

Ref. No. NBC/Project-Mines/2023/347

Date:17.07.2023

To

**The Divisional Forest Officer,
Koraput Forest Division
Koraput Odisha.**

- Sub: (i) Proposal for non-forestry use of 697.979 ha of forest land for Pottangi Bauxite Mining Lease in village Pottangi of Koraput Forest Division under Pottangi Tahasil of Koraput District, Odisha by M/s NALCO Ltd - reg.
- (ii) Compliance to the conditions imposed in Stage-I FC approval
- Ref. (i) MoEF& CC letter No. 8-17/2022-FC dated 10.01.2023/Stage-I approval
- (ii) Your Letter No. 2386 Dt. 09/05/2023 for depositing Rs. 46,84,58,003/- towards approved schemes & compliance to the other condition
- (iii) Your Office letter no-1001 dated 16-02-2023
- (iv) Your Office letter no-3346 dated 14-07-2023

Respected Madam,

With reference to the above cited subject & references, re-submitting the point wise compliance report to the conditions stipulated in Stage-I forest clearance of Pottangi Bauxite Mine.

Sl. No.	Conditions	Compliance
A	Conditions which need to be complied prior to handling over of forest land by the State Forest Department and compliance is to be submitted prior to Stage-II approval	
1	Compensatory Afforestation: (i) The Compensatory Afforestation over degraded forest land, double in extent to the forest land being diverted i.e. of 1400 ha. Shall be raised by the State Forest Department at the project cost.	In compliance to this condition, NALCO has deposited an amount of Rs.2,00,92,19,027/- (Out of which Rs. 1,34,07,08,700/- towards CA & Rs. 66,85,10,327/- towards NPV) Cost in ORISSA CAMPA

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

नालको भवन, नयापल्ली, भुवनेश्वर-751 061, भारत

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NALCO BHAVAN, Nayapalli, Bhubaneswar-751 061, INDIA

वेबसाइट Website: www.nalcoindia.com

	<p>(ii) The cost of compensatory Afforestation at the prevailing wage rates as per compensatory Afforestation scheme and the cost of survey, demarcation and erection of permanent pillars, if required on the CA land, shall be deposited in advance with the Forest Department by the user agency. The CA will be maintained for 10 years. The scheme may include Afforestation of indigenous species with appropriate provision for anticipated cost increase for works scheduled for subsequent years</p> <p>(iii) The KML files of diverted area, the CA areas, the proposed SMC treatment area and the WLMP area shall be uploaded on the e-Green watch portal with all requisite details prior to Stage-II approval.</p>	<p>account No.150825829981389 of Union Bank Lodi Road New Delhi vide RTGS UTR No. SBINR12023020830827876 dtd. 08.02.2023 (Annexure-A-I)</p> <p>In Compliance to this condition KML files of diverted area, the CA areas, the proposed SMC treatment area and the WLMP area enclosed in soft copy in a pen drive. This will be uploaded in the e-Green portal of MoEF& CC, by the office of DFO Koraput.</p>
2	<p>The User Agency shall transfer the funds towards the cost of Net Present Value (NPV) of the forest land being diverted under this proposal in accordance with the MoEF& CC's guidelines dated 6.01.2022 read with guidelines dated 19.01.2022</p>	<p>In compliance to this condition, NALCO has deposited an amount of Rs. 2,00,92,19,027/- (Out of which Rs. 1,34,07,08,700/- towards CA & Rs. 66,85,10,327/- towards NPV) Cost in ORISSA CAMPA account No.150825829981389 of Union Bank Lodi Road New Delhi vide RTGS UTR No. SBINR12023020830827876 dtd. 08.02.2023 (Annexure-A-II)</p>
3	<p>Compensatory levies to be realized from the User Agency under the project shall be transferred/deposited, through e-challan, in to the account of CAMPA pertaining to the State concerned through e-portal.</p>	<p>In compliance to this condition undertaking enclosed as Annexure A-III</p>

4	<p>Following activities, as per approved plan/schemes, shall be undertaken in the lease area by the User Agency under the supervision of the State Forest Department. Approved scheme/plan shall be submitted to the Ministry along with compliance of Stage-I approval:</p> <p>(i) Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved Plan in consultation with the State Forest Department.</p> <p>(ii) Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion in accordance with the approved scheme</p> <p>(iii) Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme</p> <p>(iv) Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 280 and</p> <p>(v) No damage shall be caused to the top-soil and the user agency will follow the top soil management plan.</p>	<p>In compliance to this condition related schemes with separate financial outlay have been approved by RCCF Koraput.</p> <p>Undertakings enclosed as Annexure A-IV(i) Rs. 32,35,759/- as approved by RCCF, Koraput</p> <p>A-IV(ii) Rs.80,42,190/- as approved by RCCF, Koraput</p> <p>A-IV(iii) Rs.95,84,122/- as approved by RCCF, Koraput</p> <p>A-IV(iv) Rs.3,37,28,945/- as approved by RCCF, Koraput</p> <p>A-IV(v) Rs.1,25,75,320/- as approved by RCCF, Koraput</p>
5	<p>User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests</p>	<p>In compliance to this condition a scheme is prepared with an amount of Rs.42,38,92,861/- and approved</p>

	(having crown density less than 0.40), if any, located in the area within 100 meter from outer perimeter of the mining lease. The plan for plantation and SMC activities will be prepared and submitted to MoEF& CC before Stage-II Clearance	The amount has been deposited in CAMPA fund vide UTR No. SBINR12033052050478599 Dated 20.05.2023. (Annexure-A-III)
6	The User Agency shall prepare a list of existing village tanks and other water bodies with GPS co-ordinates located within five km from the mine lease boundary. This list is to be duly verified by the concerned Divisional Forest Officer. The User Agency shall regularly undertake desilting of these village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies. A detailed approved plan for desilting of identified ponds and water bodies to be prepared in consultation with forest department and shall be submitted to MoEF& CC before Stage-II approval	In compliance to this condition a scheme is prepared with an amount of Rs.5,56,901/- and approved by RCCF, Koraput.
7	Safety Zone Management: Following activities, at project cost, shall be undertaken by the user agency for the management of safety zone as per relevant guidelines issued by the Ministry's guidelines: (i) User agency shall ensure demarcation of safety zone (7.5 meter strip all along the inner boundary of the mining lease area), and its fencing, protection and regeneration by erecting adequate number of 6 feet high RCC boundary pillars	In compliance to this condition undertaking enclosed as Annexure A-VI In compliance to this condition a scheme is prepared with an amount of Rs. 3,11,58,035/- and approved

	<p>inscribed with DGPS coordinates with barbed wire fencing and deploying adequate number of watchers under the supervision of the State Forest Department;</p> <p>(ii) Boundary of the safety zone of the mining lease, adjacent to habitation/roads, should be properly fenced by the user agency;</p> <p>(iii) Safety zone shall be maintained as green belt around mining lease and to ensure dense canopy in the area, regeneration shall be taken up in this area by the user agency at project cost under the supervision of the State Forest Department;</p> <p>(iv) Afforestation on degraded forest land to be selected elsewhere, measuring one and a half times the area under safety zone, shall also be done at the project cost under the supervisions of the State Forest Department. The degraded forest land (DFL) so selected will be informed to the MoEF& CC with shape files before Stage-II approval and Afforestation will be done within three years from the date of Stage-II clearance and maintained thereafter in accordance with the approved Plan in consultation with the State Forest Department; and</p> <p>(v) The State Government and the user agency shall ensure that safety zone is maintained as per the prescribed norms</p>	<p>by RCCF, Koraput.</p> <p>In compliance to this condition a scheme is prepared with an amount of Rs.4,45,65,142/-and approved by RCCF.</p> <p>The amount has been deposited in CAMPA fund vide UTR No. SBINR12033052050478599 Dated 20.05.2023. (Annexure A-IV)</p> <p>The Safety zone will be maintained by user agency as per the prescribed norms with the supervision of Forest Dept.</p>
8	The cost of felling of trees shall be deposited by	In compliance to this condition

	the User Agency with the State Forest Department	undertaking is enclosed as Annexure -A-VIII
9	Wildlife Management Plan: Site specific Wildlife Management Plan to mitigate the impact of project on wildlife of the area shall be prepared by the state Government in consultation with the PCCF & Chief Wildlife Warden of State at project cost and an approved copy of the same along with detail of deposition of funds into the CAMPA account shall be submitted to the Ministry along with Stage-I compliance	In compliance to this condition a plan has been approved by PCCF of Forests (Wildlife) & Chief Wildlife Warden, Odisha, Bhubaneswar with total financial outlay of Rs. 14,35,62,100/- (Rupees Fourteen crore thirty five lakhs Sixty two Thousand One Hundred Only) . The amount has been deposited in adhoc-CAMPA fund vide-UTR No SBINR12023040341586728 Dtd.03.04.2023 (Annexure-A-V)
10	State Government shall complete settlement of rights, in term of the Scheduled Tribes and Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, if any, on the forest land to be diverted and submit the documentary evidence, along with compliance of Stage-I approval, as prescribed by this Ministry's letter No. 11-9/1998-Fc (Pt.) dated 03.08.2009 read with 05.07.2013, in support thereof; and	The certificate in support of this has been issued by the Collector, Koraput vide letter No. 3122/21 dtd. 11.11.2021. (Copy enclosed as Annexure-3)
11	The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/)	Will be made by once the compliance report is approved by PCCF (Nodal) In compliance to this condition an undertaking enclosed as Annexure-A-XI

B.	Conditions which need to be 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 diverted forest land shall remain unchanged	In compliance to this condition an undertaking enclosed as Annexure B-I
2	Compensatory Afforestation over degraded forest land, double in extent to the forest land being diverted, shall be raised by the State Forest Department at the project cost within three years from the date of grant of Stage-II approval	To be clarified by the Koraput Forest Division.
3	At the time of payment of the Net Present Value (NPV) at the present rate, the user agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India	In compliance to this condition an undertaking enclosed as Annexure B-II
4	Trees should be felled in phased manner as per the requirement in the approved Mining Plan with prior permission of DFO	In compliance to this condition an undertaking enclosed as Annexure B-III
5	The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department	In compliance to this condition an undertaking enclosed as Annexure B-IV
6	The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by	In compliance to this condition an undertaking enclosed as Annexure B-V

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	<p>the User Agency form the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act,1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the concern Addl. Principal Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities area satisfactorily executed</p>	
7	<p>The User Agency shall comply with the Hon'ble Supreme Court order on re-grassing, and re-grass the mining area and any other areas which may have been disturbed due to mining to restore them to a condition which is fit for growth of fodder, flora, fauna, etc. in a timely manner</p>	<p>In compliance to this condition an undertaking enclosed as Annexure B-VI</p>
8	<p>Period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended and the Rules framed there-under</p>	<p>In compliance to this condition an undertaking enclosed as Annexure B-VII</p>
9	<p>The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act,1986,</p>	<p>Enviormental clerance has been received from MoEF&CC as described in Annexure B-VIII .</p>

	if required	
10	No labour camp shall be established on the forest land and the User Agency shall provide fuels preferably alternate fuels to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas	In compliance to this condition an undertaking enclosed as Annexure B-IX
11	The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS coordinates	In compliance to this condition an undertaking enclosed as Annexure B-X
12	The layout plan of the mining plan/proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal	In compliance to this condition an undertaking enclosed as Annexure B-XI
13	The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government	In compliance to this condition an undertaking enclosed as Annexure B-XII
14	No damage to the flora and fauna of the adjoining area shall be caused	In compliance to this condition an undertaking enclosed as Annexure B-XIII
15	The User Agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year	In compliance to this condition an undertaking enclosed as Annexure B-XIV

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	regularly	
16	Any other condition that the concerned Regional Office of this Ministry may stipulate with the approval of competent authority in the interest of conservation, protection and development of forests & wildlife	In compliance to this condition an undertaking enclosed as Annexure B-XV
17	The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project	In compliance to this condition an undertaking enclosed as Annexure B-XVI
18	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 guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019	In compliance to this condition an undertaking enclosed as Annexure B-XVII

Thanking You.

Yours Sincerely

Enclosures: As above


Authorized Signatory
 R. K. Patra
 Executive Director (Project-Mines) I/c. &
 Authorised Signatory
 Project & Technical Departments
 National Aluminium Company Ltd.
 Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-I

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (1)

(i) The Compensatory Afforestation over degraded forest land, double in extent to the forest land being diverted i.e. of 1400 ha. Shall be raised by the State Forest Department at the project cost.

(ii) The cost of compensatory Afforestation at the prevailing wage rates as per compensatory Afforestation scheme and the cost of survey, demarcation and erection of permanent pillars, if required on the CA land, shall be deposited in advance with the Forest Department by the user agency. The CA will be maintained for 10 years. The scheme may include Afforestation of indigenous species with appropriate provision for anticipated cost increase for works scheduled for subsequent years

(iii) The KML files of diverted area, the CA areas, the proposed SMC treatment area and the WLMP area shall be uploaded on the e-Green watch portal with all requisite details prior to Stage-II approval.

