

HIL/SEM/MoEF/2022-23/71

Date: 20.06.2022

TO

The Additional Director & Member Secretary
IA Division (Non-Coal Mining)
Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj, New Delhi.

Sub: Submission of step-wise compliance of the SoP dated 07.07.2021 w.r.t Proposal for EC of Maliparbat Bauxite mines of Hindalco Industries Limited over an area of 268.011 ha. in Koraput District, Odisha.

Ref: 1. ADS dated 30th May 2022 to provide step-wise compliance of MoEF&CCSoP dated 07th July 2021
2. MoEF&CC - MoM of 49th EAC meeting held during 19th – 21st April 2022 (agenda item No. 2.1)
3. Proposal No. IA/OR/MIN/250275/2020 & F. No. J-11015/79/2020-IA II (M)

Respected Sir,

This has reference to MoM of 49th EAC (Non-coal mining) meeting held during 19th to 21st April, 2022, wherein EAC recommended our proposal for grant of EC for Maliparbat Bauxite mine in Koraput District, Odisha with certain specific conditions which have since been complied with.

However, on 30th May 2022 an Additional Details Sought (ADS) was raised by the Member Secretary to provide step-wise compliance of the MoEF&CCSoP No. 22-21/2020-IA.III dated 7th July, 2021.

In response to the ADS, we are submitting herewith the step-wise compliance of SoP for your kind consideration please:

Para 11 -SOP dealing with Violation Cases

Step 1: Closer or Revision

Sl. No.	Status of EC	Actions	Compliance/Remarks
1	If no prior EC has been taken	Order to close its operation	<ul style="list-style-type: none">EC (for production of 0.6 MTPA bauxite) issued on 07.09.2006 under EIA Notification 1994.Validity of the EC was for 5 years i.e. upto 06.09.2011.

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Corporate
Identity No. L27020MH1958PLCO11238

		<ul style="list-style-type: none"> • Total production during the validity period was only 66,684 MT. • EC expired on 06.09.2011. • Mining operation continued till 2014 without EC and total production during violation period (2011- 2014) was 900 MT. • No operations were carried out from 2014 till date.
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Step 2: Action under Environment (Protection) Act, 1986

Compliance: State Government & SPCB of Odisha have been informed to take action under the provision of Environment (Protection) Act, 1986 against the project proponent vide MoEF&CC letter No. J-110105/79/2020-IA.II (M) dated 08.02.2021.

The State Government is in the process of initiating the necessary action under Section 15 read with Section 19 of Environment (Protection) Act, 1986.

Step: 3: Appraisal under EIA Notification, 2006

B. If permissible:

- As per the existing regulations, the project is permissible and eligible for grant of prior EC under EIA Notification, 2006.
- The EIA/EMP study for the project was carried out as per ToR and Public Hearing successfully conducted on 22.11.2021 as per the provisions of EIA Notification 2006.
- Online application along with EIA/EMP report & PH proceedings were submitted on Parivesh-MoEF on 27.01.2022 for grant of EC.
- The project was first appraised in 46th EAC meeting held during 15th – 17th Feb 2022. The observations/queries raised by the EAC were complied with and response submitted on 13.03.2022 on PARIVESH portal.
- Damage Assessment, Remedial Plan and Community Augmentation Plan was assessed and recommended by the EAC during its 49th meeting held on 19th – 21st Apr 2022. (MoM attached as **Annex. I**)
- Total Budget Provision w.r.t Remediation Plan and Natural & Community Resource Augmentation Plan is Rs. 2,79,99,000/-:
 - a. Ecological restoration plan Rs. 20,00,00/-.
 - b. Natural Resource Augmentation Plan (NRAP)- Rs. 30,00,000/-.
 - c. Community Resource Augmentation Plan (CRAP) - Rs. 2,29,90,000/-.

- EAC recommended the proposal in meeting held on 19th – 21st Apr 2022 with the condition to submit Bank Guarantee (BG) of Rs. 2,79,99,000/- with OSPCB on account of the above.
- As per the recommendations of the EAC, we have submitted a BG of Rs. 2,79,99,000/- dated 11.05.2022 with OSPCB, Bhubaneswar towards budgetary provision with respect to Remediation Plan and Natural & Community Resource Augmentation Plan for Maliparbat Bauxite mine (**Annex. II**).

Para 12 - Penalty provisions for Violation cases and applications

a. For new projects

ii. Where operations have commenced without EC:

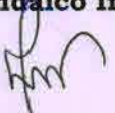
- Our proposal was considered as a new project. Total project cost is Rs. 23.72 Cr. (Say Rs. 24 Cr.). Therefore, @1% of project cost, Rs. 24 Lakh will be applicable to us which we agree to pay.
- It may be noted that during the violation period, there was no turnover as such. The 900 MT of bauxite which was mined during this period has not been evacuated to our Aluminium Plant. It continues to lay at the mine site till date. However, Dy. Director of Mines, Koraput circle raised Demand Notice No. 34/Mines dated 03rd Jan 2022 for Rs. 15,32,216/- under MMDR Act, 1957 for production to 900 MT of bauxite without a valid EC (**Annex. III**).
- Accordingly, in compliance of the Demand Note, we have paid Rs. 15,32,216/- through SBI net banking on 10.01.2022 (Payment details are attached as **Annex. IV**).
- We also commit to pay 0.25% of the above mentioned total turnover of Rs. 15,32,216/- as per the SoP which works out to be Rs. 3831/-.

Our submission:

Sir, in view of the above, **we request your goodself to consider our submission for issuance of EC and please also let us know, as per Para 12 of SoP, where we need to deposit the amount.**

Thanking you in anticipation.

Yours sincerely,
For **Hindalco Industries Ltd.**


(Pratap Patra)
Agent – Maliparbat Bauxite Mine

ANNEXURE-I : MINUTES OF 49TH EAC MEETING (NON-COAL MINING)

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Day 2: 20th April, 2022 (Wednesday)

2.1 Proposal for Environmental Clearance of M/s Hindalco Industries Ltd for mining of Bauxite in Maliparbat Bauxite Mine with total excavation of 11,62,400 Tonnes (Bauxite:1,100,000 Tonnes (ROM) + Topsoil:18,540 Tonnes + OB/SB/IB:43,860 Tonnes) in the mine lease area of 268.110 ha, located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha – [File No: J-11015/79/2020-IA.II(M), Proposal No: IA/OR/MIN/250275/2020; Consultant: Vimta Labs Ltd] - Reconsideration of EC (Violation)

EAC Meeting Details:

EAC meeting	49 th
Date of Meeting	19 th – 21 st April, 2022

The proposal of M/s Hindalco Industries Ltd is for mining of Bauxite in Maliparbat Bauxite mine with total excavation of 11,62,400 Tonnes (Bauxite:1,100,000 Tonnes (ROM) + Topsoil:18,540 Tonnes + OB/SB/IB:43,860 Tonnes) in the mine lease area of 268.110 ha, located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha. The mine lease area is located between Latitude 18°39'32.810"N to 18°40'28.384"N and Longitude 82°53'22.815"E to 82°55'50.244"E. The mine lease area falls within the Survey of India Toposheet Nos. 65J/13, J/14 and 65 N/2 and falls in Seismic zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Hindalco Industries Ltd has made an online application vide proposal no. IA/OR/MIN/250275/2020 dated 27.01.2022 and submitted Form-2 and EIA report under the provisions of the EIA Notification, 2006. 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 100 ha and appraised at the Central level.

3. The proposal was earlier considered in the 46th EAC (Non-Coal Mining) meeting held during 15th - 17th February, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Project Proponent should revise the quantification of ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also to include the damage due to the transportation of the mineral by road. The committee was of the view that the PP should also include the non-provision of rain water harvesting structure and garland drains in the ecological damage assessment and PP needs to rework on the damage assessed for water consumption by considering the CGWA rate. The committee also noted that there was a court case filed vide W.P.(C) No. 473 of 2022 before the Hon'ble High Court of Orissa regarding the challenge of the public hearing held on 22.11.2021 but PP has not brought the issue of court case before the EAC during the meeting and

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also in Form 2, PP submitted that there is no Court Cases pending against the project and/or land in which the project is proposed to be set up and the committee was of the view that the PP should submit the details of court cases and its current status. Therefore, the Committee deferred the proposal for want of the requisite information.

4. The Project Proponent submitted the information on 13.03.2022 in PARIVESH portal and accordingly the proposal was reconsidered in the 49th EAC (Non Coal Mining) meeting held during 19th – 21st April, 2022 wherein the PP submitted the following:

Point (i): The Project Proponent should submit the action plan for strengthening of road for transportation i.e., upto highway 7.5km and from highway to railway siding – 1.0km by creating a road of 10m width including the shoulder for facilitating two-way risk free and environment friendly transportation.

Reply by PP: PP submitted the action plan for strengthening of road for transportation i.e., upto highway 7.5 km and from highway to railway siding – 1.0 km. The time period of development of road from starting of the road construction will be 10 months.

S. No	Description of Work	Place of Work	Length	In Rs
1	Development of existing Ghat road to CC road	From hill bottom to mines top	4.2 km x 10 m	12,91,12,000
2	Construction of storm water drain along hill side at Ghat road	From hill bottom to mines top	4.2 km	4,71,20,000
3	Construction of RCC retaining wall at Ghat road	From hill bottom to mines top	Length: 150 RMT	1,42,65,000
4	Development of existing Panchayat Road (WBM road to BT road including Construction of Hume pipe culvert)	From NH - 26 to end of WBM	Road length 1.8 km	1,64,25,550
5	Development of existing 0.7 km road from Church to Hill Bottom (WBM to BT road)	From Church to hill bottom - 0.7 km	0.7 km	54,02,250
6	Parapet wall	Along Ghat road	4200 RMT	3,72,12,000
7	1000 mm Dia NP-3 Class Hume Pipe Culvert 7.5m Length (Single Row)	At Ghat road	7.5 m Length (Single row) x 2	8,19,400
8	600 mm Dia NP-3 Class Hume Pipe Culvert 7.5m Length (Single Row)	At Ghat road	7.5 m Length x 2 (Single row)	6,20,250

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9	Development of existing 1.0 km WBM road to BTroad from NH-26 To Dumriput railway siding	From NH-26 to Dumriput railway siding	1 km x 10 m	86,25,000
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PP also submitted the location map showing approach road and road design drawing.

