CIN : U45309GJ2022PTC131980

Dated: 17/11/2023

To whomsoever it may concern

Undertaking with ref. to compliance of DFO Bokaro letter no. 2422, dated: 01/11/2023 Point no.- 8 & 9 for implementation of work according to approved Muck Disposal Plan.

Concessionaire has submitted that Muck Disposal Plan for the muck received from the Project Highway through Authority NHAI. In this connection Concessionaire would like to give assurance that the development and construction of the aforesaid work will be executed as per submitted and approved muck disposal plan with the specifications and standards as per good engineering practices.

Also, the concessionaire have all the application liability as per rules of mining/ revenue department for the stone utilized in the Project and would strictly adhere all the conditions for the muck disposal plan by the forest department.

Thanking you and assuring of our best services at all the times.

For:-N G Projects Ltd.
N G. PROJECTS LIMITED


Authorized Signatory
Authorized Signatory

Project Director



Name:- Rajendran Nair
Designation:- Team Leader
IPREP, Concession with
Forest in the Project area
Jharkhand, Bokaro

MC CIRCLE, MENTAPURA, HIMATNAGAR, DIST SABARKANTHA, GUJARAT-383001
Contact : 02772-222404/405 Email : nghibokaro@gmail.com

FORM-I

Annex-6

RECEIPT

(For linear projects)

Government of Jharkhand
Office of the District Collector, Bokaro

Memo No-----2023/...../

Dated...../...../2023.

TO WHOM SOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forest (MoEF), Government of India's letter No.11-9/98-FC (pt.) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and the Other Traditional Forest Dwellers (Recognition of Forest Right) Act, 2006 ('FRA', for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that Notified Land-6.9352 Hec. and GMJJ/GM Jungle - 59.6084 Hec, Total Land-66.5436 Hec. of G.M JJ/Forest Land proposed to be diverted in favour of Bharatmala Priyojna for (purpose for diversion of forest land/GJJ/Notified land) in Bokaro district falls within jurisdiction of Bandhdih, Kalyanpur, Baradih, Bahadurpur, Kamlapur, Ponda, Dantu, Chargi, Lukaiya, Darid, Lepo, Takaha, Sadmakhard, Chandrapura, Sadmakala village(s) in Jaridih, Kasmar and Petarwar tehsils. It is further certified that:

Sl. No.	Circle	Mouza	Thana no.	Khata no.	Plot no.	GM.JJ. & GM. Jungle (in Ha.)	Notified Forest (in Ha.)	Total Area (in Ha.)	Nature of Land as per Forest Map	
1	Jaridih	Bandhdih	11	01	41	0.7564	0	0.7564	GMJJ	
					4282	1.0125	0	1.0125	GMJJ	
					750	0.2281	0	0.2281	GMJJ	
					760	0.0118	0	0.0118	GMJJ	
					785	0.2489	0	0.2489	GMJJ	
					798	0.0336	0	0.0336	GMJJ	
					800	0.0074	0	0.0074	GMJJ	
					806	0.2474	0	0.2474	GMJJ	
					832	0.0560	0	0.056	GMJJ	
					909	0.1295	0	0.1295	GMJJ	
					919	0.3034	0	0.3034	GMJJ	
					Total :-					3.0350
		Kalyanpur	81	55	462	0.0634	0	0.0634	GMJJ	
					990	2.0457	0	2.0457	GMJJ	
		Total :-					2.1091	0	2.1091	
		Baradih	82	01	1385	0.6060	0	0.6060	GMJJ	
					1614	0.0201	0	0.0201	GMJJ	
					1630	0.6022	0	0.6022	GMJJ	
					936	0	1.3045	1.3045	NF	
		Total :-					1.2283	1.3045	2.5328	
	Bahadurpur	78	44	1035	0.3420	0	0.3420	GMJJ		
				1045	1.4021	0	1.4021	GMJJ		
				754	1.5946	0	1.5946	GMJJ		
				973	0.0036	0	0.0036	GMJJ		
				978	3.5364	2.0890	5.6254	NF & GMJJ		
				992	4.5153	0	4.5153	GMJJ		