Compliance to Condition No. A (1)

In compliance to this condition, NALCO has deposited an amount of Rs. 2,00,92,19,027/- (Out of which Rs. 1,34,07,08,700/- towards CA & 66,85,10,327/- towards NPV) Cost in ORISSA CAMPA account No.150825829981389 of Union Bank Lodi Road New Delhi vide RTGS UTR No. SBINR12023020830827876 dtd. 08.02.2023 **(Annexure-I)**

In Compliance to this condition KML files of diverted area, the CA areas, the proposed SMC treatment area and the WLMP area enclosed in soft copy in a pen drive.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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भारतीय स्टेट बैंक
State Bank of India
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e-PayOrder Details

e-PayOrder Number AOI3163880 RTGS UTR NO: SBINR12023020830827876
Debit Status Success
Scheduled Time 08-Feb-2023 [03:05 PM] IST

08-Feb-2023

ORISSA CAMPA MINISTRY OF ENVIRONMENT & FORESTS, GO

Two Hundred Crores Ninety Two Lakhs Nineteen
Thousand Twenty Seven only

2,00,92,19,027.00

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SFTPH2HUploader
MakerPURNA CHANDRASEKHAR
GUMMADI
Authorizer 1PADHI8656
Authorizer 2

"AOI3163880"

CMP00000000603182752

Counterfoil Description 10044880013

Transaction Type Fund Transfer

Debit Account Details

Account No.	Branch	Amount
00000010044880013	09817	2,00,92,19,027.00

Credit Account Details

Beneficiary Name	Branch	Amount	Credit Status
150825829981389	ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	150825829981389 / ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	00000 UBIN0996335 2,00,92,19,027.00 Success

AGENCY COPY

यूनियन बैंक Union Bank of India
आंध्र प्रदेश



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 31-01-2023

Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981389
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address.	Nalco Bhawan, P/1, Nayapalli BhubaneswarKhordha
Amount(in Rs)	2009219027/-

Amount in Words : Two Hundred Crore Ninety-Two Lakh Nineteen Thousand and Twenty-Seven Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981389 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
आंध्र प्रदेश



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 31-01-2023

Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981389
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address:	Nalco Bhawan, P/1, Nayapalli Bhubaneswar Khordha
Amount(in Rs)	2009219027/-

Amount in Words : Two Hundred Crore Ninety-Two Lakh Nineteen Thousand and Twenty-Seven Rupees Only

NEFT/RTGS to be made as per following details;

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Pay to Account No.	150825829981389 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

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

UNDERTAKING

ANNEXURE-A-II

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (2)

The User Agency shall transfer the funds towards the cost of Net Present Value (NPV) of the forest land being diverted under this proposal in accordance with the MoEF & CC's guidelines dated 6.01.2022 read with guidelines dated 19.01.2022.

Compliance to Condition No. A (2)

In compliance to this condition, NALCO has deposited an amount of Rs. 2,00,92,19,027/- (Out of which Rs. 1,34,07,08,700/- towards CA & 66,85,10,327/- towards NPV) Cost in ORISSA CAMPA account No.150825829981389 of Union Bank Lodi Road New Delhi vide RTGS UTR No. SBINR12023020830827876 dtd. 08.02.2023.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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भारतीय स्टेट बैंक
State Bank of India
Wish you - all the way

e-PayOrder Details

e-PayOrder Number AOI3163880 RTGS UTR NO: SBINR12023020830827876
Debit Status Success
Scheduled Time 08-Feb-2023 [03:05 PM] IST

08-Feb-2023

ORISSA CAMPA MINISTRY OF ENVIRONMENT & FORESTS, GO

Two Hundred Crores Ninety Two Lakhs Nineteen
Thousand Twenty Seven only

2,00,92,19,027.00

00000010044880013

SFTPH2HUploader
MakerPURNA CHANDRASEKHAR
GUMMADI
Authorizer 1PADHI8656
Authorizer 2

"AOI3163880"

CMP00000000603182752

Counterfoil Description 10044880013

Transaction Type Fund Transfer

Debit Account Details

Account No	Branch	Amount
00000010044880013	09817	2,00,92,19,027.00

Credit Account Details

Beneficiary Name	Branch	Amount	Credit Status
150825829981389	ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	150825829981389 / ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	00000UBIN0996335 2,00,92,19,027.00 Success

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NEFT / RTGS CHALLAN for CAMPA Funds

Date : 31-01-2023

Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981389
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address.	Nalco Bhawan, P/1, Nayapalli BhubaneswarKhordha
Amount(in Rs)	2009219027/-

Amount in Words :Two Hundred Crore Ninety-Two Lakh Nineteen Thousand and Twenty-Seven Rupees Only

NEFT/RTGS to be made as per following details;

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IFSC Code:	UBIN0996335
Pay to Account No.	150825829981389 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



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 31-01-2023

Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981389
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address:	Nalco Bhawan, P/1, Nayapalli Bhubaneswar Khordha
Amount(in Rs)	2009219027/-

Amount in Words :Two Hundred Crore Ninety-Two Lakh Nineteen Thousand and Twenty-Seven Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981389 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

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

ANNEXURE-A-III

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (3)

Compensatory levies to be realized from the User Agency under the project shall be transferred/ deposited, through e-challan, in to the account of CAMPA pertaining to the State concerned through e-portal (<https://parivesh.nic.in/>);

Compliance to Condition No. A (3)

In compliance to this condition NALCO has already deposited the required levies as per the demand of DFO, Koraput through e-challan, in to the account of CAMPA. The details are attached in Annx-1.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

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फैक्स Fax: (0674) 2301290, 2300580, 2300740, 2300640 & 2300246

National Aluminium Company Limited

(A Government of India Enterprise)

CORPORATE OFFICE

NALCO BHAVAN, Nayapalli, Bhubaneswar-751 061, INDIA

वेबसाइट Website: www.nalcoindia.com

ANNEXURE-1

DETAILS OF LEVIES PAID BY NALCO		
	i. Compensatory Afforestation Cost	Rs. 1,34,07,08,700/-
	ii. Implementation of Site specific Wildlife Conservation Plan (Koraput) as approved by the PCCF (WL)	Rs. 14,35,62,100/-
	iii. Net Present Value (NPV)	Rs. 66,85,10,327/-
	iv. Afforestation over (1.5 times of Safety Zone for 36 ha.) Degraded forest land in Koraput division as per condition no A.7 (iv) of Stage-I approval	Rs. 4,45,65,142/-
	v. Gap planting and SMC within 100 meters of the outer periphery of the ML area related to Koraput Division	Rs. 42,38,92,861/-
	Grand Total Amount Realized	Rs. 2,62,12,39,130/-
	i. Details of Bank	State Bank Of India, IFSC Code: SBIN0006908 Damanjodi Branch, Damanjodi, Koraput
	ii. Name of Bank	State Bank Of India, Damanjodi Branch, Damanjodi, Koraput
	iii. Bank Draft No.	Through RTGS
	v. Grand Total Amount	Rs. 2,62,12,39,130/-
	vi. Whether deposited by RTGS, if so, the particulars and date of remittance	
	UTR No: SBINR12023020830827876, Dated.08.02.2023	Rs. 2,00,92,19,027/-
	UTR No: SBINR12023052050478599, Dated.08.02.2023	Rs. 46,84,58,003/-
	UTR No: SBINR12023040341586728, Dated.03.04.2023	Rs. 14,35,62,100/-
	Grand Total	Rs. 2,62,12,39,130/-
	vii. Bank (Corporation Bank, Lodhi Complex/Union Bank Of India, Sundarnagarh) In which deposited, with date of deposition.	Union Bank Of India, FSC Center, Bengaluru IFSC Code: UBIN0996335


Authorized Signatory
 Executive Director (Project-Mines) I/c. &
 Authorised Signatory
 Project & Technical Department
 National Aluminium Company Ltd.
 Bhubaneswar-751013

UNDERTAKING

ANNEXURE-A-IV(i)

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (4.i)

Mitigative measures to minimize soil erosion and chocking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved Plan in consultation with the State Forest Department.

Compliance to Condition No. A (4.i)

In compliance to this condition a scheme has been prepared by Nalco amounting to **Rs. 32,35,759/- (Rupees Thirty Two Lakhs Thirty Five Thousand Seven Hundred Fifty Nine only)** & approved by RCCF Koraput. NALCO do hereby undertake to take mitigative measures to minimize soil erosion and chocking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved plan in consultation with the State Forest Department at project cost.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

UNDERTAKING

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ANNEXURE-A-IV(ii)

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (4.ii)

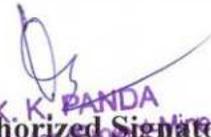
Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion in accordance with the approved scheme.

Compliance to Condition No. A (4.ii)

In compliance to this condition a scheme has been prepared by Nalco amounting to **Rs. 80,42,190/- (Rupees Eighty Lakhs Fourty two Thousand One Hundred Ninety only)** & approved by RCCF Koraput. NALCO do hereby undertake to do Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion at project cost as per the approved scheme.

Place: Bhubaneswar

Date:


K. K. PANDA
Authorized Signatory
Executive Director (Project Mines) /c. &
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-IV(iii)

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (4.iii)

Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme.

Compliance to Condition No. A (4.iii)

In compliance to this condition a scheme has been prepared by Nalco amounting to **Rs. 95,84,122/- (Rupees Ninety Five lakhs Eighty Four Thousand One Hundred Twenty Two only)** & approved by RCCF Koraput. NALCO do hereby undertake to do Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project & Technical Departments) &
Authorized Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-IV(iv)

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (4.iv)

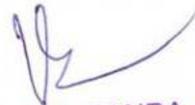
Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28⁰ and.

Compliance to Condition No. A (4.iv)

In compliance to this condition a scheme has been prepared by Nalco amounting to **Rs. 3,37,28,945/- (Rupees Three Corers Thirty Seven lakhs Twenty Eight Thousand Nine Hundred Fourty Five only)** & approved by RCCF Koraput. NALCO do hereby undertake to incur the expenditure & Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28⁰.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

UNDERTAKING

नेशनल एल्युमिनियम कम्पनी लिमिटेड
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ANNEXURE-A-IV(v)

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (4.v)

No damage shall be caused to the top-soil and the user agency will follow the top soil management plan.

Compliance to Condition No. A (4.v)

In compliance to this condition a scheme has been prepared by Nalco amounting to **Rs. 1,25,75,320/- (Rupees One Crore Twenty Five lakhs Seventy Five thousand Three hundred twenty only)** & approved by RCCF Koraput. NALCO do hereby undertake not to cause any damage to the top-soil and the NALCO will follow the top soil management plan at project cost as per the approved scheme.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Mines) /c. &
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-V

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (5)

User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 meter from outer perimeter of the mining lease. The plan for plantation and SMC activities will be prepared and submitted to MoEF & CC before Stage-II Clearance.

Compliance to Condition No. A (5)

In compliance to this condition a scheme has been approved by RCCF Koraput with total financial outlay of **42,38,92,861/- (Rupees Fourty Two Corers Thirtty Eighty lakhs Ninety Two thousand Eight hundred Sixty One only)** (Copy of the approved scheme enclosed). NALCO do hereby undertake to implement the approved scheme for gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 meter from outer perimeter of the mining lease.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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CORPORATE OFFICE

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वेबसाइट Website: www.nalcoindia.com



e-PayOrder Details

e-PayOrder Number AOJ6737088
 Debit Status Success
 Scheduled Time 20-May-2023 [04:06 PM] IST

20-May-2023

ORISSA CAMPA MINISTRY OF ENVIRONMENT & FORESTS, GO

Forty Six Crores Eighty Four Lakhs Fifty

46,84,58,003.00

Eight Thousand Three only

00000010044880013

SFTPH2HUploader
Maker

PURNA CHANDRASEKHAR GUMMADI
Authorizer 1

PADHI8656
Authorizer 2

"AOJ6737088"

CMP00000000655060185

Counterfoil Description 10044880013

Transaction Type Fund Transfer

Debit Account Details

Account No.	Branch	Amount
00000010044880013	09817	46,84,58,003.00

Credit Account Details

Beneficiary Name	Branch	Account	IBAN/IFSC	Amount	Status
150825829981848	ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	150825829981848 / ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	00000 UBIN0996335	46,84,58,003.00	Success

Print Close

Date	Narration	Debit	Credit
------	-----------	-------	--------

20-	May-		
2023	TO TRANSFER INB RTGS UTR NO: SBINR12023052050478599 ORISSA CAMPA MINISTRY OF ENVIRONMEN	46,84,58,003.00	
(20-	May-	2023)	

AGENCY COPY	
 	
NEFT / RTGS CHALLAN for CAMPA Funds	
Date : 16-05-2023	
Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981848
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address.	Nalco Bhawan, P/1, Nayapalli BhubaneswarKhordha
Amount(in Rs)	468458003/-
Amount in Words :Forty-Six Crore Eighty-Four Lakh Fifty-Eight Thousand and Three Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981848 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
<ul style="list-style-type: none"> 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 : 16-05-2023	
Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981848
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address:	Nalco Bhawan, P/1, Nayapalli Bhubaneswar Khordha
Amount(in Rs)	468458003/-
Amount in Words :Forty-Six Crore Eighty-Four Lakh Fifty-Eight Thousand and Three Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981848 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
<ul style="list-style-type: none"> 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

UNDERTAKING

ANNEXURE-A-VI

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (6)

The User Agency shall prepare a list of existing village tanks and other water bodies with GPS coordinates located within five km from the mine lease boundary. This list is to be duly verified by the concerned Divisional Forest Officer. The User Agency shall regularly undertake desilting of these village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies. A detailed approved plan for desilting of identified ponds and water bodies to be prepared in consultation with forest department and shall be submitted to MoEF & CC before Stage-II approval.