Point (ii): The 24m depth of excavation on the hill slope and its rehabilitation by plantation needs to be submitted by PP.

Reply by PP: PP submitted that no mining activity will be carried out on hill slope.

Point (iii): An area of 141.760ha which will not be disturbed also needs to be included in the plantation at the conceptual stage. PP should also provide the budget for green belt, afforestation and plantation over backfilled areas along with the time schedule.

Reply by PP: PP submitted that an amount of Rs 2.64 lakhs per hectare will be spent towards reclamation, restoration, greenbelt, afforestation and plantation over backfilled areas that is 117.35 ha (109 ha+ 8.35) ha from 6th year of current plan period as per Mining scheme that is from 2023 onwards. PP earmarked a budget of Rs. 2.0 Lakhs/ha of land towards plantation over the undisturbed area with greenbelt area around the mine lease area

Point (iv): The Project Proponent needs to revise the EMP budget for public hearing in light of the concerns raised by the people as follows: -

- Action plan for Protection of air and water environment along with the budget. PP should also include the provision of continuous air quality monitoring equipment as suggested by the EAC, Member.
- Action plan for protection of downhill land use due to soil erosion along with the budget.
- Action plan for preservation of stream water for the use of agriculture purpose along with the budget.
- Action plan for development of artificial forest over barren hills with atleast 20% fruit bearing trees along with the budget.
- Action plan for control of fugitive emission during transportation along with the budget.
- Action plan for protection of agricultural land due to fugitive dust emission along with the budget.
- Action plan for development of health facilities as suggested by the EAC, Members including the revisit of provision of ambulance facilities and doctor.
- Action plan for provision of pucca roads and construction of check dam at Pakjhola Village and how these activities will be undertaken in terms of target wise, location wise, purpose wise and budget needs to be revised accordingly.

Reply by PP:

a) PP submitted the action plan for protection of air and water environment as given below:

- i. Continuous Ambient Air Quality monitoring station will be installed and Air Quality level will be monitored as per CPCB/SPCB guideline.
- ii. Water sprinkling will be done at regular intervals to suppress emission and distribution of dust particles
- iii. Plantation will be undertaken along the plateau slopes as well as peripheral barrier around the mine to arrest the air borne dust
- iv. The machines will be well maintained and PUC certified to reduce emissions due to vehicular exhaust.
- v. Sharp drill bits will be used for less generation of dust particles
- vi. Wet-drilling techniques / dust-collectors will be deployed to prevent generation of dust during drilling operations
- vii. Tarpaulin covered trucks will be deployed for transportation of bauxite ore from the mine head to railway siding to stop spillage on the way.
- viii. Trucks / tippers will ply within permissible speed limit.
- ix. Peripheral barrier (7.5 m wide) will be left around the mine to stop the flow of water to flow down the valley.
- x. Check dams will be constructed across the seasonal nallas to control wash-offs as well as soil erosion one after another depending upon the progress of mining.
- xi. Retaining wall, garland drain and settling tanks will be constructed around the OB dump to arrest the wash-off materials to settle the sediments and release clean water.

PP earmarked a budget of Rs 114.95 Lakhs towards air pollution & Rs.24.27 Lakhs towards water pollution

b) PP submitted the action plan for protection of downhill land as given below:

- i. There is large variation in slope, gradient, topography, soil and vegetation along the downhill. Most open areas are devoid of any surface soil. The area had been subjected to rain and wind erosion for decades. Storm water channels are covered by large bare rocks. There are also isolated patches of croplands. Most of the areas were covered by invasive shrubs of Siam weed (*Chromolaena odorata*) and *Lantana camara*. There are also scattered dense patches of thorny shrubs. There are also barren rocky areas. In some areas the gradient is steep like a straight cut (almost 90°). Hence, a combination of pretreatment is required for different areas across the slope. The following strategies are going to be adopted:
 - a). Existing vegetation will be retained to the extent possible.
 - b). Terrace cultivation is the proven practice for hill slopes. It shall be used for smooth barren areas with gentle slope.
 - c). Across the storm water drains, rock-fill check dams will be constructed to retard the flow of rain water.

- d). Semilunar trenches and bunds shall be made towards the downward side of local species which are scattered in some areas.
- e). Pelletized seeds of local forest species, minor fruit trees will be sown liberally on the slopes.
- f). Invasive shrubs of Siam weed (*Chromolaena odorata*) and *Lantana camara* will be removed in a phased manner when other trees start growing.
- g). Aided natural regeneration practices shall be followed to stimulate forest regeneration.
- h). Adequate measures such as check dams, garland drains, siltation ponds etc. are proposed to check flow of any silt from the mine site & All efforts will be made to use rainwater harvested water for industrial use.
- i). Plantation will be done in the slope for protection of downhill land use

PP earmarked a budget of Rs 283.52 Lakhs towards plantation over the undisturbed area with greenbelt area around the mine lease area.

c). PP submitted the action plan for preservation of stream water for the use of agriculture purpose along with the budget as given below: -

- i. The mine lease is on top of the hill. Rain water from the mine lease area will be diverted to a number of scattered rainwaters harvesting ponds on hill top. On account of loose rocky terrain, water sinks and ultimately feeds the streams.
- ii. PP submitted that they will construct check dam at the feasible location as per the feasibility of water source of natural nala out of mining lease area and will facilitate with the pipe system for the use of agriculture purpose.

PP earmarked a budget of Rs.20 Lakhs for this purpose.

d). PP submitted the action plan for development of artificial forest over barren hills with at least 20% fruit bearing trees along with the budget as given below:

- i. PP proposed to plant maximum number of fruits bearing plant more than 20 % in the barren land with the help and consultation with Forest department and earmarked a budget of Rs.2 Lakhs per ha per year as per the availability of free barren land.

e) & f). PP submitted the action plan for control of fugitive emission during transportation and for protection of agricultural land due to fugitive dust emission as given below:

- i. Maximum transportation road will be black topped.
- ii. Truck mounted Water sprinkler will be engaged for water sprinkling on transportation road as per requirement.
- iii. Tarpaulin covered trucks will be deployed for transportation of bauxite ore from the mine head to railway siding to stop spillage on the way
- iv. Trucks / tippers will ply within permissible speed limit.
- v. Year-wise peripheral greenbelt development is planned to control dust pollution beyond the mine lease boundary.

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g). PP submitted the action plan for development of health facilities as suggested by the EAC, Members including the revisit of provision of ambulance facilities and doctor.

PP submitted that the action plan for Health Care Programme is divided in Phase wise over the period of 3 years and details are given below

S No	Phase	Scope	Estimated Budget (In Rs.)	Remarks
1	Phase-I: Focused approach to address immediate health priorities. (Curative Health Care)	a. Baseline study	2,00,000.00	-
		b. Set-up of health / Covid Care Center	12,00,000.00	-
		c. Providing ambulance facilities at the door step in the periphery villages.	12,00,000.00	-
		d. Conduct health Intervention Projects – 1 Per Quarter.	6,00,000.00	-
		e. Community mobilization & creation of digital health records.	90,000.00	-
		f. Operation of Mobile Health Unit (MHU) (Health Cube and Portable X-Ray Machine) The MHU will be used for primary health care delivery and outreach programmes including: Consultation with Doctor hired by Hindalco. General health check-up. Point of lab-investigations. Curative services for communicable and non-communicable diseases. Maternal and child health services. Health awareness & Counseling services.	31,00,000.00	-

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2	Phase- II : Set up a Model Health Centre.	Set-up PHC (Primary Health Centre) and establish system sustainability.	To Be Done	Proposal to establish MHC (1-3 Years).
	Total		63,90,000.00	

Budget allocated towards CSR Activities for Public Hearing Issues

Sr. No	Sector wise Activities	1 st Year (2022-2023)	2 nd Year (2023-2024)	3 rd Year (2024-2025)	TOTAL (In Lakhs)
Health & Family Welfare Activities					
	Primary Health Care Center.	63.90	25.00	25.00	113.90
	Increase the awareness programme and counselling service to the community with focus on health & wellness.				
	Capture health data of villagers and establish a foundation for a population health management system.				
	Strengthening infrastructure catering to long-term illness.				
	Establishing Model PHC (Public Health Care) Centre.				
	Total	63.90	25.00	25.00	113.90

h). PP submitted the action plan for provision of pucca roads and construction of check dam at Pakjhola Village and how these activities will be undertaken in terms of target wise, location wise, purpose wise and budget needs to be revised accordingly.

PP submitted the action plan for provision of pucca roads and construction of check dam is given below:

- PP proposed to conduct survey in the periphery villages for construction of pucca road. For this, an annual budgetary provision of Rs 20 lakhs is allocated.
- There is an existing check dam at Pakjhola village constructed by District Soil conservation watershed mission. PP will consult and request to concerned authority for capacity expansion of the said dam which will cater the water supply

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for a greater number of periphery villages. For this, budgetary provision of Rs. 20 Lakhs is allocated.

Point (v): The Project Proponent needs to revise the EMP budget at the mine lease area by including plantation in the mine lease, dust control facilities in the mine lease and the cost of monitoring equipment's.