Fur/mgno

					999	0.4007	0	0.4007	GMJJ
		Total				11.7947	2.0890	13.8837	
2	Kasmar	Kamlapur	76	39	204	0.2669	0	0.2669	GM Jungle
					212	1.8872	0	1.8872	GM Jungle
					328	0.3928	0	0.3928	GM Jungle
					396	0.945	0	0.945	GM Jungle
					425	1.5389	0	1.5389	GM Jungle
					469	0.3262	0	0.3262	GM Jungle
					482	0.7346	0	0.7346	GM Jungle
					496	2.9851	0	2.9851	GM Jungle
		Total				9.0767	0	9.0767	
		Ponra	74	60	18	0.6949	0	0.6949	GM Jungle
					2	0.1726	0	0.1726	GM Jungle
		Total				0.8675	0	0.8675	
		Dantu	64	76	1124	0.1911	0	0.1911	GM Jungle
					1233	0.0546	0	0.0546	GM Jungle
					1264	0.4658	0	0.4658	GM Jungle
					1282	0.6961	0	0.6961	GM Jungle
					1319	0.2019	0	0.2019	GM Jungle
					1324	2.2645	0	2.2645	GM Jungle
					1326	0.0148	0	0.0148	GM Jungle
					1330	0.2066	0	0.2066	GM Jungle
					527	0.2826	0	0.2826	GM Jungle
					563	0.7726	0	0.7726	GM Jungle
					612	0.1264	0	0.1264	GM Jungle
					639	0.3602	0	0.3602	GM Jungle
					727	0.5474	0	0.5474	GM Jungle
					823	0.4176	0	0.4176	GM Jungle
		Total				6.6022	0	6.6022	
3	Petarbar	Darid	65	92	124	0.4256	0	0.4256	GMJJ
					128	0.4145	0	0.4145	GMJJ
					133	0.3535	0	0.3535	GMJJ
					269	0.0875	0	0.0875	GMJJ
					364	2.7255	0	2.7255	GMJJ
					386	0.2394	0	0.2394	GMJJ
					514	0.0202	0	0.0202	GMJJ
		Total				4.2662	0	4.2662	
		Lukuiya	67	43	15	1.1677	0	1.1677	GMJJ
					221	0	1.0228	1.0228	NF
					23	0.8646	0	0.8646	GMJJ
					230	0.0147	0	0.0147	GMJJ
					27	0.7683	0	0.7683	GMJJ
					8	0	1.4409	1.4409	NF
		Total				2.8153	2.4637	5.2790	
		Takaha	27	23	123	1.3004	0	1.3004	GMJJ
					144	0.1094	0	0.1094	GMJJ
				39	214	0.4471	0	0.4471	GMJJ
					47	0.1628	0	0.1628	GMJJ
		Total				2.0197	0	2.0197	

		Sadmakalan	28	57	15	2.7156	0	2.7156	GM Jungle
					213	1.4815	0	1.4815	GM Jungle
					312	2.1125	0	2.1125	GM Jungle
					32	0.7644	0	0.7644	GM Jungle
					Total				7.0740
		Sadmakhurd	25	49	107	0.0426	0	0.0426	GM Jungle
					56	1.5516	0	1.5516	GM Jungle
		Total				1.5942	0	1.5942	
		Chandarpura	24	31	128	0.6527	0	0.6527	GM Jungle
					253	0.7186	0	0.7186	GM Jungle
					46	0	0.0416	0.0416	NF
					94	0.9819	0	0.9819	GM Jungle
		Total				2.3532	0.0416	2.3948	
		Lepo	15	01	347	0	0.1336	0.1336	NF
					349	0.5227	0	0.5227	GMJJ
					370	0.0106	0	0.0106	GMJJ
					375	0.1416	0	0.1416	GMJJ
					74	0.0052	0	0.0052	GMJJ
		Total				0.6801	0.1336	0.8137	
		Chargi	16	01	115	1.3005	0	1.3005	GMJJ
					340	0.2748	0	0.2748	GMJJ
					371	0.4434	0	0.4434	GMJJ
					428	0.2622	0.9028	1.165	NF & GMJJ
					453	0.7665	0	0.7665	GMJJ
					477	0.6849	0	0.6849	GMJJ
					479	0.3599	0	0.3599	GMJJ
		Total				4.0922	0.9028	4.9950	
		Gross Total				59.6084	6.9352	66.5436	