Compliance to Condition No. A (6)

In compliance to this condition a scheme has been prepared by Nalco amounting to **Rs. 5,56,901/- (Rupees Five lakhs Fifty Six thousand Nine Hundred One only)** & submitted to the office of DFO Koraput for their scrutiny & its approval by RCCF Koraput. Nalco do hereby undertake to implement the approved scheme for desilting of village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies at the project cost.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-VII (i(a))

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (7.i)

Safety Zone Management: Following activities, at project cost, shall be undertaken by the user agency for the management of safety zone as per relevant guidelines issued by the Ministry's guidelines:

(i) User agency shall ensure demarcation of safety zone (7.5 meter strip all along the inner boundary of the mining lease area), and its fencing, protection and regeneration by erecting adequate number of 6 feet high RCC boundary pillars inscribed with DGPS coordinates with barbed wire fencing and deploying adequate number of watchers under the supervision of the State Forest Department;

Compliance to Condition No. A (7.i)

In compliance to this condition NALCO undertake to demarcate the safety zone (7.5 meter strip all along the inner boundary of the mining lease area), and its fencing, protection and regeneration by erecting adequate number of 6 feet high RCC boundary pillars inscribed with DGPS coordinates with barbed wire fencing and deploying adequate number of watchers under the supervision of the State Forest Department;

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-VII (i(b))

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (7.ii)

(ii) Boundary of the safety zone of the mining lease, adjacent to habitation/roads, should be properly fenced by the user agency;

Compliance to Condition No. A (7.ii)

In compliance to this condition NALCO undertake to fence the boundary of the safety zone of the mining lease, adjacent to habitation/roads.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE-A-VII (i(c))

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (7.iii)

(iii) Safety zone shall be maintained as green belt around mining lease and to ensure dense canopy in the area, regeneration shall be taken up in this area by the user agency at project cost under the supervision of the State Forest Department;

Compliance to Condition No. A (7.iii)

In compliance to this condition NALCO undertake that the safety zone shall be maintained as green belt around mining lease and to ensure dense canopy in the area, regeneration shall be taken up in this area at project cost under the supervision of the State Forest Department.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) /c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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नालको भवन, नयापल्ली, भुवनेश्वर-751 061, भारत

फोन Phone: (EPABX) (0674) 2301988, 2301999, 2300013, 2300976, 2301550, 2303233

फैक्स Fax: (0674) 2301290, 2300580, 2300740, 2300640 & 2300246

National Aluminium Company Limited

(A Government of India Enterprise)

CORPORATE OFFICE

NALCO BHAVAN, Nayapalli, Bhubaneswar-751 061; INDIA

वेबसाइट Website: www.nalcoindia.com

UNDERTAKING

ANNEXURE-A-VII (ii)

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (7.ii)

(iv) Afforestation on degraded forest land to be selected elsewhere, measuring one and a half times the area under safety zone, shall also be done at the project cost under the supervisions of the State Forest Department. The degraded forest land (DFL) so selected will be informed to the MoEF & CC with shape files before Stage-II approval and Afforestation will be done within three years from the date of Stage-II clearance and maintained thereafter in accordance with the approved Plan in consultation with the State Forest Department; and

Compliance to Condition No. A (7.ii)

The area of 36 Ha has been selected in Rabalpadu DPF in Koraput forest division against 1.5 times area of the safety zone involved in Pottangi Bauxite mines. Necessary schemes has been approved by RCCF, Koraput and the required fund has been deposited by Nalco amounting to **Rs.3,11,58,035/-**.

Place: Bhubaneswar

Date:


Authorized Signatory
K. K. Mishra
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

नालको भवन, नयापल्ली, भुवनेश्वर-751 061, भारत

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वेबसाइट Website: www.nalcoindia.com



e-PayOrder Details

e-PayOrder Number AOJ6737088
 Debit Status Success
 Scheduled Time 20-May-2023 [04:06 PM] IST

20-May-2023

ORISSA CAMPA MINISTRY OF ENVIRONMENT & FORESTS, GO

Forty Six Crores Eighty Four Lakhs Fifty
 Eight Thousand Three only

46,84,58,003.00

00000010044880013

"AOJ6737088"

SFTPH2HUploader
 Maker

PURNA CHANDRASEKHAR GUMMADI
 Authorizer 1

PADHIB656
 Authorizer 2

CMP00000000655060185

Counterfoil Description 10044880013

Transaction Type Fund Transfer

Debit Account Details

Account No.	Branch	Amount
00000010044880013	09817	46,84,58,003.00

Credit Account Details

Beneficiary Name	Branch	Amount	Credit Status
150825829981848	ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	150825829981848 / ORISSA CAMPA MINISTRY OF ENVIRONMENT FORESTS, GO	00000 UBIN0996335 46,84,58,003.00 Success

[Print](#) [Close](#)

Date	Value	Narration	Debit	Credit
------	-------	-----------	-------	--------

20-	May-	TO TRANSFER		
2023	(20-	INB RTGS UTR NO: SBINR12023052050478599		46,84,58,003.00
May-	2023)	ORISSA CAMPA MIINISTRY OF ENVIRONMEN		

AGENCY COPY	
  	
NEFT / RTGS CHALLAN for CAMPA Funds	
Date : 16-05-2023	
Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981848
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address.	Nalco Bhawan, P/1, Nayapalli BhubaneswarKhordha
Amount(in Rs)	468458003/-
Amount in Words :Forty-Six Crore Eighty-Four Lakh Fifty-Eight Thousand and Three Rupees Only	
NEFT/RTGS to be made as per following details;	
Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981848 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	
  	
NEFT / RTGS CHALLAN for CAMPA Funds	
Date : 16-05-2023	
Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981848
MoEF/SG File No.	8-17/2022-FC
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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

UNDERTAKING

ANNEXURE-A-VIII

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (8)

The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;

Compliance to Condition No. A (8)

In compliance to this condition NALCO do hereby undertake that the cost of felling of trees shall be deposited by NALCO as per the demand raised and received from the State Forest Department.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

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फैक्स Fax: (0674) 2301290, 2300580, 2300740, 2300640 & 2300246

National Aluminium Company Limited

(A Government of India Enterprise)

CORPORATE OFFICE

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वेबसाइट Website: www.nalcoindia.com

UNDERTAKING

ANNEXURE-A-IX

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (9)

Site Specific Wildlife Management Plan to mitigate the impact of project on wildlife of the area shall be prepared by the state Government in consultation with the PCCF & Chief Wildlife Warden of State at project cost and an approved copy of the same along with detail of deposition of funds into the CAMPA account shall be submitted to the Ministry along with Stage-I compliance

Compliance to Condition No. A (9)

In compliance to this condition a plan has been approved by PCCF of Forests (Wildlife) & Chief Wildlife Warden, Odisha, Bhubaneswar with total financial outlay of **Rs. 14,35,62,100/- (Rupees Fourteen crore thirty five lakhs Sixty two Thousand One Hundred Only)**.

Place: Bhubaneswar

Date:


Authorized Signatory
K. K. P. S. G.
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
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ANNEXURE - A-V

NATIONAL ALUMINIUM CO LTD
NALCO BHAWAN P-1 NAYAPALLI BHUBHANESWAR

PAYMENT ADVICE

Rs 14.35 Cr
Payment to CAMPA.
1000
3.4.2023

To
ORISSA CAMPA MINISTRY OF ENVIRONMENT & FORESTS GO
NEWDELHI,
Delhi

Dear Sir/Madam/Messers

The following payment(s) have been initiated through SBI CMP in favour of you

UTR NO	AMOUNT(INR)	DATE	LINKAGE FIELD	E-CHEQUE NO.	CMP REFERENCE NO.
SBINR12023040341586728	14 35 62 100 00	03-04-2023	51-2017/Payment to CAMPA	AOIM36555600001	CMP00000000629675960

Your Bank Account No 150825829981298

Your Bank IFSC Code UBIN0996335

You are requested to kindly check your Bank Account, as above and please acknowledge the receipt of the payment.

For NATIONAL ALUMINIUM CO LTD

Authorised Signatory

This is Computer generated advice and does not require any Signature

Incase of any query, please contact your Manager-Incharge/Payroll Administrator.

AGENCY COPY

यूनियन बैंक Union Bank of India
आन्ध्र प्रदेश
आन्ध्र प्रदेश
Corporation

NEFT / RTGS CHALLAN for CAMPA Funds
Date : 30-03-2023

Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981298
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address.	Nalco Bhawan, P/1, Nayapalli BhubaneswarKhordha
Amount(in Rs)	143562100/-

Amount in Words Fourteen Crore Thirty-Five Lakh Sixty-Two Thousand One Hundred Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981298 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
आन्ध्र प्रदेश
आन्ध्र प्रदेश
Corporation

NEFT / RTGS CHALLAN for CAMPA Funds
Date : 30-03-2023

Agency Name.	NATIONAL ALUMINIUM COMPANY LIMITED
Application No.	5829981298
MoEF/SG File No.	8-17/2022-FC
Location.	ORRISA
Address:	Nalco Bhawan, P/1, Nayapalli Bhubaneswar Khordha
Amount(in Rs)	143562100/-

Amount in Words Fourteen Crore Thirty-Five Lakh Sixty-Two Thousand One Hundred Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	150825829981298 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

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

UNDERTAKING

ANNEXURE-A-X

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (10)

State Government shall complete settlement of rights, in term of the Scheduled Tribes and Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, if any, on the forest land to be diverted and submit the documentary evidence, along with compliance of Stage-I approval, as prescribed by this Ministry's letter No. 11-9/1998-Fc (Pt.) dated 03.08.2009 read with 05.07.2013, in support thereof

Compliance to Condition No. A (10)

In compliance to this condition, the certificate in support of this has been issued by the Collector, Koraput vide letter No. 3122/21 dtd. 11.11.2021. (Copy enclosed as Annex-3)

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

नालको भवन, नयापल्ली, भुवनेश्वर-751 061, भारत

फोन Phone: (EPABX) (0674) 2301988, 2301999, 2300013, 2300976, 2301550, 2303233

फैक्स Fax: (0674) 2301290, 2300580, 2300740, 2300640 & 2300246

National Aluminium Company Limited

(A Government of India Enterprise)

CORPORATE OFFICE

NALCO BHAVAN, Nayapalli, Bhubaneswar-751 061; INDIA

वेबसाइट Website: www.nalcoindia.com

F. No. IA-J-11015/8/2018-IA-II(M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

ANNEXURE - 3

3rd Floor, Vayu Wing,
Indira Paryavaran Bhavan,
Jor Bagh Road, Aliganj,
New Delhi-110 003

Dated: 30th June, 2023

To,

M/s National Aluminium Company Limited (NALCO),
(A Government of India Enterprise)
Corporate Office, NALCO Bhavan,
Nayapalli, Bhubaneswar - 751061,
Odisha.

Sub: Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha - Environmental Clearance (EC) reg.

Sir,

This has reference to the online proposal no. IA/OR/MIN/416699/2023 dated 3rd February, 2023 for mining of Bauxite in Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha.

2. The details of the project as ascertained from the documents submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:
- The mine lease area is located between Latitude 18°34'31.130"N to 18°37'06.481" N and Longitude 82°57'08.053"E to 82°59'49.967"E. The mine lease area falls under the Survey of India Toposheet No E44 K/14, E44K/15, E44L/2, and E44 L/3 and falls in Seismic Zone-II.
 - The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at the Central level.
 - The proposal was initially considered in the EAC (Non-Coal Mining) meeting held during 23-25 Sep, 2020 wherein the EAC after detailed deliberations deferred the proposal. Then, the Project Proponent submitted the information on 07.04.2021 and accordingly the proposal was again considered in the EAC meeting held during 28th June and 1st July 2021. During the EAC meeting, the EAC noted that the total lease area of 697.979 ha is a forest land and Project Proponent has not obtained the Stage-I Forest Clearance yet. Hence, the Committee was of the view that the proposal cannot

be considered and PP shall approach the Ministry after obtaining Stage-I Forest Clearance. Therefore, the Committee returned the proposal in present form. Now, the Project Proponent has submitted a fresh proposal for Environmental Clearance (EC) along with the 'in principle' approval granted by the MoEF&CC vide F.No: 8-17/2022-FC dated 10.01.2023 under Section - 2 of the Forest (Conservation) Act, 1980 for non-forestry use of 697.979 ha of forest land for Pottangi Bauxite Mining Lease in village Pottangi of Koraput Forest Division under Pottangi Tahasil of Koraput District, Odisha by M/s NALCO Ltd. Accordingly, the proposal was reconsidered in the 11th EAC (Non-Coal Mining) meeting held during 1-2 March, 2023 wherein the EAC after detailed deliberations deferred the proposal for want of requisite information. The Project Proponent submitted the information on 28.04.2023 in Parivesh portal. Accordingly, the proposal was considered in the 15th EAC (Non-Coal Mining) meeting held during 30-31 May, 2023.

iv. The Project Proponent obtained the Terms of Reference (ToR) vide ToR Lr. No: J-11015/08/2018-IA.II(M) dated 28.06.2018 and ToR was valid upto 27.06.2021.

v. Lease Details:

- a) The State Govt. vide letter No.5734/SM, dated 12.7.2016 have issued terms & conditions for grant of mine lease in favour of M/s NALCO for Bauxite over an area of 1738.04 ha in Pottangi Tahasil of Koraput District reserved in its favour under section 17A(1A) of MMDR Act,1957 vide Notification No. GSR 314(E), dated 27.04.2007 and No. GSR 411(E), dated 27.04.2017, both issued by the Ministry of Mines. The said terms and conditions have been duly accepted by PP vide its letter No. NBC/ED(R&T)/1556/2016 dated 27.12.2016.
- b) Then, the PP has requested for reduction of the area from 1738.04 Ha to 697.979 Ha vide its letter No.CMD/269 dated 30.10.2017.
- c) Thereafter, the Ministry of Mines vide Notification No. GSR 255(E), dated 21.03.2018, in supersession of its earlier notifications has reserved an area of 697.979 ha under section 17 A (1A) of MMDR Act,1957 for undertaking prospecting or mining operation through M/s NALCO till 6.04.2022.
- d) Therefore, the State Government, in supersession of this letter No.5734/SM dated 12.07.2016 have issued fresh LOI over the reduced area of 697.979 Ha for grant of ML vide Letter No. 3794/SM, Bhubaneswar dated 14.05.2018. The issued Lol was accepted by the PP on 14.05.2018.
- e) Further, PP submitted that the State Govt. vide Order no: 2391/SM, dated 15.03.2022 have extended the reservation period by one year i.e. upto 25.04.2023 u/s 17A of the MMDR (Amendment) Act, 2021 in respect of this mines with the recommendation of Central Govt. vide letter dated 04.03.2022.
- f) Then, the Govt. of Odisha, Dept. of Steel and Mines vide Order No: 1029/SM-MC2-MC-0055-2020/SM, Bhubaneswar dated 02.02.2023 have granted the mining lease for a period of 50 years.