Reply by PP: PP submitted that the EMP budget has been revised to Rs 774.74Lakhs

S. No.	Particulars	Unit Cost (Rs)	Total Units	Total Cost (Rs. In lakhs)
I	Air Pollution Control Equipment			
1	Truck Mounted Sprinkler	8,00,000	2	16.00
2	Continuous Ambient Air Quality monitoring station (CAAQMS) as per the CPC guide line	60,00,000	1	60.00
2	Weather station, (Automatic recording type)	1,50,000	1	1.50
3	RDS Sampler	80,000	4	32.00
	PM _{2.5} Sampler	100000	4	4.00
4	Spectrophotometer	80,000	1	0.80
5	Single pan balance	15,000	1	0.15
6	Relevant chemicals	50,000	Lumpsum	0.50
			Sub-total	114.95
II	Water and Wastewater Treatment			
1	Silting Tanks	50,000 (approx.)	5	2.50
2	Septic tanks/soak pits	25,000 (approx.)	2	0.50
3	Garland drain in present plan period	900mx1mx1m	Lumsump	5.60
4	Retaining wall in present plan period	865mx2mx2m	Lumsump	12.97
5	Check dam in present plan period	8 m x 1 m x 1m (10 No.s)	Lumsump	1.20
3	Equipment proposed for the laboratory	-	-	1.50
			Sub-total	24.27
III	Noise Control and Monitoring			
1	Noise level recording meter (Continuous integrating type)	1,50,000	1	1.50
2	Noise protective equipment such as ear muffs and	3,00,000	Lumpsum	3.00

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	enclosures			
			Sub-total	4.5
IV	Soil Sampling Equipment			
1	Augur, Spatula, and collecting trays	20,000	1 set	0.20
V	Ecological Restoration			
1	Plantation including provision of top soil	Lumpsum	-	37.50
2	Amount to be spent towards reclamation, restoration and afforestation within the ML area including green belt during the life of mine.	Lumpsum	117.35Ha	309.80
3	The cost of Rs. 2 Lakhs/hectare of land towards plantation over the undisturbed area with greenbelt area around the mine lease area	2 lakh per Hectare	141.760	283.52
			Sub-total	630.82
Total Cost (Rs. Lakhs)				774.74

Point (vi): The Project Proponent shall give an undertaking that the EMP prepared under EC dated 07.09.2006 under the EIA Notification 1994 was still in operation during the violation period or not. In the instant case, if EMP was not operated, then the total cost of saving on EMP shall be added to Community Resource Augmentation Plan (CRAP).

Reply by PP: PP submitted an undertaking vide letter dated 11.03.2022 stating that the EMP of Maliparbat Bauxite Mines for the EC dated 07.09.2006 under the EIA Notification 1994 was in operation during the violation period. As the mine was not in operational to the full capacity during the violation period, some of the environmental norms could not be completed. Therefore, Rs 15.0 Lakhs only could not be spent during the violation period which has been added in Community Resource Augmentation Plan (CRAP).

Community Resource Augmentation Plan (CRAP)							
Sr.No	Proposed Activity	Description	Location	Total Cost (in Lakh)	Year 1	Year 2	Year 3
1	Provision of solar lights	Installation of solar lighting	Villages of the	30.00	10.00	10.00	10.00

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		in villages where there are no street lights	buffer zone				
2	Provision of solar powered bore-well	Community bore wells within the buffer zone	Villages of the buffer zone	30.00	6.00	12.00	12.00
3	Drinking water	RO plants within the schools	Schools in the buffer zone	3.00	1.00	1.00	1.00
4	Health facility (Curative Health Care)	Ambulance facility at the door step in Peripheral villages and MHU with Health cube & portable X-Ray machine including the specialized Medical Check-up camps	Villages of the buffer zone	113.90	63.90	25.00	25.00
5	Agriculture	Agriculture & Animal Husbandry	Silting of streams	33.00	11.00	11.00	11.00
6	Infrastructure development	Construction of Community halls	Villages willing to donate plot	20.00	0.00	10.00	10.00
	Total (in Lakhs)			229.90	91.90	69.00	69.00
	As per the ADS point No.6, the unspent EMP amount of Rs 15,00,000 /- (present value of Rs.25,84,239) is carried forward and included in the above budget.						

Point (vii): The Project Proponent needs to submit the reclamation plan for mined out area of 109.0 ha and also the post mining land use. PP should also submit the plan for backfilling and OB management.

Reply by PP: PP submitted that the bauxite plateau is very much undulated in nature. There is a level difference from 1400 MSL to 1160 MSL. It comprises of three hillocks. Top RL and bottom RL of Hillock-1 is 1330 to 1160 MSL, Hillock-2 is 1280 to 1160 MSL

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and Hillock-3 is 1400 to 1280 MSL. Depth of bauxite occurrence varies from 10m to 24m from surface level. The surface profile after mining will be remain undulated due to variance in depth of bauxite occurrence. The total void created after mining could not be backfilled to its original position due to non-availability of OB as stripping ratio is very less, i.e., 1:0.05 T/m³. Overburden removed from the area will be back-filled / spread over the infertile khondalite exposed mined out area and plantation will be carried out at a reduced level. Below bauxite, khondalite occurs which is infertile and porous in nature. There is no possibility of accumulation of water on the quarry floor due to undulated and porous khondalite strata. A barrier of water garland will be constructed all around the proposed quarry/pit to stop the flow of water from quarry to outside mining lease during rain.

Point (viii): The Project Proponent should revise the quantification of ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also the damage due to the transportation of the mineral by road. PP should also include the non-provision of rain water harvesting structure and garland drains in the ecological damage assessment and PP needs to rework on the damage assessed for water consumption by considering the CGWA rate.

Reply by PP: PP submitted that the mining operations started during 2008 after execution of Lease deed on 08-11-2007. But the PP could not even attain at least 10% of the targets at any point of time. During 2008-09, PP produced 33,784 Tons against the annual target of 423360 tons. It accounts for less than 8% of the target. During the next year (2009-10), there was no mining at all. In 2010-11, PP produced 32,900 Tons against the annual target of 474320 tons. It works out to be 6.936% of target. Subsequently, there was nominal production of about 450 TPA. The PP was required to obtain fresh EC under the EIA Notification of 2006 in accordance with the MoEF&CC Guidelines (Vide Circular No. J-11013/41/2006- IA.II (I) dated 30.12.2010) but the PP failed to comply with the above and hence the validity of EC expired with effect from 7th September 2011. During the year 2011-12, 450 Tons of ore was produced before the expiry of the EC on 6th September 2011. Thus, no ore was produced during 2011-12 without valid EC. The violation period is limited to 2012-14 when a total of 900 tons of ore was produced at the rate of 450 TPA. This is the basis for subsequent calculations. PP submitted the revised ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also the damage due to the transportation of the mineral by road.

Activity/Parameters	Presumptive cost (Rs)	Amount Paid to Government	Amount to be carried forward	Net loss (-) / gain (+)
Economic benefits (1380 tons of bauxite @ 179	2,46,920	15,32,216	NIL	(-) 1285296

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per ton				
Cost of water used during violation period	23090	-	23090	(+) 23090
Presumptive cost of air pollution	798019	-	798019	(+)798019
Unspent balance from the earlier EMP (Vide Point No.6 of ADS)	15,00000 (Actual unspent balance in 2011-12)		Present value 25,84,239	(+)25,84,239 The amount is included in the CRAP budget.
Presumptive cost of crop damage	NIL	-	-	
Presumptive cost of loss of soil	NIL	-	-	
Presumptive cost of loss of Biodiversity		-	-	
Note: 6700 trees were planted in 2.5 Ha during the violation period using the amount allocated for EMP				
Bank Guarantee to be given for	-			34,05,348

Further, PP submitted that the Operational Rainwater harvesting pond had been developed in an area of 0.138 ha. Garland drains were developed around the waste dump. Damage due to non-provision of garland drains has been included in the revised the ecological damage assessment. But damage assessment for water consumption by considering the CGWA rate has not been calculated and incorporated in ecological damage assessment for the following reasons:

- i. According to the Gazette of India Notification No. CG-DL-E-24092020-221952 dt. 24-9-2020, the highest rate applicable for a mining project which uses <100 m³ per day is Rs.4/- per m³, if it is located in an over-exploited area (Vide Table 5.4 A: Rates of ground water abstraction charges for mining (Rs. per m³) on pages 41 & 42 of the aforesaid notification). The CGWA rates are specifically for the groundwater. In the present case, the Odisha State Revised 2021 bulk supply rate of Rs.6.75/- per m³ for commercial use was considered.
- ii. Garland drains are primarily provided to divert the surface runoff away from the working pits and not to allow any surface runoff in the working pits. Mining activity was confined to a hill top and the activity is was in the initial stages covering only 1.700 Ha. The area around mine pit has natural slope (hill slop) draining the surface runoff downwards.

- iii. There was no damage to ecology, flora, fauna, soil and water regime on account of non-creation of a garland drain. In fact, a garland drain would have caused damage to the vegetation on account of excavation of a trench and bunding. However, in future if mining activity is resumed, the PP will provide garland drains as per the approved mining plan besides providing a series of semilunar trenches along the hill slope to retard flow of rain water; to promote ground water recharge and to trap silt and debris carried by the rain water.

Point (ix): The cost for Natural Resource Augmentation Plan (NRAP) calculation also needs to be revised by PP.

Reply by PP: PP has submitted the revised cost for Natural Resource Augmentation Plan (NRAP) as mentioned below:

Natural Resource Augmentation Plan (NRAP)									
S.No	Proposed Activity	Description	Location	Unit Rate	Total Quantity	Total Cost in Rs Lakh	Yr 1	Yr 2	Yr 3
1	Tree Plantation on barren hills	Fruit -trees at lower levels of barren hills	Hill top within the mine lease	500 per tree	1000	5.0	2	2	1
2.	Afforestation of barren hills	Broadcasting the pelletized seeds over the barren hills & Plantation of fruit trees	Barren hills around the mine lease.	2,00000 per ha	5 ha	10	2	3	5
3	Avenue Plantation	Road side plantation	Enroute the transport	500 per tree	1000	5	2	2	1
4	Rain water harvesting	Construction and maintenance of rain water harvesting structures in villages	5 villages within the buffer zone	2	5	10	3	3	4
Sub-total (b)						30	9	10	11

Point (x): The Project Proponent needs to submit the copy of demand deposition made to the State Government in the PARIVESH portal. PP should also submit the details of the credible action taken against the PP with the supporting document.

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Reply by PP: PP submitted that the credible action has been taken in accordance with the provisions of Sections 15 and 19 of the Environmental Protection Act, 1986. The action is pending from the State Government and the OSPCB. In accordance with the demand notice from the Office of the Deputy Director of Mines, Koraput vide No.34 dated 03.01.2022, the PP has paid Rs.15,32,216/- through SBI net banking on 10-01-2022.

Point (xi): The Project Proponent needs to submit the authenticated past production details along with Annexure III in the PARIVESH portal.