- (a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire **66.5436 Hectore.** of G.M JJ/Forest Land area proposed for diversion. A copy of records of all consultations and meetings of the Forest Rights Committees(s), Sub-Division Level Committee(s) and the District Level Committee are enclosed as **annexure-I**
- (b) The proposal for such diversion (with full details of the project and its implications, in vernacular/local language) have been placed before each concerned Gram Sabha of forest-dwellers, who eligible under the FRAs.
- (c) The each of concerned Gram Sabha(s), has certified that all formalities/processes under the FM have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of propose diversion. A copy of certificated issued by the gram sabha of **Bandhdih, Kalyanpur, Baradih, Bahadurpur, Kamlapur, Ponda, Dantu, Chargi, Lukaiya, Darid, Lepo, Takaha, Sadmakhurd, Chandrapura, Sadmakala** village(s) is enclosed as **annexure-I**
- (d) The discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present.
- (e) The diversion of forest land for facilities managed by the Government as required under 3(2) of the FRA have been completed and the Gram Sabha have given their consent to it;
- (f) The rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3(1)(e) of FRA.

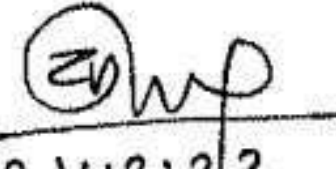
Encl :As above.

Sd/-
District Collector
Bokaro

Memo No. 256 /2023/(Well), Dated 24/02 /2023.

Copy To :-

1. Project Director NHAI, PIU- Dhanbad for necessary action.
2. Additional Collector, Bokaro for information and necessary action.
3. Commissioner North Chhotanagpur Division Hazaribag for kind information.
4. Special Secretary to Government Revenue and Land Reform Deptt. Jharkhand, Ranchi for information.
5. Tribal Welfare Commissioner, Jharkhand, Ranchi for kind information.
6. Secretary, JUSNL Jharkhand Ranchi, for kind information.


24.2.23
District Collector
Bokaro

ANNEXURE - 7

UNDERTAKING IN REFERENCE TO SECTION-A, PARA 10 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that there shall be no violation of any of the conditions mentioned in MoEF&CC, IRO, GOI letter no. FP/JH/ROAD/146250/2021/1177 dated 13.06.2023 (Stage-I Clearance).


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

ANNEXURE - 8

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 01 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that Legal status of forest land shall not be changed.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

ANNEXURE - 9

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 02 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) has already deposited the CA demand raised by forest department which will be taken up by the Forest Department in degraded forest land as per mentioned condition. In this regards, user agency undertakes that if forest department demands any deficit amount, same shall be deposited by user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 03 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that additional amount of NPV of diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be deposited by the user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

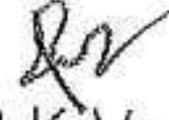
UNDERTAKING IN REFERENCE TO SECTION-B, PARA 04 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that the trees having diameter less than 7 inches shall be translocated as per the set standards of the High-Powered Committee constituted in the State of Jharkhand that governs the tree felling under the supervision/guidance of forest department representative.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 05 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that we will be felling only unavoidable trees under the supervision and direction of the State Forest Department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 06 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHA) undertakes that the boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.


(R.K Verma)
Project Director (PKG-I),
NHA, PIU-Dhanbad.