vi. Land Use/Land Cover of the Mine Lease Area:

Forest land	697.979 ha
Total Mining lease area (MLA)	697.979 ha

vii. Mining Plan details:

Mining Plan approved by Indian Bureau of Mines	Letter No.	MP/FM/13-ORI/BHU/2018-19
	Date	27.07.2018
	Mineral	Bauxite
	ML area	697.979 ha
	Validity	5 years
Mining Parameters	Quantitative Description	
Method of Mining	Open cast mechanized mining	
Bench Height	8m	
Bench Width	15-200m	
Geological Reserves	111.794 MT	
Mineable Reserves	110.400 MT	
Life of mine	32 years	
Overall pit slope	45°	
ROM Output size	-150 mm	
Action plan and timeline for installation and commission of crusher of 900 TPH.	<p>The Project Proponent has submitted that after obtaining EC, Stage-II FC and CTE, activities for Lease deed agreement will be completed by Dec-2023. Then, the handover of the entire Mining Lease area (Total Forest Land) will be completed with issuance of surface right by Collector. All these activities will be completed by Feb-2024.</p> <p>Then the mine development activities along Installation & commissioning of crusher will be taken up. After completion of establishment of required machinery (Over Land Conveyor, HEMM Machines, Crusher etc) by mid of the year 2025, Project activities will be completed. After obtaining the mines opening permission from DDM Mines, mining activity will commence by obtaining CTO.</p>	
Transportation details	The mined out bauxite will be transported through dumpers to crushers unit (900tph) for crushing to 150mm size and this crushed ore will be sent by conveyor mode of transportation to NALCO's Aluminium refinery located at Damanjodi.	
Dumper's capacity	50 and 55 Ton	
Topsoil	Topsoil dumping will be in stages of 8m over an area of 1.40 ha during first year with a designed capacity of 1.38 lakh tons. During second year dumping will be over an area of 1.37 ha with a designed capacity of 1.35 lakh tons. During third year it will be over an area of 2.11 ha from with a designed capacity of 6.41 lakh tons.	
Waste generation	Waste dumping will be in stages of 08 m over an area of 2.44 ha. In first year with a designed capacity of 1.60 lakh tons. During second year dumping will be over an area of 2.41 ha with a designed capacity of 2.46 lakh tons. During third year it will be over an area of 2.02 ha from with a designed capacity of 2.12 lakh tons.	
Ground water level	140-150m bgl (Min. 1226 mRL & Max. 1216 mRL)	
Depth of mining	40m bgl	

Ground water intersection	No
---------------------------	----

viii. Water requirement:

Total water requirement	700KLD	Mines road sprinkling	525.0 KLD
		Industrial (mining activity) use	75.0 KLD
		Green belt	60.0 KLD
		Drinking and Sanitation	40.0 KLD
Source	Bore wells in the banks of the Kunduli Nala or other nalas in the periphery of Pottangi Mines		
Permission	<p>Application vide 21-4/2509/OR/MIN/2020; date: 05.07.2020 submitted to CGWA for obtaining NOC/Permission for abstraction of ground water.</p> <p>After detailed hydrological survey, it was found that required 700 KLD surface water available near project site (Totajhola Nallah located at 1.4 km aerial distance), necessary approval from Industrial Promotion and Investment Corporation of Odisha Limited (IPICOL), Government of Odisha has been obtained. Single window permission for 0.286 cu.sec (700 KLD) surface water withdrawal received from IPICOL, Govt. of Odisha.</p> <p>Further, PP submitted that the proposal of NALCO to make application for 0.286 cu.sec water for Pottangi Bauxite mines was discussed in 220th SLFC meeting held on 26th April, 2022 and SLFC has recommended 0.286 cu.sec of water as sought by the NALCO. Hence NOC from CGWA is not applicable.</p>		

ix. Nearest village / town/ highway/railway station / water bodies/Forest:

Particulars	Distance	Direction
Pottangi Village	1.2 km	SE
Damanjodi Town	18 km	NNW
Koraput District Head quarter	40 km	NW
Damanjodi Railway Station	18 km	NNW
National Highway NH-43	1.5 km	S
Water bodies		
Totajhola Nala	0.5 km	SE
Pottangi Nala	2.0 km	S
Kunduli Nala	3.5 km	N
Reserve Forest		
Rallagedda RF	9.1 km	S
Tangini RF	9.7 km	SE

x. Presence of Environmentally Sensitive areas in the study area:

Forest Land/Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter/ Remarks
Forest Land	Yes	The Project Proponent has submitted the copy of the 'in principle' approval granted by the MoEF&CC vide F.No: 8-17/2022-FC dated 10.01.2023 under Section - 2 of the Forest (Conservation) Act, 1980 for non-forestry use of 697.979 ha of forest land for Pottangi Bauxite Mining Lease in village

		Pottangi of Koraput Forest Division under Pottangi Tahasil of Koraput District, Odisha by M/s NALCO Ltd.
National park	No	The Project Proponent has submitted the letter from the Office of the Principal CCF (Wildlife) & Chief Wildlife Warden vide Lr no. No.5090/7WL-FD & WLC-61/2022 dated 26.04.2023 stating that there is no National Parks, Biosphere Reserve, Wildlife Corridor, Tiger/Elephant Reserve in the study area of 10km radius of mining lease area. PP also submitted the 10 km radius map authenticated by Principal CCF (Wildlife) & Chief Wildlife Warden.
Wildlife Sanctuary	No	
Biosphere Reserves/Tiger Reserves	No	
Wildlife Corridors	No	
Schedule-I species	Yes	Peafowl (<i>Pavo cristatus</i>) and Sloth Bear (<i>Melursus ursinus</i>) PP submitted the list of Flora and Fauna duly authenticated by Divisional Forest Officer, Koraput Division from Office of The Divisional Forest Officer-Cum-Wildlife Warden, Koraput Forest Division vide letter no 186 dated 07.01.2021.
Wildlife Conservation Plan	Yes	PP submitted that as per the authenticated list of flora fauna duly signed by the DFO Koraput, Peafowl (<i>Pavo cristatus</i>) and Sloth Bear (<i>Melursus ursinus</i>) have been identified as Schedule – 1 species in Koraput area. Accordingly, a conservation plan for the protection and conservation of Peafowl and Sloth bear in Koraput area is prepared and submitted to Divisional Forest Officer, Koraput Division on 17.02.2021 for approval. Then, Power point presentation made on 30.12.2022 to PCCF, Wildlife, Odisha. Revised SSWLCP has been submitted to PCCF, Bhubaneswar by the Office of the Regional Chief Conservator of Forest, Koraput Circle on 15.02.2023, with revised cost of Rs. 14.35 Cr.
FRA certificate issued by the District Collector		The Project Proponent has submitted the letter from the Office of the District collector vide no. 3122/21 dated 11-11-2021 certifying that 697.979 ha of forest land proposed to be diverted in favour of NALCO for Pottangi Bauxite Mines in Koraput District falls within jurisdiction of Malkarbandha, Sipaiput, Erasantaguda, Katraguda, Pottangi, Sisaguda, Medamgandhi, Thuria and Karanjaguda villages in Pottangi Tahasil. It is further certified that,

	<ol style="list-style-type: none"> 1. The complete process for identification and settlement of rights under the FRA has been carried out for the entire 697.979 hectares of forest area proposed for diversion. 2. The proposal for such diversion (with full details of the project and its implications, in vernacular/local language) have been placed before each concerned Grama Sabha of forest-dwellers, who are eligible under the FRA. 3. That each of concerned Gram Sabhas, has certified that all formalities / processes under the FRA 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 proposed diversion. 4. 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. 5. The diversion of forest land for facilities managed by the Government as required under section 3(2) of the FRA have been completed that the Gram Sabhas have given their consent to it. 6. The rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA.
<p>Action Plan to monitor the movement of wildlife in the vicinity of the mine lease area</p>	<p>The Project Proponent has submitted that to identify the effect of wildlife movement the following steps will be taken to meet the objective of action plan to monitor the movement of wildlife</p> <ol style="list-style-type: none"> i. Development of the wildlife movement track for monitoring the wildlife movement around the mine lease area. ii. Engagement and incorporation of traditional knowledge iii. Document and mitigate potential effects of mine activities on wildlife. iv. Implementation of operational practices that mitigate disturbance to wildlife and wildlife habitat. <p>PP proposed the below measures to avoid effect of mine to wildlife during their movement at Pottangi mine lease area.</p>

- i. Non-Vehicle Wildlife Incidents and Mortalities
- ii. Vehicle-Wildlife Collisions
- iii. Waste Management
- iv. Open Pits

PP submitted that they will implement below mitigation practices to minimize potential interactions between mine related traffic and wildlife:

- i. Providing right-of-way for wildlife;
- ii. Speed limits to be posted and enforced, speed limits are 60 kilometers per hour (km/h) along haul roads, and 20 km/h and 40 km/h along other roads;
- iii. Vehicles encountering wildlife on roads are required to stop and communicate the presence of wildlife on the road(s) to the Environment Department.
- iv. Roads will be closed temporarily, and these closures are communicated site-wide when wildlife are in the vicinity of the road;
- v. Wildlife crossing signs to be erected at sections of road where wildlife crossings are frequent, or in areas where animals reside near roads; o
- vi. A barrier fence is maintained around the road.
- vii. A fence is maintained around Misery Camp to prevent wildlife from entering.

In addition to the education and awareness programs for new and current employees the following measures will be included:

- i. More frequent burning of camp waste in order to reduce chance of wildlife encounters;
- ii. Juice boxes are no longer to be used;
- iii. Signs have been added in lunchrooms and additional labels have been added to waste bins to indicate proper waste disposal;
- iv. Removal of bear proof outdoor waste bins.

Solar electric Fencing will be installed around the immediate open pit area. At high risk areas, heavy weight orange barrier fencing to be initiated to mitigate hazards to other heavy wildlife.

Further, PP submitted that a rescue team consisting of 10 persons will be deployed for rescue of animals

abandoned and strayed wild animals found inside the project area, with one hired vehicle and two rescue cages. Anti-poaching and Anti-depredation squad consisting of 10 persons will be deployed who will assist the regular forest staff for protection of wildlife, with one hired vehicle and recharging mobile sets. Around 10 nos of Fire watchers one in each of the villages within the impact area will be engaged for 5 months every year, from the month of February to June for a period of 5 years. These fire watchers will be equipped with firefighting equipment's such as fire extinguishers/blowers, fire resistant dress, water bottle, axe, shoes, etc. A team for tranquilization of animals will be formed at division level, will be adequately trained and required equipment's will be procured. To improve and standardize wildlife monitoring at pottangi mines a series of workshops to be organized. Where NALCO officials, governments, monitoring agencies, and communities will attend the workshop. The workshop focuses will be on results from the monitoring existing programs, and if require additional measure will be proposed towards sustainable growth.

PP also submitted that as per NTCA website there is no tiger corridor passing in the study area and nearest tiger corridor is around 215 km in west direction and nearest National Park(NP) is KangerGhat NP which is 84 km far from the mining lease.