Reply by PP: PP submitted the copy of authenticated past productions details from the Office of the Deputy Director of Mines, Koraput vide Lr No 826/Mines, dated 17.07.2020 for the year 2008-09 to 2013-14 along with Annexure III in the PARIVESH portal.

Point (xii): The Committee noted that the ToR dated 08.02.2021 granted for a production capacity of 0.6 MTPA of Bauxite, over an ML area of 268.110 Ha. Hence, the PP needs to clarify whether the proposal for inclusion of crusher with a capacity of 200 TPH was also a part of Terms of Reference accorded on 08.02.2021. PP also needs to submit the breakup of total excavation in tonnes.

Reply by PP: PP submitted that the proposal of inclusion of crusher with a capacity of 200 TPH was also a part of Terms of Reference (TOR) accorded on 08.02.2021. PP also submitted the breakup of total excavation in tonnes as given below.

Year	Name of Quarry	Total Excavation in (t)	Top Soil (t)	OB+SB + IB (t)	ROM (t)			ROM / waste Ratio (t / t)
					Ore (t)*	Mineral reject (t)	Total (t)	
IV (2021-22)	Quarry -1	5,40,632	16,560	24072	454,591	45,409	500,000	1:0.048
V (2022-23)	-do-	6,21,768	1,980	19,788	545,509	54,491	600,000	1:0.033
Total	--	11,62,400	18,540	43,860	1,000,100	99,900	1,100,000	1:0.040

Point (xiii): The Project Proponent submitted that the one small dump exists on the mineralized area within the mine lease area spreading over an area of 1.42ha with dimension of 355m x 40m. Hence, PP shall explore the possibility of shifting the dump to the non-mineralized area and also needs to submit the map for the same.

Reply by PP: PP submitted that the back filling & reclamation will start from 6th year of current plan period so OB present in the existing dump will use for back filling. As OB generation is very less so we can accommodate the OB generation for backfilling and it is a continuous process. There will be no permanent dump within mineralized area. So, there is no the possibility of shifting the dump to the non-mineralized area. Hence, there will be no change in the existing reclamation plan.

Point (xiv): The Project Proponent should submit the list of Schedule – I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area.

Reply by PP: PP submitted that there are no Schedule – I species present in the lease area, National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/Elephant Reserve/any other Reserve, Habitat for migratory birds and Corridor for animals within 10 km of the lease area. The mine lease area is non-forest land. A letter to Principal Chief Conservator of Forest (PCCF), Wild Life, Bhubaneswar for authentication of flora & fauna has already been submitted.

Point (xv): The Project Proponent needs to submit the details of court case filed vide W.P (C) No. 473 of 2022 before the Hon'ble High Court of Orissa regarding the challenge of the public hearing held on 22.11.2021 and its current status.

Reply by PP: PP submitted that one court case has been received vide W.P.(C) No. 473 of 2022 on dated 19.02.2022 just after the 46th EAC meeting and PP has filed writ petition before Hon'ble High Court of Orissa on dated 07.03.2022.

Point (xvi): The Project Proponent needs to upload all the supporting documents as Annexures in the PARIVESH portal. PP should not provide any link format to download the documents.

Reply by PP: PP has submitted all the supporting documents as Annexures and the same has been uploaded in PARIVESH Portal

5. The Ministry of Environment, Forest and Climate Change vide Lr No F.No J-11015/79/2020-IA.II(M) dated 08.02.2021 requested the Secretary, Department of Forest & Environment, Govt. of Odisha to initiate action under the provisions of section 19 of the Environment (Protection) Act, 1986 against the project.

6. **The details of the previous Environmental Clearance (EC) are furnished as below:**

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Date of application	Proposal No/ F.No	Consideration	Details	Date of accord
12.11.2005	IA/OR/MIN/ 162406/2005 F.No: J- 11015/411/2005- IA.II (M)	-	Environmental Clearance for Maliparbat Bauxite Mining project of M/s Hindalco Industries Limited for production capacity of 0.6 MTPA of bauxite ore by opencast mechanized method involving total lease area of 268.11ha under the provisions of the EIA Notification, 1994.	07.09.2006

7. The details of the Terms of References (TOR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
28.12.2020	IA/OR/MIN/ 189627/2020	11 th - 13 th January, 2021	Terms of Reference (ToR) for undertaking detailed EIA/EMP study for a production capacity of 0.6 MTPA of Bauxite, over an ML area of 268.110 Ha.	08.02.2021

8. Details of Mine lease:

S.no	Prospecting License/Letter of Intent/Grant of mine lease order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Grant of mine lease for a period of 20 years vide Lr No. 5480/ III(BX) SM.16/ 2003/SM, Bhubaneswar	19.06.2007	Bauxite	20 years	Department of Steel & Mines, Government of Orissa	268.11 ha

9. Details of executed Mine leases:

S.no	Date of grant of	Period of Grant	Details
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	Lease execution	From	To	
1	Date of entering into original lease deed.	08.11.2007	07.11.2027	Mining lease deed executed on 08.11.2007 between the Governor of Orissa and M/s Hindalco Industries Limited and registered on 14.11.2007 for the term of 20 years.

10. Land use/Land Cover of the Mine Lease Area:

Private land	Nil
Government land	268.11 ha
Total Mining lease area (MLA)	268.11 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

11. Details of Mine Plan:

Modification of Review of Mining Plan along with the Progressive Mine Closure Plan approved by the Indian Bureau of Mines (IBM), Bhubaneswar	Letter No.	MPM/A/06-ORI/BHU/2021-22
	Date	04.08.2021
	Validity	2021-22 to 2022-23
	Mineral	Bauxite
	Mine lease area	268.110 ha
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized method	
Total Geological Resource/Reserves	15.06 MT	
Mineable Reserves	14.74 MT	
Life of Mine	25 years	
Bench Height	6 m	
Bench Width	9 m	
Individual bench slope	75°	
Overall pit slope	45°	
Transportation details	PP submitted that the Tippers of 10 Ton / matching capacity will be utilized for transportation of ore to the stacking site and overburden / waste to the dumping site. The ore produced at the ML area will be transported to the Rail siding at Dumuriput located about 25 km by road using 18 Ton/matching capacity trucks. Depending on location of end use plant, bauxite will be transported either using road /road cum railway. PP submitted the action plan for strengthening of road for transportation i.e., upto highway 7.5 km and from	

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	highway to railway siding – 1.0 km. The time period of development of road from starting of the road construction will be 10 months.
RoM output size	1 (m ³) of Bauxite : 0.039 (m ³) OB
Topsoil	PP reported that total of 10,300 m ³ of topsoil will be generated during plan period which will be stacked over an area of 5,150m ² in one terrace of 2m average height and 3m maximum height. However, topsoil will be utilized for rehabilitation of waste dump and mined out area concurrently.
OB/SB/IB	PP reported that 21,500 m ³ OB /Aluminous laterite is likely to be generated during plan period. Out of these, 11,800 m ³ OB will be systematically / scientifically stored / dumped temporarily over an area of 2,950 m ² or 0.295 ha in one terrace of 4m average height and 7m maximum height in a retreating method by extending the SW part of existing Dump-1 towards NE part. Remaining 9,700 m ³ OB generated during 2022-23 will be systematically/ scientifically stored/dumped in the mined out area over 4,850 m ² with 2 m average thick filling after exhaust of bauxite. Overburden removed from the area will be back-filled / spread over the infertile khondalite exposed mined out area and plantation will be carried out at a reduced level. Below bauxite, khondalite occurs which is infertile and porous in nature. There is no possibility of accumulation of water on the quarry floor due to undulated and porous khondalite strata. A barrier of water garland will be constructed all around the proposed quarry/pit to stop the flow of water from quarry to outside mining lease during rain.
Mineral reject	PP reported that total of 49,456 m ³ mineral reject / sub-grade bauxite is likely to be generated during plan period. Out of these, 40 % of mineral reject / sub-grade will be blended and remaining 60 % will be stacked in a forwarding method over an area of 8,891 m ² or 0.889 ha in one terrace of 3 m average height and 5 m maximum height.
Details of existing dump	PP submitted that one (1) small dump (D-1) exists on the mineralized area within lease area spread over an area of 1.42 hectares with dimension of 355m x 40m. PP submitted that the back filling & reclamation will start from 6th year of current plan period so OB present in the existing dump will use for back filling. As OB generation is very less so we can accommodate the OB generation for backfilling and it is a continuous process. There will be no permanent dump within mineralized area. So, there is no the possibility of shifting the dump to the non-mineralized area. Hence, there will be no change in the existing reclamation plan.

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Details of existing stack	PP reported that two sub-grade stacks exist in the lease area spread over an area of 8,400 m ² or in 0.840 hectare. A total of 6,141 Ton quantity is stacked.
Mineral Beneficiation	PP submitted that there is no beneficiation or processing of ROM is proposed as the 91% of ROM is of usable grade while only 9% is sub-grade ore (which will also be utilized after proper blending with usable grade).
Crusher	PP submitted that the mobile crusher of 200 TPH capacity will be installed within the lease area for crushing the run-off mine bauxite ore.
Conceptual Land Use	PP submitted that at the end of conceptual period, out of total mine lease area of 268.11 ha, 109 ha will be excavated and will be restored by reclamation and rehabilitation. Back-filling/concurrent internal dumping for such reclamation and rehabilitation will start from 6 th year of current plan period, 8.350 ha will be under green belt/peripheral plantation and remaining 150.760 ha will be undisturbed.
Ultimate Working Depth	24.8 m from the surface level of the plateau top and PP submitted that no mining activity will be carried out on hill slope
Water Table	250-300m from the surface level of Hill top or 8 -13 m below ground level
Groundwater intersection	PP reported that the water table will not be intersected due to 24.8m deep mining at the plateau top.

12. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Aerial Distance & Direction
Nearest Village	Tentuliguda village	0.7 km, WSW
	Kakriguda	1.0km, W
Nearest Town	Semeliguda	5.4 km, NW
	Koraput	25.0 km, NW
Nearest Highway	NH-43	1.0 km, West
Nearest Railway Station	Damanjodi RS	10.9 km, NNW
Nearest Water Bodies	i. KukurhaghatNala	1.1 km, S
	ii. KunduliNala	3.7 km, SE
	iii. Kolab River	4.2 km, W
	iv. Karandi River	4.8 km, NNW
	v. Sunabeda Reservoir	5.8 km, WNW
	vi. KatraNala	7.6 km, NNW
	vii. PathagarhNala	7.9 km, WSW
	viii. PottangiNala	7.6 km, S

13. Water requirement:

Total water requirement	61.0 KLD [Fresh water:58.0 KLD & Treated water:3.0 KLD]	Domestic	3.0 KLD
		Wet drilling	4.0 KLD
		Washing of machines	10.0 KLD
		Dust suppression during mining and processing	40.0 KLD
		Plantation	4.0 KLD
Source	Kundli Nala		
Permission	<p>i. PP submitted that the letter from the Office of the Executive Engineer, Koraput vide Lr No. DB-174/Hindalco dated 11.01.2021 stating that the M/s Hindalco Industries Ltd, Semiliguda has renewed its agreement after deposition of 3 months advance water charges in shape of FDR and 9 months bank guarantee as per the prevailing rate in accordance with CI 7 of the allocation letter along with the certified copy of the agreement.</p> <p>ii. PP also submitted the agreement made on 01.01.2021 between M/s Hindalco Industries Ltd and Governor of Orissa for the supply of water for the purpose of Industrial/Commercial use of 61m³/day from Kunduli Nala on the upstream of upper Kolab reservoir crossing NH-43 about 4km from the site and this agreement shall be valid for a period of three years from the date of execution subject to the renewal of agreement by the Executive Engineer.</p>		

14. The Project Proponent submitted that the entire lease area falls in hilly area under the revenue class of "Pahad and Parbat" and there is no forest land involved in the mine lease area. PP reported that there are no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger/Elephant Reserves within the 10km radius of the study area. Further, PP reported that the following Reserve Forest such as Pitagurha PF (8.9 km, WSW) and Dushura RF (9.7 km, WSW) are found within 10km radius of the study area.

15. The Project Proponent reported that there is no Schedule-I species found in the study area.

16. The Project Proponent reported that the total mine lease area is 268.11 ha and out of which 8.350 ha will be utilized for green belt/periphery plantation and the remaining will be left undisturbed/planted suitably. PP earmarked a budget of Rs. 1.5 Lakhs/hectare towards greenbelt development around the mine lease area. PP vide email dated 20.04.2022 submitted the revised budget proposed for plantation from 19 years to 5 years with capital expenditure as Rs 318,22,000 Lakhs and Rs 31,82,200 Lakhs as recurring expense @ 10%.

17. Baseline details:

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The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Post monsoon Season i.e., October, 2020 to December, 2020. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of October, 2020 to December, 2020 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	October, 2020 to December, 2020				
AAQ parameters at 10 locations	Pollutant	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	98 %ile, $\mu\text{g}/\text{m}^3$	Standard, $\mu\text{g}/\text{m}^3$
	PM2.5	12.8	30.9	30.6	60
	PM10	28.8	87.7	87.4	100
	SO ₂	6.1	28.3	28.3	80
	NO _x	6.3	46.7	46.6	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, $\mu\text{g}/\text{m}^3$	Incremental Concentration, $\mu\text{g}/\text{m}^3$	Total GLC, $\mu\text{g}/\text{m}^3$	Standard
	PM2.5	14.2	4.9	19.1	60
	PM10	50.1	16.4	66.5	100
	SO ₂	7.4	6.29	14.0	80
	NO _x	9.5	2.72	12.3	80
Noise level at 11 locations	Day Time: 38.1 to 66.3 Leq dB (A) Night Time: 32.1 to 58.9 Leq dB (A)				
Ground water quality at 8 locations	PP reported that pH was in the range of 7.06 -7.62 and within the specified standard limits of 6.5 to 8.5. Electrical conductivity of the samples ranged from 277 – 1104 $\mu\text{S}/\text{cm}$. The maximum concentration is found in Kunduli (GW6) and minimum concentration is found in Doliamba (GW7). Calcium and magnesium concentrations ranged from 18.3- 69.8 mg/l and 9.4 – 29.6 mg/l respectively. The total dissolved solids of the samples ranged from 172 - 693.3 mg/l and within the stipulated 2000 mg/l. Iron concentrations in ground water varied from 0.06 - 0.14 mg/l. Zinc levels varied from 0.02 mg/l to 0.21 mg/l respectively. Aluminium concentration in ground water is 0.03- 0.11 mg/l and the limits stipulated. All other metal concentrations are observed to be below detectable limits. The total coliform counts are absent in all the samples against the standard limit of 10 MPN/100 ml. The ground water quality in the study area does not indicate any industrial contamination.				
Surface water quality at 7 locations	PP reported that pH value was observed to be in the range of 6.82 to 7.56 and Electrical conductivity was observed to be in the range of 127 $\mu\text{S}/\text{cm}$ to 177 $\mu\text{S}/\text{cm}$. The Dissolved Oxygen (DO) was observed in the range of 5.6 mg/l to 6.2 mg/l. The maximum and minimum concentration was found in Kunduli Nala (SW2) and Sunabed reservoir (SW5). Fluoride concentration was found to be in the range of 0.4 mg/l to 0.7				

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	mg/l. The maximum Fluoride concentration was found in Karandi River (SW6) and minimum concentration was found in Kukurhaghat Nala (SW1). Cyanides and phenolic compounds found to be below detection limits. Bacteriological studies revealed that the total coliform count is measured 1020-1360 MPN/100 ml. The surface water quality in the study area does not indicate any industrial contamination.
Soil quality at 10 locations	PP reported that the pH of the soil in the study area ranged from 5.74 to 7.24, indicating moderately acidic to neutral category. Electrical Conductivity observed to be in the range of 38.0 µmhos/cm to 164 µmhos/cm, indicating average category. The nitrogen values ranged between 85.4 to 173.2 kg/ha indicating less to better category. The phosphorus values ranged between 28.9 to 46.8 kg/ha, indicating less to medium category. The potassium values ranged between 108.4 – 214.8 kg/ha indicating very less to medium category.
Traffic study	PP reported that the traffic studies were carried out near the project site for 24-hours on each site between October to December, 2020. The major traffic bearing road connecting the ML area is identified on State Highway, NH-43 which is the nearest highway connecting the ML area. Two major junctions, one near at Semiliguda Junction and other near Damanjodi junction was identified as major intersections where traffic can be accounted. The individual traffic units have been converted to Passenger Car Unit (PCU) for comparison with IRC standards. The total figure of PCUs recorded during the study period was about 2011 PCUs per day.

18. Public Hearing (PH) Details:

Advertisement for PH with date	Daily News Paper “The Times of India” and “Samaj” on 19.10.2021
Date of PH	22.11.2021
Venue	Khata No. 27, Plot No. 40 (P) in Kankaramba village under Semiliguda Tehsil, Koraput District
Chaired by	Additional District Magistrate, Koraput
Main issues raised during PH	Protection of air & water environment, Protection of downhill lands due to soil erosion from mines, Preservation of streams water for agricultural purposes, Development of forest over barren hills & plantation of fruit bearing Trees in the locality, Control of fugitive dust emission during transportation of bauxite ore from the mine & protection of agricultural land, Development of forest over barren hills & plantation of fruit bearing Trees in the locality, Employment, Development of education facilities, Development of health facilities, Provision of Pucca Roads, Priority for local people in transportation activities,

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	Construction of Check dam at Pakjholā Village etc
Budget proposed for addressing issues raised during PH	Rs. 4.53 Crores to be spent in next 3 years.
Action Plan	PP earmarked a budget of Rs 114.95 Lakhs towards air pollution & Rs.24.27 Lakhs towards water pollution, Rs 283.52 Lakhs towards plantation over the undisturbed area with greenbelt area around the mine lease area, Rs.20 Lakhs towards preservation of stream water for the use of agriculture purpose, Rs.2 Lakhs per ha for development of artificial forest over barren hills with at least 20% fruit bearing trees, Rs 63.90 Lakhs for development of health facilities and Rs 20.0 Lakhs for provision of pucca roads and construction of check dam at Pakjholā Village.

19. The Project Proponent submitted the Integrated Regional Office (IRO), Bhubaneswar carried out the site visit on 04.02.2021 and submitted the certified EC compliance report vide Lr No. 101-207/EPE/308 dated 22.02.2021 for the Environment Clearance dated 07.09.2006 wherein the IRO mentioned that since last 7 years the mine has not been in operation, point wise status of compliance to the stipulations of Environment Clearance would be verified at site only after the commencement of the mines. PP also needs to take up plantation and green belt development in and around the mine once the law-and-order situation in the area is restored to normalcy. IRO also noted that there has been gully formation all along the pathway up the M/s Hindalco Industries Limited affecting the road as well as safety during movement and PP needs to construct catch drains for proper drainage of water during the rains. Measures may also be taken to arrest soil erosion through plantation. PP also submitted the Consent to Operate issued by the State Pollution Control Board, Odisha vide Order No: 3833/IND-I-CON-5437 dated 27.03.2020 for production of 0.6 MTPA of Bauxite and is valid for the period from 01.04.2020 to 31.03.2022.

20. The Project Proponent obtained Environment Clearance on 07.09.2006 under the EIA Notification, 1994; validity of the EC was only for 5 years i.e., 06.09.2011 and the PP has operated the mines from 2012 to 2014 without obtaining Environment Clearance under EIA Notification, 2006. PP submitted the authenticated past productions details from the Office of the Deputy Director of Mines, Koraput vide Lr No 826/Mines, dated 17.07.2020 for the year 2008-09 to 2013-14. PP also submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing N 354407 dated 03.02.2022 that in pursuance of MoEF&CC Letter No: F.No:3-50/2017-IA.III(Pt.) dated 30.05.2018 and guidelines, this is to undertake that, M/s Hindalco Industries Limited would comply with all the statutory requirements with respect to Maliparbat Bauxite mines as applicable.