OFFICE OF THE DIVISIONAL FOREST OFFICER,

BOKARO FOREST DIVISION, BOKARO

Annex-14

BLOCK-A, VAN BHAWAN, PURULIA ROAD, CHAS, BOKARO-827013

E-mail : dfo-bokaro@gov.in & bokarodfo@gmail.com

Phone/Fax No : +91-6542-265142

Letter no. 1844

Date. 11/08/2023

To,

The Project Director,
National Highway Authority of India
NHAI Complex, Kandra,
PO-Bhitia, PS-Govindpur,
Dhanbad-828109
Email-dhan@nhai.org

Shalendra
16/08/23
11/08/2023
1630
11/8/23

Subject : - Creation of 3D model in GIS domain for stretch of NH320 identified as site for creation of safe passage for wildlife

Ref. :- Stage-I Clearance for Bharatmala Project vide MoEF&CC, Govt. Integrated Regional Office, Ranchi letter no.-FP/JH/Road/146250/2021/1177 Dated-13.06.2023

Sir,

This is brought to your notice that based of field survey and past distribution of elephant; we have identified three stretches in Bokaro Forest Division having forest cover which are being currently used by elephants for their movement i.e. chainage 44+000 to 47+000. After review of OGL and FRL proposed in the project and after consulting the wildlife experts, under Bokaro Forest Division total three locations has been identified for creating suitable civil structure without disturbing the alignment of road proposed in the project. The site selected for underpass are places where earth work cutting is proposed for more than 6 meter and overpass (elevated road) are proposed where average height of 8 meter or more will be available for elephants. Following are details of chainage proposed for creating overpass/underpass:

Overpass

1. Chainage 44+180 to 44+300

Underpass

1. Chainage 44+800 to 45+120
2. Chainage 45+420 to 46+120

In the light of above, you are advised to submit 3D model using GIS for following scenario for chainage 44+000 to 47+000 along with structural design for overpass and underpass on suggest location as earliest.

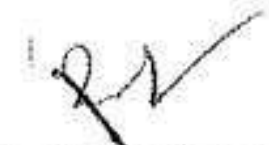
1. Present landscape
2. Change in landscape without safe passage for elephants
3. Change in landscape after creating safe passage for elephants

Yours Truly

[Signature]
Divisional Forest Officer,
Bokaro Forest Division, Bokaro.

CERTIFICATE OF UNDERTAKING

National Highways Authority of India (NHAI) undertakes that the suitable under passes for animal movement in Forest Area/ Road stretch as per recommendations of concerned DFO will be provided after due approval of Wildlife Management Plan from competent authority.


(R.K. Verma)

Project Director (PKG-I)
NHAI, PIU-Dhanbad.
Project Director
NHAI, PIU
Dhanbad

ANNEXURE - 15

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 08 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that unrestricted access will be provided to Forest Department vehicles for Managing forests & wildlife during project operation phase.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 09 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that strip plantation on both sides of the road shall be raised as per the IRC norms.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

ANNEXURE - 17

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 10 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that the layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 11 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that the following conditions shall be ensured as mentioned in In-principal approval :-

- (a) No labor camp shall be established on the forest land.
- (b) The User Agency shall provide alternate fuels preferably LPG to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.
- (c) Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION-B, PARA 12 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that the following conditions shall be ensured as mentioned in In-principal approval :-

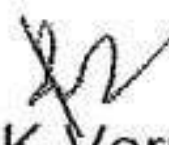
- (a) The period of diversion under this approval shall be co-terminus with the period of the project life.
- (b) The forest land shall not be used for any purpose other than that specified in the project proposal.
- (c) The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior Approval of the Ministry of Environment, Forest & Climate Change.



(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.

UNDERTAKING IN REFERENCE TO SECTION B, PARA 13 OF CONDITION MENTIONED
IN MOEF&CC, IRO, GOI LETTER NO. FP/JH/ROAD/146250/2021/1177 DATED 13.06.2023
(STAGE-I CLEARANCE).

National Highways Authority of India (NHAI) undertakes that any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, Protection and development of forest & wildlife shall be ensured by this department.


(R.K Verma)
Project Director (PKG-I),
NHAI, PIU-Dhanbad.