Further, PP submitted the map superimposed on google image showing the distance of Tiger corridor, National Park and Wildlife Sanctuary from the mining lease area.

xi. Green belt/plantation details:

Particulars for Green belt/plantation	Area covered (in Ha)
Proposed area for green belt/plantation	284.11 ha
Total no. of plants	101750 no.s
Budget for green plant & plantation till the end of life of mine	Rs. 30 Cr (Capital) and Rs 3 Cr (Recurring)

xii. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	03.09.2018 to 30.11.2018
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post-monsoon

Predominant wind direction	E and NE (from)																																																																																						
Ambient Air Quality (8 locations)	The Project Proponent reported that the air quality concentrations of PM _{2.5} and PM ₁₀ for all the 8 AAQM stations were found between 21.1 to 38.2 µg/m ³ and 35.8 to 55.4 µg/m ³ respectively. The concentrations of NO ₂ and SO ₂ were found to be in range of 14.3 to 23.2 µg/m ³ and 4.8 to 14.2 µg/m ³ respectively.																																																																																						
Air Quality modeling	<p>The transport of the bauxite/OB within the lease area will be carried out by dumper truck. The maximum incremental Ground Level Concentration due to mining are superimposed on the 98th percentile baseline PM₁₀ and PM_{2.5} concentrations to calculate the likely resultant concentrations after implementation of the proposed mining. The values of resultant GLC at different locations are given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Code</th> <th rowspan="2">Particulars Locations</th> <th colspan="3">Particulate matter (PM₁₀) µg/m³</th> </tr> <tr> <th>Baseline scenario (max)</th> <th>Predicted GLC (max with EMP)</th> <th>Future predicted baseline values (max)</th> </tr> </thead> <tbody> <tr> <td>A2</td> <td>Malkarbandha</td> <td>46.9</td> <td>6.1</td> <td>53</td> </tr> <tr> <td>A3</td> <td>Pottangi</td> <td>55.4</td> <td>1</td> <td>56.4</td> </tr> <tr> <td>A6</td> <td>Matiagurha</td> <td>45.2</td> <td>1</td> <td>46.2</td> </tr> <tr> <td>A7</td> <td>Sharagigurha</td> <td>48.2</td> <td>1</td> <td>49.1</td> </tr> <tr> <td>A8</td> <td>Kunduli</td> <td>53.4</td> <td>1</td> <td>54.4</td> </tr> <tr> <td rowspan="2">NAAQ stds. (2009)</td> <td>24 hourly</td> <td colspan="3">100 µg/m³</td> </tr> <tr> <td>Annual</td> <td colspan="3">60 µg/m³</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Code</th> <th rowspan="2">Particulars Locations</th> <th colspan="3">Particulate matter (PM_{2.5}) µg/m³</th> </tr> <tr> <th>Baseline scenario (max)</th> <th>Predicted GLC (max with EMP)</th> <th>Future predicted baseline values (max)</th> </tr> </thead> <tbody> <tr> <td>A2</td> <td>Malkarbandha</td> <td>32.2</td> <td>3.6</td> <td>35.8</td> </tr> <tr> <td>A3</td> <td>Pottangi</td> <td>38.2</td> <td>0</td> <td>38.2</td> </tr> <tr> <td>A6</td> <td>Matiagurha</td> <td>28.9</td> <td>0</td> <td>28.9</td> </tr> <tr> <td>A7</td> <td>Sharagigurha</td> <td>32.8</td> <td>0</td> <td>32.8</td> </tr> <tr> <td>A8</td> <td>Kunduli</td> <td>36.5</td> <td>0</td> <td>36.5</td> </tr> <tr> <td rowspan="2">NAAQ stds. (2009)</td> <td>24 hourly</td> <td colspan="3">60 µg/m³</td> </tr> <tr> <td>Annual</td> <td colspan="3">40 µg/m³</td> </tr> </tbody> </table>			Code	Particulars Locations	Particulate matter (PM ₁₀) µg/m ³			Baseline scenario (max)	Predicted GLC (max with EMP)	Future predicted baseline values (max)	A2	Malkarbandha	46.9	6.1	53	A3	Pottangi	55.4	1	56.4	A6	Matiagurha	45.2	1	46.2	A7	Sharagigurha	48.2	1	49.1	A8	Kunduli	53.4	1	54.4	NAAQ stds. (2009)	24 hourly	100 µg/m ³			Annual	60 µg/m ³			Code	Particulars Locations	Particulate matter (PM _{2.5}) µg/m ³			Baseline scenario (max)	Predicted GLC (max with EMP)	Future predicted baseline values (max)	A2	Malkarbandha	32.2	3.6	35.8	A3	Pottangi	38.2	0	38.2	A6	Matiagurha	28.9	0	28.9	A7	Sharagigurha	32.8	0	32.8	A8	Kunduli	36.5	0	36.5	NAAQ stds. (2009)	24 hourly	60 µg/m ³			Annual	40 µg/m ³		
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Noise level (8 locations)	Noise levels varied from 50.3 to 54.2 Leq dB(A) during day time and from 40.7 to 43.9 Leq dB(A) during night time.																																																																																						
Water Quality	Parameters	Surface water (2 locations)	Ground water (8 locations)																																																																																				
	pH at 25°C	7.6-7.77	6.5-7.4																																																																																				
	Total Dissolved Solids, mg/l	76-83	65-850																																																																																				
	Chloride as Cl-, mg/l	10-22	10-254																																																																																				

	Total Hardness, mg/l	36-40	-
	DO, mg/l	5.2-5.4	-
	BOD, mg/l	8-12	-
	Fluoride as F, mg/l	0.5	0.5-1.82
Soil quality (9 locations)	Parameters	Observed Values	
	pH	6.4 – 7.1	
	Electrical Conductivity (μ S/cm)	117-163	
	Organic Carbon (%)	0.07-0.47	
	Available Nitrogen as N (Kg/Ha)	157-345	
	Available Phosphorus (Kg/Ha)	12.1-35.8	
	Available Potassium (K)	22-376	
Traffic Study	PP reported that the traffic study was carried out on NH-26 near Pottangi village (connecting Raipur - Balangir - Vizianagaram) which is the main road connecting to proposed project area. As per traffic survey, the no. of PCU's during peak hour is 470 numbers and the Level of service is found to be very good i.e., the V/C ratio is 0.31.		
Ground vibration study nearby operating mine	The Project Proponent has submitted that the nearest running mine of Proposed Pottangi mining lease is Panchpatmali Bauxite Mine by NALCO. PP has submitted the copy of final report on Scientific Study to measure the blast induced ground vibration and its impacts on nearby structures of Panchpatmali Bauxite Mine conducted by Department of Mining Engineering, ISM, Dhanbad during March-2020. During investigation period 8 rounds of blasts comprising of 23 events were analysed.		

xiii. Public Hearing (PH) Details:

Advertisement for PH with date	05.11.2019
Date of PH	17.12.2019
Venue	Mini Stadium, Pottangi
Chaired by	<ul style="list-style-type: none"> i. Sri Deben Kumar Pradhan, OAS (S.A.G), Additional District Magistrate, Koraput ii. Er P Kar, Regional Officer, State Pollution Control Board, Rayagada
Issues raised during PH	Infrastructure development, Employment Opportunities to surrounding local people CSR implementation, and peripheral development.
Budget proposed for addressing issues raised during PH	The Project Proponent has submitted the revised timeline from 5 years to 3 years with a budget of Rs 7.2 Cr to address the concerns of the public hearing. PP earmarked a budget for 1 st year as Rs. 215 L, 2 nd year as Rs. 248 L and 3 rd year as RS. 257 L, totalling to Rs. 720 lakhs.

Additional information (if any)	The Project Proponent has submitted that the solar energy of about 100 kW is proposed to be generated on Roof Top area available on the built-up area (Admin building, Canteen, Vehicle shed etc.). Project Proponent earmarked a budget of Rs 3.5 Cr under EMP budget with a timeline of 2 years.
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xiv. Rehabilitation and Resettlement (R&R)

Particulars	Details
R & R Plan	The Project Proponent has submitted that no human settlements exist in the mine lease area; hence no displacement of any human habitat or any personal property is envisaged.
Additional information (if any)	<p>The Project Proponent has submitted that they will focus on the below mentioned areas towards upgradation of the technologies and skills to enhance the work efficiency as well as quality of the output.</p> <ol style="list-style-type: none"> i. Enhancement of Training Capacities & Technologies ii. Identification of job roles related to mining sector along with definite supply management iii. Engagement of Private players iv. Engagement of States Initiatives v. Quality Training vi. Coordination among skill providing centres vii. Proper designs of Policies viii. CSR approaches. <p>PP also submitted the Skill Development Plan for the Workforce at Pottangi Bauxite Mines, Koraput District, Odisha.</p>

xv. Court case details:

Court Case	The Project Proponent has submitted an undertaking stating that "No Litigation in any court of law" related to the proposal of Pottangi Bauxite Mine, at Pottangi Village & Tehsil, Koraput District, Odisha.
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xvi. Affidavit/Undertaking details:

Project Proponent submitted an Undertaking	The Project Proponent has submitted an Undertaking stating that they hereby certified that the data and information presented in the EIA report is factually correct and they own the contents (information and date) of the EIA report.
Consultant submitted an Undertaking	The EIA/EMP report based on prescribed Terms of Reference issued by MoEF&CC vide Memo No. IA/OR/MIN/69870/2017 dated 28.06.2018 for the proposed Pottangi bauxite mine in Pottangi Village & Tehsil, Koraput Dist., Odisha. In this regard they hereby certified that the EIA/EMP reports prepared by them and data provided by laboratories including thier status of approvals presented in the report is factually correct. The laboratory used for

	analysis of samples is approved by NABL. MoEF&CC under EPA 1986 and rules made there under.
Affidavit as per Ministry's OM dated 30.05.2018	PP submitted the Affidavit in a non-judicial stamp paper of Rs 10 bearing no: 62 AA 720924 dated 17.02.2023 stating that the NALCO hereby undertake to comply with all the statutory requirements and judgement of Hon'ble Supreme Court dated 02.08.2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India and Others.

xvii. Details of the EMP:

Activities	Capital Cost (Rs.In Crores)	Recurring (Rs. In Crores)
Air pollution control	10	1
Water pollution control	30	3
Noise pollution control	5	0.5
Pollution monitoring	20	2
Safety & health	15	1.5
Greenbelt development & Soil conservation measures etc...	30	3
Miscellaneous & Contingency expenses	10	
Total	120	12

EMP budget considered as 8.3% of the Total Project Cost and recurring cost considered 10% of EMP capital cost

xviii. Details of project cost and employment:

Particulars	Budget (Rs. In Crores)
Budget for addressing the Public Hearing issues	Rs 7.2
EMP Cost	Rs 120
Recurring cost for EMP	Rs 12
Project Cost	Rs 1436.9
Employment	229 persons

3. The proposal was considered by the EAC in its meeting held on 30-31 May, 2023. The EAC asked the Project Proponent to submit the annual compliance of the effectiveness of the Wildlife Conservation Plan to the Chief Wildlife Warden. The Project Proponent informed the EAC that budget of Rs 3.5 Cr has been earmarked towards promotion of solar energy. The EAC asked the Project Proponent to explore the possibility of increasing the budget towards promotion of solar energy.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC in its meeting held during 30-31 May, 2023 under the provisions of EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for grant of Environmental Clearance to Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha subject to certain specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

4. The matter was examined in the EAC in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and the undersigned is directed to say that the Ministry of Environment Forest & Climate Change after accepting the recommendation of EAC in its 15th EAC (Non-Coal Mining) meeting held during 30-31 May, 2023 hereby accords Environmental Clearance (EC) to the project for Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha, subject to compliance of the terms & conditions and the environmental safeguards mentioned below: -

A. SPECIFIC CONDITIONS

- i. The Project Proponent shall commence the mining operation only after obtaining Stage-II FC.
- ii. The Project Proponent shall ensure that the production, despatch/ transportation of Bauxite should begin only after the installation and commission of conveyor belt and the same shall be intimated to the Ministry's Integrated Regional Office and the same agreed by project proponent during EAC meeting. Accordingly, SPCB shall not grant Consent to Operate (CTO) till the commission of conveyor belt.
- iii. The transportation of bauxite from the mine to the Alumina refinery plant shall take place through only Conveyor Belt. No transportation through road is allowed.
- iv. The Project Proponent shall conduct the ground vibration study through authorized agencies and the results shall be compared with limiting values prescribed by Directorate General of Mines Safety (DGMS). The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- v. The Project Proponent shall monitor the ground induced blasting vibrations for every blast and the results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS). PP shall ensure that the values of "peak particle velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time. The data needs to be maintained and submitted along with the six monthly compliance report.
- vi. The Project Proponent shall strictly adhere to the action plan to monitor the movement of wildlife in the vicinity of the mine lease area.
- vii. The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict.

- viii. The Project Proponent needs to submit the annual compliance of the effectiveness of the Wildlife Conservation Plan to the Chief Wildlife Warden.
- ix. The Project Proponent needs to take adequate measures for protection of seasonal nallahs in the vicinity of the mine lease area. The natural water bodies and or streams which are flowing in and around the mine lease area should not be disturbed.
- x. Regular monitoring on surface water flow, turbidity & water quality shall be carried out and report shall be submitted quarterly to the Ministry's Integrated Regional Office.
- xi. The Project Proponent should install the continuous ambient air quality monitoring stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- xii. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Integrated Regional Office.
- xiii. The Project Proponent shall explore the possibility of increasing the budget towards promotion of solar energy.
- xiv. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of at least 40 m throw shall be installed at various locations in the mine area.
- xv. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher/DG set shall be carried out at periodic intervals. Continuous noise monitoring meters shall be established inside and outside of the crusher.
- xvi. The Project Proponent needs to complete the entire 7.5 m peripheral plantation and safety barrier plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office.

- xvii. The budget of Rs 7.2 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xviii. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- xix. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 120.0 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xx. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- xxi. The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.
- xxii. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxiii. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- xxiv. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The

preference shall be given to the local people for the purpose of employment and PP shall strictly adhere to the skill development plan for the work force.

- xxv. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xxvi. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Integrated Regional Office.

B. STANDARD CONDITIONS

I. Statutory compliance

- 1) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India &Ors before commencing the mining operations.
- 3) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- 5) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 6) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.

7) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.

8) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

9) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

10) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

11) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.

12) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

13) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

14) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

15) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.

16) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

17) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

18) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

19) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.

20) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining plan

21) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).

22) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

VI. Land reclamation

23) The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.

24) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local

species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

25) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

26) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.

VII. Transportation

27) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].

28) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered

to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

29) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.

30) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

31) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.

IX. Public hearing and human health issues

32) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

X. Corporate Environment Responsibility (CER)

33) The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office

Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.

XI. Miscellaneous

34) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

35) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

36) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.

37) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.

38) The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.

39) In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

40) The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

41) Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

5. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.

5. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. This issues with the approval of Competent Authority.