21. The Project Proponent submitted that the mining operations started during 2008 after execution of Lease deed on 08-11-2007 and the validity of EC expired on 06.09.2011. But the PP could not even attain at least 10% of the targets at any point of time. During 2008-09, PP produced 33,784 Tons against the annual target of 423360 tons. It accounts for less than 8% of the target. During the next year (2009-10), there was no mining at all. In 2010-11, PP produced 32,900 Tons against the annual target of 474320 tons. It works out to be 6.936% of target. Subsequently, there was nominal production of about 450 TPA. During the year 2011-12, 450 Tons of ore was produced before the expiry of the EC on 6th September, 2011. Thus, no mineral was produced during 2011-12 without valid EC. The violation period is limited to 2012-14 when a total of 900 tons of ore was produced at the rate of 450 TPA. This is the basis for subsequent calculations. PP submitted the revised ecological damage assessment by considering the violation period from 2011-12 to 2013-14 on pro rata basis and also the damage due to the transportation of the mineral by road. The actual land utilized at the start of FY 2012-13 was 5.098 ha and there was no horizontal or lateral expansion of mine lease. No new mine pit was opened and no expansion in the area under overburden dump. Hence, there was no change in land use and land cover during 2012-14 except an area of 2.5 ha was brought under greenbelt plantation with 6700 saplings. There was no change in the area used for the disposal of waste. No ground water was used for any purpose during the entire period. Further, PP submitted that the Operational Rainwater harvesting pond had been developed in an area of 0.138 ha. Garland drains were developed around the waste dump. Damage due to non-provision of garland drains has been included in the revised the ecological damage assessment. The total surface water used during the period of violation was 2279.58 KL, which costs Rs. 11,398/- @ Rs.5/- per KL. Ambient air quality with respect to PM_{2.5}, PM₁₀, SO₂ and NO₂ within the mine lease area and other areas around the mine lease such as Doliamba, Railway Siding, Kakadamba, Rajanguda, Aligoan, Bhitarikota and Mohanpada were carried out for a period of six months from May to September 2015 and the concentration observed to be with stipulated ambient air quality standards. Based on the violated production quantity of 450 ton in each year during the year 2012-13 and 2013-14, the presumptive damage to air quality has been calculated to be total of Rs.5,10,768. Mining was done in the pit opened during 2008-09 only. Neither the overburden dump nor the top soil dump was expanded after 2012-14. No tree was lost on account of mining. Only the most notorious invasive shrubs were lost from an area of 5.098 ha. There was no damage to the flora and fauna around the mine lease either on account of mining or transport of ore etc. PP submitted an undertaking vide letter dated 11.03.2022 stating that the EMP of Maliparbat Bauxite Mines for the EC dated 07.09.2006 under the EIA Notification 1994 was in operation during the violation period. As the mine was not in operational to the full capacity during the violation period, some of the environmental norms could not be completed. Therefore, Rs 15.0 Lakhs only could not be spent during the violation period

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

which has been added in Community Resource Augmentation Plan (CRAP). PP vide email dated 20.04.2022 submitted the revised ecological and restoration plan, Natural Resource and Community Resource Augmentation plan as mentioned below in Table. PP also submitted that budget of Rs 279,90,000 Lakhs has been earmarked towards bank guarantee.

Ecological Remediation and Restoration Plan										
S.No	Component	Proposed Activity	Description	Location	Unit Rate (Lakh)	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Water environment	Rain water harvesting	On-site rainwater harvesting and ground water recharge	Mine lease	2.5	4	10	5	3	2
2	Air environment	Dust suppression and	Spraying of water during dry season	Outside the mine lease	2.5	2	5	2	2	1
3	Avenue plantations	Habitat improvement	Multipurpose trees along road sides	Outside the mine lease	500	100	5	2	2	1
Total							20	9	7	4

Natural Resource Augmentation Plan (NRAP)									
Sr.No	Proposed Activity	Description	Location	Unit Rate	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Tree Plantation on barren hills	Fruit -trees at lower levels of barren hills	Hill top within the mine lease	500 per tree	1000	5.0	2	2	1
2.	Afforestation of barren hills	Broadcasting the pelletized seeds over the barren hills & Plantation of fruit trees	Barren hills around the mine lease.	2,00,000 per ha	5 ha	10	2	3	5
3	Avenue Plantation	Road side plantation	Enroute the transport	500 per tree	1000	5	2	2	1

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

4	Rain water harvesting	Construction and maintenance of rain water harvesting structures in villages	5 villages within the buffer zone	2	5	10	3	3	4
	Total					30	9	10	11

Community Resource Augmentation Plan (CRAP)							
Sr.No	Proposed Activity	Description	Location	Total Cost (in Lakh)	Year 1	Year 2	Year 3
1	Provision of solar lights	Installation of solar lighting in villages where there are no street lights	Villages of the buffer zone	30.00	10.00	10.00	10.00
2	Provision of solar powered bore-well	Community bore wells within the buffer zone	Villages of the buffer zone	30.00	6.00	12.00	12.00
3	Drinking water	RO plants within the schools	Schools in the buffer zone	3.00	1.00	1.00	1.00
4	Health facility (Curative Health Care)	Ambulance facility at the door step in Peripheral villages and MHU with Health cube & portable X-Ray machine including the specialized Medical Check-up camps	Villages of the buffer zone	113.90	63.90	25.00	25.00
5	Agriculture	Agriculture & Animal Husbandry	Silting of streams	33.00	11.00	11.00	11.00
6	Infrastructure development	Construction of Community halls	Villages willing to donate plot	20.00	0.00	10.00	10.00

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

	Total (in Lakhs)	229.90	91.90	69.00	69.00
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Sr.No	Description	Budget in Rs (Lakhs)
1	Ecological restoration plan	20,00,000
2	Natural Resource Augmentation Plan (NRAP)	30,00,000
3	Community Resource Augmentation Plan (CRAP)	22,990,000
	Total	27,990,000

22. The Project Proponent submitted that the Resettlement & Rehabilitation (R&R) plan is not applicable for this project.

23. The Project Proponent submitted the order sheet dated 11.01.2014 dictating restraining orders from 500 meters of the Mali Parbat mining and dumping yard at Kankadaamba village promulgated U/S of Cr.P.C 144 issued by the District Magistrate of Koraput stating sufficient evidence of public disorder and order to be enforced by Semiliguda Police Station. PP also submitted the order sheet dated 20.08.2014 that the general public are abstain U/S 144 Cr.P.C from entering into 500 meters of the Mali Parbat mining and dumping yard at Kankadaamba area. The I.I.C of Semiliguda Police Station is disposed to promulgate the order immediately and report compliance. PP submitted that the credible action has been taken in accordance with the provisions of Sections 15 and 19 of the Environmental Protection Act, 1986. In accordance with the demand notice from the Office of the Deputy Director of Mines, Koraput vide No.34 dated 03.01.2022, the PP has paid Rs.15,32,216/- through SBI net banking on 10-01-2022. The action is pending from the State Government and the OSPCB. Further, PP submitted that one court case has been received vide W.P.(C) No. 473 of 2022 on dated 19.02.2022 regarding challenge of public hearing just after the 46th EAC meeting and PP has filed writ petition before Hon'ble High Court of Orissa on dated 07.03.2022.

24. Affidavit/Undertaking details

Project Proponent submitted an Undertaking	M/s Hindalco Industries Limited has complied with all the prescribed Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide Letter No. J-11015/79/2020-IA.II(M) dated 08.02.2021. We undertake that the information and data provided in the EIA report and submitted to the Ministry are factually correct and project proponent is fully accountable for the same.
Consultant submitted an Undertaking dated 24.01.2022	The Consultant submitted an undertaking that the M/s Vimta Labs Limited has complied with all the prescribed Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide Letter No. J-11015/79/2020-IA.II(M) dated

08.02.2021.

25. Details of the EMP

Activities	Capital cost (Lakhs)	Recurring cost (Lakhs/annum)
Air Pollution Control Equipment	114.95	Rs 20 lakhs provision has been made for annual maintenance cost of pollution control equipment and environmental monitoring.
Water and Wastewater Treatment	24.27	
Noise Control and Monitoring	4.5	
Soil Sampling Equipment	0.20	
Ecological Restoration	630.82	
Total	774.74	

26. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	Rs 7.74 Cr
Budget for addressing the Public Hearing issues	Rs. 4.53 Cr
Total Cost for EMP	Rs 7.74 Cr
Recurring Cost for EMP	Rs 0.2 Cr
Project Cost	Rs 23.72 Cr
Employment	120 No.s

27. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 49th EAC (Non Coal Mining) meeting held during 19th- 21st April, 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal under SOP dated 7th July, 2021 for grant of Environmental Clearance for M/s Hindalco Industries Ltd is for **mining of Bauxite in Maliparbat Bauxite mine with total excavation of 11,62,400 Tonnes (Bauxite:1,100,000 Tonnes (ROM) + Topsoil:18,540 Tonnes + OB/SB/IB:43,860 Tonnes)** in the mine lease area of 268.110 ha, located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects:

- The Environmental Clearance (EC) will be valid upto 07.11.2027 only.
- EAC recommended for an amount of Rs. 2.79/- Cr towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

Augmentation plan and Community Resource Augmentation plan with budgetary provisions are mentioned below:

Ecological Remediation and Restoration Plan										
S.No	Component	Proposed Activity	Description	Location	Unit Rate (Lakh)	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Water environment	Rain water harvesting	On-site rainwater harvesting and ground water recharge	Mine lease	2.5	4	10	5	3	2
2	Air environment	Dust suppression and	Spraying of water during dry season	Outside the mine lease	2.5	2	5	2	2	1
3	Avenue plantations	Habitat improvement	Multipurpose trees along road sides	Outside the mine lease	500	100	5	2	2	1
Total							20	9	7	4

Natural Resource Augmentation Plan (NRAP)									
Sr.No	Proposed Activity	Description	Location	Unit Rate	Total Quantity	Total Cost in Rs Lakh	Year 1	Year 2	Year 3
1	Tree Plantation on barren hills	Fruit -trees at lower levels of barren hills	Hill top within the mine lease	500 per tree	1000	5.0	2	2	1
2.	Afforestation of barren hills	Broadcasting the pelletized seeds over the barren hills & Plantation of fruit trees	Barren hills around the mine lease.	2,00000 per ha	5 ha	10	2	3	5
3	Avenue Plantation	Road side plantation	Enroute the transport	500 per tree	1000	5	2	2	1
4	Rain water harvesting	Construction and maintenance of rain water	5 villages within the	2	5	10	3	3	4

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

		harvesting structures in villages	buffer zone						
	Total					30	9	10	11

Sr.No		Description		Budget in Rs (Lakhs)			
Community Resource Augmentation Plan (CRAP)							
Sr.No	Proposed Activity	Description	Location	Total Cost (in Lakh)	Year 1	Year 2	Year 3
1	Provision of solar lights	Installation of solar lighting in villages where there are no street lights	Villages of the buffer zone	30.00	10.00	10.00	10.00
2	Provision of solar powered bore-well	Community bore wells within the buffer zone	Villages of the buffer zone	30.00	6.00	12.00	12.00
3	Drinking water	RO plants within the schools	Schools in the buffer zone	3.00	1.00	1.00	1.00
4	Health facility (Curative Health Care)	Ambulance facility at the door step in Peripheral villages and MHU with Health cube & portable X-Ray machine including the specialized Medical Check-up camps	Villages of the buffer zone	113.90	63.90	25.00	25.00
5	Agriculture	Agriculture & Animal Husbandry	Silting of streams	33.00	11.00	11.00	11.00
6	Infrastructure development	Construction of Community halls	Villages willing to donate plot	20.00	0.00	10.00	10.00
	Total (in Lakhs)			229.90	91.90	69.00	69.00
	1	Ecological restoration plan			20,00,000		
	2	Natural Resource Augmentation Plan (NRAP)			30,00,000		

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

3	Community Resource Augmentation Plan (CRAP)	22,990,000
	Total	27,990,000

- iii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 2.79/- Cr. Therefore, Project Proponent shall be required to submit a bank guarantee of an amount of Rs. 2.79/- Cr towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- iv. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
- v. 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/mining personnel.
- vi. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- vii. The Project Proponent needs to submit the action taken report on plantation, damage recovery, Natural Resource Augmentation Plan (NRAP), Community Resource Augmentation Plan (CRAP) annually to the Ministry's Integrated Regional Office which should be monitorable and verifiable. The period of addressing these issues is restricted to a period of 3 years.
- viii. The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- ix. State Government concerned shall ensure that mining operation shall not commence 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 the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.

Minutes of 49th EAC Meeting (Non-Coal Mining) held during 19th to 21st April, 2022

- x. Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
- xi. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- xii. The mining lease holder shall, after ceasing mining operations, under take regreasing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- xiii. The budget of Rs 4.53 Cr to address the concerns raised by the public including 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.
- xiv. The Project Proponent shall undertake the plantation by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation and gap plantation shall be completed within 6 months from the start of mining operations. The casualties of each year shall be replaced every year with new saplings and such number of saplings shall not be counted in the number of saplings proposed to plant in that year. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation. PP shall undertake the progressive bench plantation up to HFL for eco restoration of water bodies. The Project Proponent shall ensure that the afforestation should be only of native species namely Sal.
- xv. 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.
- xvi. 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.

2.2 Proposal for Environmental Clearance of M/s RCCPL Private Limited for mining of Limestone in Bigodi Limestone mine with production capacity of 0.85 MTPA Limestone (ROM), 1.74 MTPA Waste/Reject, 0.44 MTPA of Top Soil/Alluvium (Total Excavation 3.03 MTPA) from the Mine Lease Area of 184.149

ANNEXURE-II : BANK GUARANTEE



**The Additional Director & Member Secretary
IA Division (Non-Coal Mining)**

Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj, New Delhi

Date: 17.05.2022

Sub: Submission of copy of acknowledgment of Bank guarantee of Rs. 2,79,90,000.00 submitted with SPCB towards budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan for **Maliparbat Bauxite mines** of Hindalco Industries Limited over an area of 268.011ha. in Koraput District, Odisha.

Ref: 1. MoEF&CC - MoM of 49th EAC meeting held dated 20th April 2022 agenda item No. 2.1
2. Our BG submitted vide letter No. HIL/SEM/MS/OSPCB/2022-23/57 dated 13th May 2022 with the SPCB, Odisha.
3. Proposal No. IA/OR/MIN/250275/2020 & F. No. J-11015/79/2020-IA II (M)

Respected Sir,

In the MoM of 49th EAC (Non-coal mining) meeting held during 19th to 21st April, 2022, EAC recommended our EC proposal for Maliparbat Bauxite mines over an area of 268.011 ha. in Koraput District, Odisha with certain specific conditions. In the condition No. iii, it has been mentioned as:

"Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 2.79/- Cr. Therefore, Project Proponent shall be required to submit a bank guarantee of an amount of Rs.2.79/- Cr towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC."

In line with the above, the bank guarantee (No. 0544NDLG00035823 dated 11-05-2022) for Rs. 2,79,90,000.00 valid for a period of 5 years i.e. up to 10.05.2027 has been submitted in original with the SPCB, Odisha - **Copy attached.**

Sir, we are **submitting herewith the copy of acknowledgement** for your kind **consideration and issuance of EC letter in respect of Maliparbat Bauxite mine** of Hindalco Industries Limited.

Thanking you in anticipation.

Yours sincerely,
For **Hindalco Industries Ltd**

Dr. Vinod K Verma

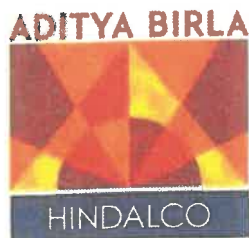
Sr. Vice President & Head – Regulatory Affairs (HIL)
Aditya Birla Group,
Parsvnath Capital Tower, Near Gole Market, New Delhi
Contact: +91 9990000260/+91 9990000404
Email: vinod.verma@adityabirla.com

Hindalco Industries Ltd.

8th Floor, Parsvnath Capital Tower, Bhai Vir Singh Marg, New Delhi – 110 001, India

T: +91 11 23464500, 66374500 | F: +91 11 2346 4591

W: www.adityabirla.com | Corporate ID No. L27020MH1958PLC011238



HIL/SEM/MS/OSPCB/2022-23/57

Date: 13th May'2022

To,

**The Member Secretary
Orissa State Pollution Control Board,
Paribesh Bhawan, A/118
Nilakanha Nagar, unit -VIII
Bhubaneswar.**

Sub: Submission of Bank guarantee of Rs.2,79,90,000.00 towards budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan for Maliparbat Bauxite mines of Hindalco Industries Limited over an area of 268.011ha at village Alligaon, Sorishpadar and Kankaramba, Potangi Tahasil, Koraput District, Odisha.

Ref: MoEF&CC -MoM of 49th EAC meeting held dated 20th April 2022

Respected Sir,

In the MoM of 49th EAC (Non coal) meeting held during 19th to 21st April, EAC recommended our EC proposal for Maliparbat Bauxite mines of Hindalco Industries Limited over an area of 268.011ha at village Alligaon, Sorishpadar and Kankaramba, Potangi Tahasil, Koraput District, Odisha with certain specific conditions. In the condition no iii, it has been mentioned as-

"Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 2.79/- Cr. Therefore, Project Proponent shall be required to submit a bank guarantee of an amount of Rs.2.79/- Cr towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC."

In line with the above the bank guarantee (No.0544NDLG00035823 dated 11-05-2022) for Rs.2,79,90,000.00 valid for a period of 5 years up to 10.05.2027 is enclosed herewith in original for kind consideration. It is requested to kindly acknowledge the receipt of the same for its onward submission to the MoEF&CC for grant of EC in respect of Maliparbat Bauxite mines of Hindalco Industries Limited.

Encl:-Original Bank guarantee bearing number (0544NDLG00035823 dated 11-05-2022) for Rs.2,79,90,000.00

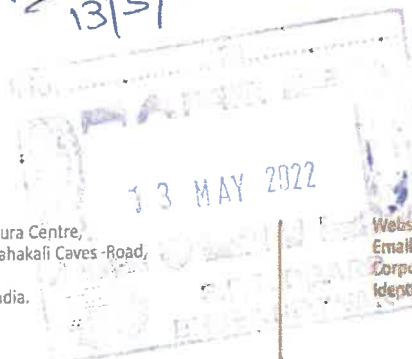
Thanking you.

Yours faithfully,

(Pratap Patra)

Agent- Maliparbat Bauxite Mines
Hindalco Industries Ltd.

Received
13/5/22



Ref: 0544NDLG00035823
Date: 11-05-2022

To,
MEMBER SECRETARY
STATE POLLUTION CONTROL BOARD
ODISHA (OSPCB)
PARIVESH BHAVAN, NILAKANTHA NAGAR
BHUBANESHWAR
INDIA

Sub: Issuance of Bank Guarantee

Dear Sir/Madam,

Please find attached Bank Guarantee issued by us favouring yourself on behalf of:

HINDALCO INDUSTRIES LIMITED, 1ST FLOOR AHURA CENTRE, B WING, ANDHERI EAST, MAHAKALI CAVES ROAD, MUMBAI, MAHARASHTRA, INDIA, 400093

Please find the details mentioned below.

Bank Guarantee No. & Date of Issue	Expiry Date	Claim Expiry Date	Currency	Amount of Bank Guarantee
0544NDLG00035823 11-05-2022	10-05-2027	10-05-2027	INR	2,79,90,000.00

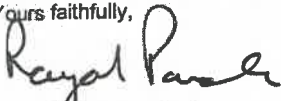
We confirm that the officials who have signed the above Bank Guarantee are authorized to sign such documents on behalf of ICICI Bank Limited. You may verify genuineness of the Bank Guarantee from any branch of ICICI Bank in your own interest.

In the event of invocation, we request you to please ensure compliance with the terms and conditions of the Bank Guarantee in order to ensure timely payment. You are requested to ensure special care inter alia with respect to the following in the invocation claim letter -

- Bank Guarantee Number
- Expiry/Claim Expiry date
- Claim Amount
- Designated Bank branch for submission of invocation claim
- Any declaration / certification that may be required as part of the guarantee text.
- Any other requisite document including the original Bank Guarantee.