Yours faithfully,
Pankaj Verma
(Pankaj Verma)
Scientist 'E'

Copy to:

- i. **The Secretary**, Ministry of Mines, Government of India Shastri Bhawan, New Delhi.
- ii. **The Chief Secretary**, Government of Odisha, Secretariat, Bhubaneswar.
- iii. **The Secretary**, Department of Environment, Government of Odisha, Secretariat, Bhubaneswar.
- iv. **The Secretary**, Department of Mines and Geology, Government of Odisha, Secretariat, Bhubaneswar.
- v. **The Secretary**, Department of Forests, Government of Odisha, Secretariat, Bhubaneswar.
- vi. **The Secretary**, Department of Steel and Mines, Government of Odisha, Secretariat, Bhubaneswar.
- vii. **The Member Secretary**, Odisha Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
- viii. **The Deputy Director General of Forests (C)**, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharapur, Bhubaneswar – 751023.
- ix. **The Chief Wildlife Warden**, Prakurti Bhawan, 5th floor, BDA Apartment, Nilakanthanagar, Nayapalli, Bhubaneswar-751012, Odisha.
- x. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- xi. **The Controller General**, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440001.
- xii. **The Member Secretary**, Central Ground Water Board, Ministry of Agriculture and Irrigation, 12/1 Jam Nagar House, Shahjahan road, New Delhi 110011.
- xiii. **The District Collector**, Koraput District, Govt. of Odisha.
- xiv. **Guard File.**
- xv. **PARIVESH Portal.**

Pankaj Verma
(Pankaj Verma)
Scientist 'E'

UNDERTAKING

ANNEXURE-A-XI

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. A (11)

The compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).

Compliance to Condition No. A (11)

In compliance to this condition, the compliance report will be uploaded on e-portal (<https://parivesh.nic.in/>).

Place: Bhubaneswar

Date:


Authorized Signatory
K. K. Prasad
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
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(A Government of India Enterprise)

CORPORATE OFFICE

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वेबसाइट Website: www.nalcoindia.com

UNDERTAKING

ANNEXURE-B-I

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (1)

Legal status of the diverted forest land shall remain unchanged;

Compliance to Condition No. B (1)

In compliance to this condition NALCO undertake that the Legal Status of the forest land shall remain unchanged.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) i/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-II

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (3)

At the time of payment of the Net Present Value (NPV) at the present rate, the user agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;

Compliance to Condition No. B (3)

In compliance to this condition, NALCO undertake to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) i/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-III

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (4)

Trees should be felled in phased manner as per the requirement in the approved Mining Plan with prior permission of DFO;

Compliance to Condition No. B (4)

In compliance to this condition, Nalco do hereby undertake that tree felling shall be done in phased manner as per the requirement in the approved Mining Plan with prior permission of DFO, Koraput.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) /c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-IV

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (5)

The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.

Compliance to Condition No. B (5)

In compliance to this condition, Nalco do hereby undertake that all possibility shall be explored for translocation of maximum number of trees identified to be felled and any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.

Place: Bhubaneswar

Date:


Authorized Signatory
R. K. P. Singh
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-V

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (6)

The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the concern Addl. Principal Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities area satisfactorily executed.

Compliance to Condition No. B (6)

In compliance to this condition, Nalco do hereby undertake that mining shall be done in a phased manner after taking due care of reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by NALCO from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980. in the concerned State Government and the concerned Regional Office of the Ministry.

Nalco do hereby further undertake that if it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the concern Addl. Principal Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities area satisfactorily executed. NALCO strictly agreed to this conditions.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-VI

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (7)

The User Agency shall comply with the Hon'ble Supreme Court order on re-grassing, and re-grass the mining area and any other areas which may have been disturbed due to mining to restore them to a condition which is fit for growth of fodder, flora, fauna, etc. in a timely manner;

Compliance to Condition No. B (7)

In compliance to this condition, Nalco do hereby undertake that NALCO shall comply with the Hon'ble Supreme Court order on re-grassing, and re-grass the mining area and any other areas which might have been disturbed due to mining to restore them to a condition which is fit for growth of fodder, flora, fauna, etc. in a timely manner.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) /c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-VII

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (8)

Period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended and the Rules framed there-under.

Compliance to Condition No. B (8)

In compliance to this condition, Nalco do hereby undertake that the period of diversion of the said forest land shall be co-terminus with the period of the mining lease granted under the Mines and Minerals (Development and Regulation) Act, 1957 or Rules framed there under.

Place: Bhubaneswar

Date:


Authorized Signatory
K. K. Mishra
Executive Director (Project-Mines) i/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

नालको भवन, नयापल्ली, भुवनेश्वर-751 061, भारत

फोन Phone: (EPABX) (0674) 2301988, 2301999, 2300013, 2300976, 2301550, 2303233

फैक्स Fax: (0674) 2301290, 2300580, 2300740, 2300640 & 2300246

National Aluminium Company Limited

(A Government of India Enterprise)

CORPORATE OFFICE

NALCO BHAVAN, Nayapalli, Bhubaneswar-751 061, INDIA

वेबसाइट Website: www.nalcoindia.com

ANNEXURE- B-VIII

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (9)

The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act,1986, if required;

Compliance to Condition No. B (9)

MoEF & CC Govt. of India vide their letter no. F.No.IA-J-11015/8/2018-IA-II(M) dated.30.06.2023 granted the Environmental Clearance (EC) the copy is enclosed as Annx-3.

Place: Bhubaneswar

Date:


Authorized Signatory
R. K. Patra
Executive Director (Project-Mines) /c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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F. No. IA-J-11015/8/2018-IA-II(M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

ANNEXURE - 3

3rd Floor, Vayu Wing,
Indira Paryavaran Bhavan,
Jor Bagh Road, Aliganj,
New Delhi-110 003

Dated: 30th June, 2023

To,

M/s National Aluminium Company Limited (NALCO),
(A Government of India Enterprise)
Corporate Office, NALCO Bhavan,
Nayapalli, Bhubaneswar - 751061,
Odisha.

Sub: Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha - Environmental Clearance (EC) reg.

Sir,

This has reference to the online proposal no. IA/OR/MIN/416699/2023 dated 3rd February, 2023 for mining of Bauxite in Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha.

2. The details of the project as ascertained from the documents submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:
- The mine lease area is located between Latitude 18°34'31.130"N to 18°37'06.481" N and Longitude 82°57'08.053"E to 82°59'49.967"E. The mine lease area falls under the Survey of India Toposheet No E44 K/14, E44K/15, E44L/2, and E44 L/3 and falls in Seismic Zone-II.
 - The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at the Central level.
 - The proposal was initially considered in the EAC (Non-Coal Mining) meeting held during 23-25 Sep, 2020 wherein the EAC after detailed deliberations deferred the proposal. Then, the Project Proponent submitted the information on 07.04.2021 and accordingly the proposal was again considered in the EAC meeting held during 28th June and 1st July 2021. During the EAC meeting, the EAC noted that the total lease area of 697.979 ha is a forest land and Project Proponent has not obtained the Stage-I Forest Clearance yet. Hence, the Committee was of the view that the proposal cannot

be considered and PP shall approach the Ministry after obtaining Stage-I Forest Clearance. Therefore, the Committee returned the proposal in present form. Now, the Project Proponent has submitted a fresh proposal for Environmental Clearance (EC) along with the 'in principle' approval granted by the MoEF&CC vide F.No: 8-17/2022-FC dated 10.01.2023 under Section - 2 of the Forest (Conservation) Act, 1980 for non-forestry use of 697.979 ha of forest land for Pottangi Bauxite Mining Lease in village Pottangi of Koraput Forest Division under Pottangi Tahasil of Koraput District, Odisha by M/s NALCO Ltd. Accordingly, the proposal was reconsidered in the 11th EAC (Non-Coal Mining) meeting held during 1-2 March, 2023 wherein the EAC after detailed deliberations deferred the proposal for want of requisite information. The Project Proponent submitted the information on 28.04.2023 in Parivesh portal. Accordingly, the proposal was considered in the 15th EAC (Non-Coal Mining) meeting held during 30-31 May, 2023.

iv. The Project Proponent obtained the Terms of Reference (ToR) vide ToR Lr. No: J-11015/08/2018-IA.II(M) dated 28.06.2018 and ToR was valid upto 27.06.2021.

v. Lease Details:

- a) The State Govt. vide letter No.5734/SM, dated 12.7.2016 have issued terms & conditions for grant of mine lease in favour of M/s NALCO for Bauxite over an area of 1738.04 ha in Pottangi Tahasil of Koraput District reserved in its favour under section 17A(1A) of MMDR Act,1957 vide Notification No. GSR 314(E), dated 27.04.2007 and No. GSR 411(E), dated 27.04.2017, both issued by the Ministry of Mines. The said terms and conditions have been duly accepted by PP vide its letter No. NBC/ED(R&T)/1556/2016 dated 27.12.2016.
- b) Then, the PP has requested for reduction of the area from 1738.04 Ha to 697.979 Ha vide its letter No.CMD/269 dated 30.10.2017.
- c) Thereafter, the Ministry of Mines vide Notification No. GSR 255(E), dated 21.03.2018, in supersession of its earlier notifications has reserved an area of 697.979 ha under section 17 A (1A) of MMDR Act,1957 for undertaking prospecting or mining operation through M/s NALCO till 6.04.2022.
- d) Therefore, the State Government, in supersession of this letter No.5734/SM dated 12.07.2016 have issued fresh LOI over the reduced area of 697.979 Ha for grant of ML vide Letter No. 3794/SM, Bhubaneswar dated 14.05.2018. The issued Lol was accepted by the PP on 14.05.2018.
- e) Further, PP submitted that the State Govt. vide Order no: 2391/SM, dated 15.03.2022 have extended the reservation period by one year i.e. upto 25.04.2023 u/s 17A of the MMDR (Amendment) Act, 2021 in respect of this mines with the recommendation of Central Govt. vide letter dated 04.03.2022.
- f) Then, the Govt. of Odisha, Dept. of Steel and Mines vide Order No: 1029/SM-MC2-MC-0055-2020/SM, Bhubaneswar dated 02.02.2023 have granted the mining lease for a period of 50 years.

vi. Land Use/Land Cover of the Mine Lease Area:

Forest land	697.979 ha
Total Mining lease area (MLA)	697.979 ha

vii. Mining Plan details:

Mining Plan approved by Indian Bureau of Mines	Letter No.	MP/FM/13-ORI/BHU/2018-19
	Date	27.07.2018
	Mineral	Bauxite
	ML area	697.979 ha
	Validity	5 years
Mining Parameters	Quantitative Description	
Method of Mining	Open cast mechanized mining	
Bench Height	8m	
Bench Width	15-200m	
Geological Reserves	111.794 MT	
Mineable Reserves	110.400 MT	
Life of mine	32 years	
Overall pit slope	45°	
ROM Output size	-150 mm	
Action plan and timeline for installation and commission of crusher of 900 TPH.	<p>The Project Proponent has submitted that after obtaining EC, Stage-II FC and CTE, activities for Lease deed agreement will be completed by Dec-2023. Then, the handover of the entire Mining Lease area (Total Forest Land) will be completed with issuance of surface right by Collector. All these activities will be completed by Feb-2024.</p> <p>Then the mine development activities along Installation & commissioning of crusher will be taken up. After completion of establishment of required machinery (Over Land Conveyor, HEMM Machines, Crusher etc) by mid of the year 2025, Project activities will be completed. After obtaining the mines opening permission from DDM Mines, mining activity will commence by obtaining CTO.</p>	
Transportation details	The mined out bauxite will be transported through dumpers to crushers unit (900tph) for crushing to 150mm size and this crushed ore will be sent by conveyor mode of transportation to NALCO's Aluminium refinery located at Damanjodi.	
Dumper's capacity	50 and 55 Ton	
Topsoil	Topsoil dumping will be in stages of 8m over an area of 1.40 ha during first year with a designed capacity of 1.38 lakh tons. During second year dumping will be over an area of 1.37 ha with a designed capacity of 1.35 lakh tons. During third year it will be over an area of 2.11 ha from with a designed capacity of 6.41 lakh tons.	
Waste generation	Waste dumping will be in stages of 08 m over an area of 2.44 ha. In first year with a designed capacity of 1.60 lakh tons. During second year dumping will be over an area of 2.41 ha with a designed capacity of 2.46 lakh tons. During third year it will be over an area of 2.02 ha from with a designed capacity of 2.12 lakh tons.	
Ground water level	140-150m bgl (Min. 1226 mRL & Max. 1216 mRL)	
Depth of mining	40m bgl	

Ground water intersection	No
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viii. Water requirement:

Total water requirement	700KLD	Mines road sprinkling	525.0 KLD
		Industrial (mining activity) use	75.0 KLD
		Green belt	60.0 KLD
		Drinking and Sanitation	40.0 KLD
Source	Bore wells in the banks of the Kunduli Nala or other nalas in the periphery of Pottangi Mines		
Permission	<p>Application vide 21-4/2509/OR/MIN/2020; date: 05.07.2020 submitted to CGWA for obtaining NOC/Permission for abstraction of ground water.</p> <p>After detailed hydrological survey, it was found that required 700 KLD surface water available near project site (Totajhola Nallah located at 1.4 km aerial distance), necessary approval from Industrial Promotion and Investment Corporation of Odisha Limited (IPICOL), Government of Odisha has been obtained. Single window permission for 0.286 cu.sec (700 KLD) surface water withdrawal received from IPICOL, Govt. of Odisha.</p> <p>Further, PP submitted that the proposal of NALCO to make application for 0.286 cu.sec water for Pottangi Bauxite mines was discussed in 220th SLFC meeting held on 26th April, 2022 and SLFC has recommended 0.286 cu.sec of water as sought by the NALCO. Hence NOC from CGWA is not applicable.</p>		

ix. Nearest village / town/ highway/railway station / water bodies/Forest:

Particulars	Distance	Direction
Pottangi Village	1.2 km	SE
Damanjodi Town	18 km	NNW
Koraput District Head quarter	40 km	NW
Damanjodi Railway Station	18 km	NNW
National Highway NH-43	1.5 km	S
Water bodies		
Totajhola Nala	0.5 km	SE
Pottangi Nala	2.0 km	S
Kunduli Nala	3.5 km	N
Reserve Forest		
Rallagedda RF	9.1 km	S
Tangini RF	9.7 km	SE

x. Presence of Environmentally Sensitive areas in the study area:

Forest Land/Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter/ Remarks
Forest Land	Yes	The Project Proponent has submitted the copy of the 'in principle' approval granted by the MoEF&CC vide F.No: 8-17/2022-FC dated 10.01.2023 under Section - 2 of the Forest (Conservation) Act, 1980 for non-forestry use of 697.979 ha of forest land for Pottangi Bauxite Mining Lease in village

		Pottangi of Koraput Forest Division under Pottangi Tahasil of Koraput District, Odisha by M/s NALCO Ltd.
National park	No	The Project Proponent has submitted the letter from the Office of the Principal CCF (Wildlife) & Chief Wildlife Warden vide Lr no. No.5090/7WL-FD & WLC-61/2022 dated 26.04.2023 stating that there is no National Parks, Biosphere Reserve, Wildlife Corridor, Tiger/Elephant Reserve in the study area of 10km radius of mining lease area. PP also submitted the 10 km radius map authenticated by Principal CCF (Wildlife) & Chief Wildlife Warden.
Wildlife Sanctuary	No	
Biosphere Reserves/Tiger Reserves	No	
Wildlife Corridors	No	
Schedule-I species	Yes	Peafowl (<i>Pavo cristatus</i>) and Sloth Bear (<i>Melursus ursinus</i>) PP submitted the list of Flora and Fauna duly authenticated by Divisional Forest Officer, Koraput Division from Office of The Divisional Forest Officer-Cum-Wildlife Warden, Koraput Forest Division vide letter no 186 dated 07.01.2021.
Wildlife Conservation Plan	Yes	PP submitted that as per the authenticated list of flora fauna duly signed by the DFO Koraput, Peafowl (<i>Pavo cristatus</i>) and Sloth Bear (<i>Melursus ursinus</i>) have been identified as Schedule – 1 species in Koraput area. Accordingly, a conservation plan for the protection and conservation of Peafowl and Sloth bear in Koraput area is prepared and submitted to Divisional Forest Officer, Koraput Division on 17.02.2021 for approval. Then, Power point presentation made on 30.12.2022 to PCCF, Wildlife, Odisha. Revised SSWLCP has been submitted to PCCF, Bhubaneswar by the Office of the Regional Chief Conservator of Forest, Koraput Circle on 15.02.2023, with revised cost of Rs. 14.35 Cr.
FRA certificate issued by the District Collector		The Project Proponent has submitted the letter from the Office of the District collector vide no. 3122/21 dated 11-11-2021 certifying that 697.979 ha of forest land proposed to be diverted in favour of NALCO for Pottangi Bauxite Mines in Koraput District falls within jurisdiction of Malkarbandha, Sipaiput, Erasantaguda, Katraguda, Pottangi, Sisaguda, Medamgandhi, Thuria and Karanjaguda villages in Pottangi Tahasil. It is further certified that,

	<ol style="list-style-type: none"> 1. The complete process for identification and settlement of rights under the FRA has been carried out for the entire 697.979 hectares of forest area proposed for diversion. 2. The proposal for such diversion (with full details of the project and its implications, in vernacular/local language) have been placed before each concerned Grama Sabha of forest-dwellers, who are eligible under the FRA. 3. That each of concerned Gram Sabhas, has certified that all formalities / processes under the FRA 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 proposed diversion. 4. 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. 5. The diversion of forest land for facilities managed by the Government as required under section 3(2) of the FRA have been completed that the Gram Sabhas have given their consent to it. 6. The rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3(1)(e) of the FRA.
<p>Action Plan to monitor the movement of wildlife in the vicinity of the mine lease area</p>	<p>The Project Proponent has submitted that to identify the effect of wildlife movement the following steps will be taken to meet the objective of action plan to monitor the movement of wildlife</p> <ol style="list-style-type: none"> i. Development of the wildlife movement track for monitoring the wildlife movement around the mine lease area. ii. Engagement and incorporation of traditional knowledge iii. Document and mitigate potential effects of mine activities on wildlife. iv. Implementation of operational practices that mitigate disturbance to wildlife and wildlife habitat. <p>PP proposed the below measures to avoid effect of mine to wildlife during their movement at Pottangi mine lease area.</p>

- i. Non-Vehicle Wildlife Incidents and Mortalities
- ii. Vehicle-Wildlife Collisions
- iii. Waste Management
- iv. Open Pits

PP submitted that they will implement below mitigation practices to minimize potential interactions between mine related traffic and wildlife:

- i. Providing right-of-way for wildlife;
- ii. Speed limits to be posted and enforced, speed limits are 60 kilometers per hour (km/h) along haul roads, and 20 km/h and 40 km/h along other roads;
- iii. Vehicles encountering wildlife on roads are required to stop and communicate the presence of wildlife on the road(s) to the Environment Department.
- iv. Roads will be closed temporarily, and these closures are communicated site-wide when wildlife are in the vicinity of the road;
- v. Wildlife crossing signs to be erected at sections of road where wildlife crossings are frequent, or in areas where animals reside near roads; o
- vi. A barrier fence is maintained around the road.
- vii. A fence is maintained around Misery Camp to prevent wildlife from entering.

In addition to the education and awareness programs for new and current employees the following measures will be included:

- i. More frequent burning of camp waste in order to reduce chance of wildlife encounters;
- ii. Juice boxes are no longer to be used;
- iii. Signs have been added in lunchrooms and additional labels have been added to waste bins to indicate proper waste disposal;
- iv. Removal of bear proof outdoor waste bins.

Solar electric Fencing will be installed around the immediate open pit area. At high risk areas, heavy weight orange barrier fencing to be initiated to mitigate hazards to other heavy wildlife.

Further, PP submitted that a rescue team consisting of 10 persons will be deployed for rescue of animals

abandoned and strayed wild animals found inside the project area, with one hired vehicle and two rescue cages. Anti-poaching and Anti-depredation squad consisting of 10 persons will be deployed who will assist the regular forest staff for protection of wildlife, with one hired vehicle and recharging mobile sets. Around 10 nos of Fire watchers one in each of the villages within the impact area will be engaged for 5 months every year, from the month of February to June for a period of 5 years. These fire watchers will be equipped with firefighting equipment's such as fire extinguishers/blowers, fire resistant dress, water bottle, axe, shoes, etc. A team for tranquilization of animals will be formed at division level, will be adequately trained and required equipment's will be procured. To improve and standardize wildlife monitoring at pottangi mines a series of workshops to be organized. Where NALCO officials, governments, monitoring agencies, and communities will attend the workshop. The workshop focuses will be on results from the monitoring existing programs, and if require additional measure will be proposed towards sustainable growth.

PP also submitted that as per NTCA website there is no tiger corridor passing in the study area and nearest tiger corridor is around 215 km in west direction and nearest National Park(NP) is KangerGhat NP which is 84 km far from the mining lease.

Further, PP submitted the map superimposed on google image showing the distance of Tiger corridor, National Park and Wildlife Sanctuary from the mining lease area.

xi. Green belt/plantation details:

Particulars for Green belt/plantation	Area covered (in Ha)
Proposed area for green belt/plantation	284.11 ha
Total no. of plants	101750 no.s
Budget for green plant & plantation till the end of life of mine	Rs. 30 Cr (Capital) and Rs 3 Cr (Recurring)

xii. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	03.09.2018 to 30.11.2018
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Post-monsoon

Predominant wind direction	E and NE (from)																																																																																						
Ambient Air Quality (8 locations)	The Project Proponent reported that the air quality concentrations of PM _{2.5} and PM ₁₀ for all the 8 AAQM stations were found between 21.1 to 38.2 µg/m ³ and 35.8 to 55.4 µg/m ³ respectively. The concentrations of NO ₂ and SO ₂ were found to be in range of 14.3 to 23.2 µg/m ³ and 4.8 to 14.2 µg/m ³ respectively.																																																																																						
Air Quality modeling	<p>The transport of the bauxite/OB within the lease area will be carried out by dumper truck. The maximum incremental Ground Level Concentration due to mining are superimposed on the 98th percentile baseline PM₁₀ and PM_{2.5} concentrations to calculate the likely resultant concentrations after implementation of the proposed mining. The values of resultant GLC at different locations are given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Code</th> <th rowspan="2">Particulars Locations</th> <th colspan="3">Particulate matter (PM₁₀) µg/m³</th> </tr> <tr> <th>Baseline scenario (max)</th> <th>Predicted GLC (max with EMP)</th> <th>Future predicted baseline values (max)</th> </tr> </thead> <tbody> <tr> <td>A2</td> <td>Malkarbandha</td> <td>46.9</td> <td>6.1</td> <td>53</td> </tr> <tr> <td>A3</td> <td>Pottangi</td> <td>55.4</td> <td>1</td> <td>56.4</td> </tr> <tr> <td>A6</td> <td>Matiagurha</td> <td>45.2</td> <td>1</td> <td>46.2</td> </tr> <tr> <td>A7</td> <td>Sharagigurha</td> <td>48.2</td> <td>1</td> <td>49.1</td> </tr> <tr> <td>A8</td> <td>Kunduli</td> <td>53.4</td> <td>1</td> <td>54.4</td> </tr> <tr> <td rowspan="2">NAAQ stds. (2009)</td> <td>24 hourly</td> <td colspan="3">100 µg/m³</td> </tr> <tr> <td>Annual</td> <td colspan="3">60 µg/m³</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Code</th> <th rowspan="2">Particulars Locations</th> <th colspan="3">Particulate matter (PM_{2.5}) µg/m³</th> </tr> <tr> <th>Baseline scenario (max)</th> <th>Predicted GLC (max with EMP)</th> <th>Future predicted baseline values (max)</th> </tr> </thead> <tbody> <tr> <td>A2</td> <td>Malkarbandha</td> <td>32.2</td> <td>3.6</td> <td>35.8</td> </tr> <tr> <td>A3</td> <td>Pottangi</td> <td>38.2</td> <td>0</td> <td>38.2</td> </tr> <tr> <td>A6</td> <td>Matiagurha</td> <td>28.9</td> <td>0</td> <td>28.9</td> </tr> <tr> <td>A7</td> <td>Sharagigurha</td> <td>32.8</td> <td>0</td> <td>32.8</td> </tr> <tr> <td>A8</td> <td>Kunduli</td> <td>36.5</td> <td>0</td> <td>36.5</td> </tr> <tr> <td rowspan="2">NAAQ stds. (2009)</td> <td>24 hourly</td> <td colspan="3">60 µg/m³</td> </tr> <tr> <td>Annual</td> <td colspan="3">40 µg/m³</td> </tr> </tbody> </table>			Code	Particulars Locations	Particulate matter (PM ₁₀) µg/m ³			Baseline scenario (max)	Predicted GLC (max with EMP)	Future predicted baseline values (max)	A2	Malkarbandha	46.9	6.1	53	A3	Pottangi	55.4	1	56.4	A6	Matiagurha	45.2	1	46.2	A7	Sharagigurha	48.2	1	49.1	A8	Kunduli	53.4	1	54.4	NAAQ stds. (2009)	24 hourly	100 µg/m ³			Annual	60 µg/m ³			Code	Particulars Locations	Particulate matter (PM _{2.5}) µg/m ³			Baseline scenario (max)	Predicted GLC (max with EMP)	Future predicted baseline values (max)	A2	Malkarbandha	32.2	3.6	35.8	A3	Pottangi	38.2	0	38.2	A6	Matiagurha	28.9	0	28.9	A7	Sharagigurha	32.8	0	32.8	A8	Kunduli	36.5	0	36.5	NAAQ stds. (2009)	24 hourly	60 µg/m ³			Annual	40 µg/m ³		
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Noise level (8 locations)	Noise levels varied from 50.3 to 54.2 Leq dB(A) during day time and from 40.7 to 43.9 Leq dB(A) during night time.																																																																																						
Water Quality	Parameters	Surface water (2 locations)	Ground water (8 locations)																																																																																				
	pH at 25°C	7.6-7.77	6.5-7.4																																																																																				
	Total Dissolved Solids, mg/l	76-83	65-850																																																																																				
	Chloride as Cl-, mg/l	10-22	10-254																																																																																				

	Total Hardness, mg/l	36-40	-
	DO, mg/l	5.2-5.4	-
	BOD, mg/l	8-12	-
	Fluoride as F, mg/l	0.5	0.5-1.82
Soil quality (9 locations)	Parameters		Observed Values
	pH		6.4 – 7.1
	Electrical Conductivity (μ S/cm)		117-163
	Organic Carbon (%)		0.07-0.47
	Available Nitrogen as N (Kg/Ha)		157-345
	Available Phosphorus (Kg/Ha)		12.1-35.8
	Available Potassium (K)		22-376
Traffic Study	PP reported that the traffic study was carried out on NH-26 near Pottangi village (connecting Raipur - Balangir - Vizianagaram) which is the main road connecting to proposed project area. As per traffic survey, the no. of PCU's during peak hour is 470 numbers and the Level of service is found to be very good i.e., the V/C ratio is 0.31.		
Ground vibration study nearby operating mine	The Project Proponent has submitted that the nearest running mine of Proposed Pottangi mining lease is Panchpatmali Bauxite Mine by NALCO. PP has submitted the copy of final report on Scientific Study to measure the blast induced ground vibration and its impacts on nearby structures of Panchpatmali Bauxite Mine conducted by Department of Mining Engineering, ISM, Dhanbad during March-2020. During investigation period 8 rounds of blasts comprising of 23 events were analysed.		

xiii. Public Hearing (PH) Details:

Advertisement for PH with date	05.11.2019
Date of PH	17.12.2019
Venue	Mini Stadium, Pottangi
Chaired by	<ul style="list-style-type: none"> i. Sri Deben Kumar Pradhan, OAS (S.A.G), Additional District Magistrate, Koraput ii. Er P Kar, Regional Officer, State Pollution Control Board, Rayagada
Issues raised during PH	Infrastructure development, Employment Opportunities to surrounding local people CSR implementation, and peripheral development.
Budget proposed for addressing issues raised during PH	The Project Proponent has submitted the revised timeline from 5 years to 3 years with a budget of Rs 7.2 Cr to address the concerns of the public hearing. PP earmarked a budget for 1 st year as Rs. 215 L, 2 nd year as Rs. 248 L and 3 rd year as RS. 257 L, totalling to Rs. 720 lakhs.

Additional information (if any)	The Project Proponent has submitted that the solar energy of about 100 kW is proposed to be generated on Roof Top area available on the built-up area (Admin building, Canteen, Vehicle shed etc.). Project Proponent earmarked a budget of Rs 3.5 Cr under EMP budget with a timeline of 2 years.
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xiv. Rehabilitation and Resettlement (R&R)

Particulars	Details
R & R Plan	The Project Proponent has submitted that no human settlements exist in the mine lease area; hence no displacement of any human habitat or any personal property is envisaged.
Additional information (if any)	<p>The Project Proponent has submitted that they will focus on the below mentioned areas towards upgradation of the technologies and skills to enhance the work efficiency as well as quality of the output.</p> <ol style="list-style-type: none"> i. Enhancement of Training Capacities & Technologies ii. Identification of job roles related to mining sector along with definite supply management iii. Engagement of Private players iv. Engagement of States Initiatives v. Quality Training vi. Coordination among skill providing centres vii. Proper designs of Policies viii. CSR approaches. <p>PP also submitted the Skill Development Plan for the Workforce at Pottangi Bauxite Mines, Koraput District, Odisha.</p>

xv. Court case details:

Court Case	The Project Proponent has submitted an undertaking stating that "No Litigation in any court of law" related to the proposal of Pottangi Bauxite Mine, at Pottangi Village & Tehsil, Koraput District, Odisha.
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xvi. Affidavit/Undertaking details:

Project Proponent submitted an Undertaking	The Project Proponent has submitted an Undertaking stating that they hereby certified that the data and information presented in the EIA report is factually correct and they own the contents (information and date) of the EIA report.
Consultant submitted an Undertaking	The EIA/EMP report based on prescribed Terms of Reference issued by MoEF&CC vide Memo No. IA/OR/MIN/69870/2017 dated 28.06.2018 for the proposed Pottangi bauxite mine in Pottangi Village & Tehsil, Koraput Dist., Odisha. In this regard they hereby certified that the EIA/EMP reports prepared by them and data provided by laboratories including thier status of approvals presented in the report is factually correct. The laboratory used for

	analysis of samples is approved by NABL. MoEF&CC under EPA 1986 and rules made there under.
Affidavit as per Ministry's OM dated 30.05.2018	PP submitted the Affidavit in a non-judicial stamp paper of Rs 10 bearing no: 62 AA 720924 dated 17.02.2023 stating that the NALCO hereby undertake to comply with all the statutory requirements and judgement of Hon'ble Supreme Court dated 02.08.2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India and Others.

xvii. Details of the EMP:

Activities	Capital Cost (Rs.In Crores)	Recurring (Rs. In Crores)
Air pollution control	10	1
Water pollution control	30	3
Noise pollution control	5	0.5
Pollution monitoring	20	2
Safety & health	15	1.5
Greenbelt development & Soil conservation measures etc...	30	3
Miscellaneous & Contingency expenses	10	
Total	120	12

EMP budget considered as 8.3% of the Total Project Cost and recurring cost considered 10% of EMP capital cost

xviii. Details of project cost and employment:

Particulars	Budget (Rs. In Crores)
Budget for addressing the Public Hearing issues	Rs 7.2
EMP Cost	Rs 120
Recurring cost for EMP	Rs 12
Project Cost	Rs 1436.9
Employment	229 persons

3. The proposal was considered by the EAC in its meeting held on 30-31 May, 2023. The EAC asked the Project Proponent to submit the annual compliance of the effectiveness of the Wildlife Conservation Plan to the Chief Wildlife Warden. The Project Proponent informed the EAC that budget of Rs 3.5 Cr has been earmarked towards promotion of solar energy. The EAC asked the Project Proponent to explore the possibility of increasing the budget towards promotion of solar energy.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC in its meeting held during 30-31 May, 2023 under the provisions of EIA Notification 2006 and its subsequent amendments, **recommended** the proposal for grant of Environmental Clearance to Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha subject to certain specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

4. The matter was examined in the EAC in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and the undersigned is directed to say that the Ministry of Environment Forest & Climate Change after accepting the recommendation of EAC in its 15th EAC (Non-Coal Mining) meeting held during 30-31 May, 2023 hereby accords Environmental Clearance (EC) to the project for Pottangi Bauxite Mine of M/s National Aluminium Company Limited (NALCO) with Production Capacity of 3.5 Million TPA (ROM), Top Soil - 0.047 Million TPA, Over Burden - 0.346 Million TPA, (Total Excavation - 3.893 Million TPA) along with crusher of 900 TPH in the mine lease area of 697.979 ha, located at Pottangi Village, Pottangi Tehsil, Koraput District, Odisha, subject to compliance of the terms & conditions and the environmental safeguards mentioned below: -

A. SPECIFIC CONDITIONS

- i. The Project Proponent shall commence the mining operation only after obtaining Stage-II FC.
- ii. The Project Proponent shall ensure that the production, despatch/ transportation of Bauxite should begin only after the installation and commission of conveyor belt and the same shall be intimated to the Ministry's Integrated Regional Office and the same agreed by project proponent during EAC meeting. Accordingly, SPCB shall not grant Consent to Operate (CTO) till the commission of conveyor belt.
- iii. The transportation of bauxite from the mine to the Alumina refinery plant shall take place through only Conveyor Belt. No transportation through road is allowed.
- iv. The Project Proponent shall conduct the ground vibration study through authorized agencies and the results shall be compared with limiting values prescribed by Directorate General of Mines Safety (DGMS). The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- v. The Project Proponent shall monitor the ground induced blasting vibrations for every blast and the results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS). PP shall ensure that the values of "peak particle velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time. The data needs to be maintained and submitted along with the six monthly compliance report.
- vi. The Project Proponent shall strictly adhere to the action plan to monitor the movement of wildlife in the vicinity of the mine lease area.
- vii. The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict.

- viii. The Project Proponent needs to submit the annual compliance of the effectiveness of the Wildlife Conservation Plan to the Chief Wildlife Warden.
- ix. The Project Proponent needs to take adequate measures for protection of seasonal nallahs in the vicinity of the mine lease area. The natural water bodies and or streams which are flowing in and around the mine lease area should not be disturbed.
- x. Regular monitoring on surface water flow, turbidity & water quality shall be carried out and report shall be submitted quarterly to the Ministry's Integrated Regional Office.
- xi. The Project Proponent should install the continuous ambient air quality monitoring stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- xii. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Integrated Regional Office.
- xiii. The Project Proponent shall explore the possibility of increasing the budget towards promotion of solar energy.
- xiv. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of at least 40 m throw shall be installed at various locations in the mine area.
- xv. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher/DG set shall be carried out at periodic intervals. Continuous noise monitoring meters shall be established inside and outside of the crusher.
- xvi. The Project Proponent needs to complete the entire 7.5 m peripheral plantation and safety barrier plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office.

- xvii. The budget of Rs 7.2 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xviii. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- xix. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 120.0 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xx. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- xxi. The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.
- xxii. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxiii. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- xxiv. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The

preference shall be given to the local people for the purpose of employment and PP shall strictly adhere to the skill development plan for the work force.

- xxv. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xxvi. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Integrated Regional Office.

B. STANDARD CONDITIONS

I. Statutory compliance

- 1) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India &Ors before commencing the mining operations.
- 3) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- 5) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 6) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.

7) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.

8) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

9) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

10) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

11) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.

12) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

13) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

14) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

15) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.

16) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

17) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

18) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

19) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.

20) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining plan

21) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).

22) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

VI. Land reclamation

23) The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.

24) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local

species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

25) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

26) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.

VII. Transportation

27) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].

28) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered

to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

29) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.

30) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

31) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.

IX. Public hearing and human health issues

32) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

X. Corporate Environment Responsibility (CER)

33) The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office

Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.

XI. Miscellaneous

34) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

35) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

36) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.

37) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.

38) The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.

39) In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

40) The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

41) Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

5. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.

5. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. This issues with the approval of Competent Authority.

Yours faithfully,
Pankaj Verma
(Pankaj Verma)
Scientist 'E'

Copy to:

- i. **The Secretary**, Ministry of Mines, Government of India Shastri Bhawan, New Delhi.
- ii. **The Chief Secretary**, Government of Odisha, Secretariat, Bhubaneswar.
- iii. **The Secretary**, Department of Environment, Government of Odisha, Secretariat, Bhubaneswar.
- iv. **The Secretary**, Department of Mines and Geology, Government of Odisha, Secretariat, Bhubaneswar.
- v. **The Secretary**, Department of Forests, Government of Odisha, Secretariat, Bhubaneswar.
- vi. **The Secretary**, Department of Steel and Mines, Government of Odisha, Secretariat, Bhubaneswar.
- vii. **The Member Secretary**, Odisha Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
- viii. **The Deputy Director General of Forests (C)**, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharpur, Bhubaneswar – 751023.
- ix. **The Chief Wildlife Warden**, Prakurti Bhawan, 5th floor, BDA Apartment, Nilakanthanagar, Nayapalli, Bhubaneswar-751012, Odisha.
- x. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- xi. **The Controller General**, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440001.
- xii. **The Member Secretary**, Central Ground Water Board, Ministry of Agriculture and Irrigation, 12/1 Jam Nagar House, Shahjahan road, New Delhi 110011.
- xiii. **The District Collector**, Koraput District, Govt. of Odisha.
- xiv. **Guard File.**
- xv. **PARIVESH Portal.**

Pankaj Verma
(Pankaj Verma)
Scientist 'E'

UNDERTAKING

ANNEXURE- B-IX

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (10)

No labour camp shall be established on the forest land and the User Agency shall provide fuels preferably alternate fuels to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;

Compliance to Condition No. B (10)

In compliance to this condition, Nalco do hereby undertake that no labor camp shall be established on the forest land and Nalco shall provide fuels preferably alternate fuels like kerosene/solar power to the labors and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

नेशनल एल्युमिनियम कम्पनी लिमिटेड
(भारत सरकार का उद्यम)
निगम कार्यालय

नालको भवन, नयापल्ली, भुवनेश्वर-751 061, भारत

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(A Government of India Enterprise)

CORPORATE OFFICE

NALCO BHAVAN, Nayapalli, Bhubaneswar-751 061, INDIA

वेबसाइट Website: www.nalcoindia.com

UNDERTAKING

ANNEXURE- B-X

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (11)

The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS coordinates.

Compliance to Condition No. B (11)

In compliance to this condition this is to state that the boundary of the diverted forest land, mining lease and safety zone area, as applicable, has been demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS coordinates.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-XI

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (12)

The layout plan of the mining plan/proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal.

Compliance to Condition No. B (12)

In compliance to this condition, Nalco do hereby undertake that the layout plan of the mining plan/shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) i/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-XII

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (13)

The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government.

Compliance to Condition No. B (13)

In compliance to this condition, Nalco do hereby undertake that the forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-XIII

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (14)

No damage to the flora and fauna of the adjoining area shall be caused.

Compliance to Condition No. B (14)

In compliance to this condition, Nalco do hereby undertake that No damage shall be caused to the flora and fauna of the adjoining area.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-XIV

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (15)

The User Agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year regularly.

Compliance to Condition No. B (15)

In compliance to this condition, Nalco do hereby undertake that Nalco shall submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to the Ministry by the end of March every year regularly.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE- B-XV

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (16)

Any other condition that the concerned Regional Office of this Ministry may stipulate with the approval of competent authority in the interest of conservation, protection and development of forests & wildlife.

Compliance to Condition No. B (16)

In compliance to this condition Nalco do hereby undertake that Nalco shall comply any other condition that concerned Regional Office of this Ministry may stipulate with the approval of competent authority in the interest of conservation, protection and development of forests & wildlife.

Place: Bhubaneswar

Date:


Authorized Signatory
Executive Director (Project-Mines) /c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

ANNEXURE - B-XVI

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. B (17)

The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.

Compliance to Condition No. B (17)

In compliance to this condition Nalco do hereby undertake that Nalco shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.

Place: Bhubaneswar

Date:


Authorized Signatory
R. K. Mishra
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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UNDERTAKING

Annexure- B-XVII

MoEF &CC File No.8-17/2022-FC dtd. 10.01.2023

Condition No. (18)

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 guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.

Compliance to Condition No. (18)

In compliance to this condition Nalco do hereby undertake that Nalco shall not violate 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 guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-FC dated 28.03.2019.

Place: Bhubaneswar

Date:


Authorized Signatory
K. K. Patra
Executive Director (Project-Mines) I/c. &
Authorised Signatory
Project & Technical Departments
National Aluminium Company Ltd.
Bhubaneswar-751013

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