Thanking you,

Yours faithfully,



For ICICI Bank Limited
Authorized Signatory

Royal Panda
Emp. ID-157490

ICICI Bank Limited

Regd. Office: ICICI Bank Tower,
Near Chakli Circle,
Old Padra Road,
Vadodara 390 007, India.
CIN : L65190GJ1994PLC021012
Website-www.icicibank.com

Customer Care Centres	Phone Nos.
Retail Customer Care	1860 120 7777
Wealth Management	1800 103 8181
Business Banking	1860 120 6699
I-Direct	1860 123 1122



ଓଡ଼ିଶା ଆଓଡ଼ିଶା ODISHA

N 324942

BG No- 0544NDLG00035823

Issue Date: 11-05-2022

This Stamp Paper is an integral part of BG No:- 0544NDLG00035823 issue date:- 11-05-2022 for INR 2,79,90,000.00/- (Rupees Two Crore Seventy Nine Lacs Ninety Thousand only) favouring "MEMBER SECRETARY, STATE POLLUTION CONTROL BOARD, ODISHA (OSPCB), PARIVESH BHAVAN, NILAKANTHA NAGAR, BHUBANESWAR".

For ICICI Bank Limited

Rajal Panda
Authorised Signatory
Mega Branch, Bhubaneswar

Rajal Panda
Emp. ID-187490

For ICICI Bank Limited

Himalaya Bastia
Authorised Signatory
Mega Branch, Bhubaneswar

HIMALAYA BASTIA
Emp. ID-462109

BG Number: 0544NDLG00035823 Sr.No. 144580
Issuance Date: May 11, 2022

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)



- 1 To,
- 2 Member Secretary,
- 3 State Pollution Control Board, Odisha (OSPCB)
- 4 Parivesh Bhavan, Nilakantha Nagar,
- 5 Bhubaneswar.

6 Dear Sir,

7 Guarantee No: - 0544NDLG00035823

8 Amount of Guarantee Rs. 2,79,90,000 /- (Rupees Two Crore Seventy Nine Lakh Ninety
9 Thousand Only)

10 Guarantee cover from 11/05/2022 to 10/05/2027

11 Guarantee remain full force upto 10/05/2027


12 Last date for lodgement of claim upto 10/05/2027

13 This guarantee is issued subject to the condition that the liability of the bank under this
14 guarantee is limited to maximum Rs. 2,79,90,000 (Rupees Two Crore Seventy Nine Lakh Ninety
15 Thousand Only) and the guarantee shall remain in full force from 11/05/2022 to 10/05/2027 and
16 cannot be invoked otherwise than by a written demand or claim under this guarantee served on
17 the ICICI Bank Limited at ICICI Bank Ltd, Bhanjapra Building, Opp. Sriya Talkies, Unit 3,
18 Janpath, Bhubaneswar Odisha 751001 (branch) on or before 10/05/2027 (last date of
19 lodgement of claim) by the OSPCB, Bhubaneswar in writing.

20 The State Pollution Control Board, Odisha Bhubaneswar (hereinafter called as the OSPCB) has
21 agreed to accept from M/s Hindalco Industries Limited, (herein after called as Borrowing
22 Organisation / Agency) a bank guarantee for Rs. 2,79,90,000/- (Rupees Two Crore Seventy
23 Nine Lakh Ninety Thousand Only) for the period from 11/05/2022 to 10/05/2027 and the last
24 date of lodgement of claim within 10/05/2027 towards Guarantee against security deposit in
25 connection with Environmental Clearance proposal of Hindalco Industries Limited for
26 Maliparbat Bauxite Mines for budgetary provision with respect to Remediation Plan and Natural
27 & Community Resource Augmentation Plan of Rs. 2,79,90,000/- as directed by Ministry of
28 Environment, Forest and Climate Change (MoEF & CC), Govt. of India.

For ICICI Bank Limited Page 1 of 4

Authorised Signatory
Mega Branch, Bhubaneswar
Royal Panda
Emp. ID-187490

For ICICI Bank Limited

Authorised Signatory
Mega Branch, Bhubaneswar
HIMALAYA BASTIA
Emp. ID-462109

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance from a branch of ICICI Bank other than the issuing branch.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)



29 We ICICI Bank Ltd, a schedule bank in India incorporated under the Provisions of the Companies
30 Act, 1956 and having its registered office at Near Chakli Circle, Old Padra Road, Vadodara-390
31 007, India and having a branch office at ICICI Bank Ltd, Ground Floor, Akroti Centre Point,
32 Kondivita, Near MTNL, M.I.D.C, Andheri East, Mumbai, Maharashtra 400093 Branch (Herein
33 after called as "Bank"), do hereby undertake to indemnify and keep indemnified "OSPCB" to the
34 extent of Rs.2,79,90,000/- (Rupees Two Crore Seventy Nine Lakh Ninety Thousand Only) for the
35 period from 11/05/2022 to 10/05/2027 with the last date of lodgement of claim within
36 10/05/2027.

37 We ICICI Bank Limited, further agree that if a demand is made by the OSPCB, have no right to
38 decline to cash the same for any reason whatsoever. The fact that there is a dispute between
39 the said borrowing Organisation/Agency and the OSPCB is no ground for us to decline to
40 honour invocation the Bank guarantee and such invocation is a sufficient reason for the OSPCB
41 to enforce the bank guarantee unconditionally without any reference to the said Agency, within
42 48 hours excluding holidays.

43 We ICICI Bank Limited, further agree that a mere demand by the OSPCB is sufficient for us ICICI
44 Bank Limited Branch at Bhubaneswar, to pay the amount covered by the bank guarantee
45 without reference to the said borrowing Organisation / Agency and any protest by the said
46 Agency cannot be valid ground for us, to decline payment to the OSPCB.

47 We ICICI Bank Limited, the bank, undertaking to pay to the OSPCB any money so demanded
48 notwithstanding any dispute or disputes raised by the said agency in any suit or proceedings
49 pending before any court or tribunal relating thereto as our liability under this present being
50 absolute and unequivocal.

51 If notice of demand is served on the bank and for this purpose it shall be deemed sufficient if
52 such notice is served on our branch at ICICI Bank Ltd, Bhanjapra Building, Opp. Sriya Talkies,
53 Unit 3, Janpath, Bhubaneswar Odisha 751001, by the OSPCB before the last date of
54 lodgement of claim under this guarantee i.e. on or before 10/05/2027, then notwithstanding
55 anything to the contrary herein contained, the liability of the Bank under this guarantee shall be
56 enforceable as due to us.

57 We ICICI Bank Limited, the bank further agree that the OSPCB shall have fullest liberty, without
58 our consent and without affecting in any manner our obligation hereunder to vary any of the
59 terms and conditions of the agreement/work order/contract/order etc or to extend time of
60 performance by the said agency from time to time or to postpone for any time or form time to
61 time any of the powers exercisable by the OSPCB against the said agency and to forbear or
62 enforce any of the terms and conditions relating to the order and shall not be relieved from our

Page 2 of 4

For ICICI Bank Limited

Rajendra Panda
Authorised Signatory
Mega Branch, Bhubaneswar

Rajal Panda

Emp. ID: 187490

For ICICI Bank Limited

Himalaya Bastia
Authorised Signatory
Mega Branch, Bhubaneswar

HIMALAYA BASTIA

Emp. ID: 462109

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance from a branch of ICICI Bank other than the issuing branch.

BANK GUARANTEE
ICICI Bank Limited

(Incorporated in India)



63 liability by reason of any such variation or extension being granted to the said Agency or for
64 any forbearance, act or omission on the part of the OSPCB or any indulgence by the Hindalco
65 Industries Ltd to the said agency.

66 We ICICI Bank Limited, lastly undertake not to revoke this guarantee during its currency except
67 with the previous consent of the OSPCB in writing.

68 Notwithstanding anything contained herein above:

69 1.All claims under this guarantee must be presented to ICICI Bank Limited Branch, at ICICI Bank
70 Ltd, Bhanjapraava Building, Opp. Sriya Talkies, Unit 3, Janpath, Bhubaneshwar Odisha 751001
71 (Odisha).

72 2.Our liability under this Bank Guarantee shall not exceed Rs.2,79,90,000 /- (Rupees Two Crore
73 Seventy Nine Lakh Ninety Thousand Only).

74 3.This guarantee will not get discharged due to change in the constitution in the bank or the
75 said agency.

76 4.This Bank Guarantee shall remain valid up to 10/05/2027 (date of expiry) and claim under this
77 guarantee can be served on or before 10/05/2027 (last date of lodgment of claim).

78 5.We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee
79 only and only if OSPCB serves a written claim or demand on the bank at our branch at ICICI
80 Bank Ltd, Bhanjapraava Building, Opp. Sriya Talkies, Unit 3, Janpath, Bhubaneshwar Odisha
81 751001 on or before 10/05/2027 (Last date of for lodgment of claim).

82 6.At the end of expiry of the validity period, unless an action to enforce the claim under this
83 guarantee is initiated before the court or tribunal on or before the expiry of the validity period,
84 all your rights under this bank guarantee shall stand extinguished and we shall be relieved and
85 discharged from all our liabilities and obligations under this bank guarantee irrespective of
86 return of original bank guarantee.

87 7.We declare that this Bank Guarantee is not tainted with fraud and is furnished in the written
88 request of the agency.

89 Date: 11.05.2022

For ICICI Bank Limited

Royal Panda
Authorised Signatory
Mega Branch, Bhubaneswar
Royal Panda
Emp. ID-187490

Page 3 of 4

For ICICI Bank Limited

Himalaya Bastia
Authorised Signatory
Mega Branch, Bhubaneswar
HIMALAYA BASTIA
Emp. ID- 462109

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance from a branch of ICICI Bank other than the issuing branch.

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Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

BG Number: 0544NDLG00035823 Sr.No. 144583
Issuance Date: May 11, 2022

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

90 FOR ICICI BANK LIMITED



91 Authorized Signatories

92 SIGNATURE: Royal Panda SIGNATURE: Himalaya Bastia

93 NAME: Royal Panda NAME: HIMALAYA BASTIA
Emp. ID-187490 Emp. ID-462109

94 SIGNATURE CODE: _____ SIGNATURE CODE: _____

BENEFICIARY COPY

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance from a branch of ICICI Bank other than the issuing branch.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

ANNEXURE-III : DEMAND NOTICE

**OFFICE OF THE DEPUTY DIRECTOR OF MINES, KORAPUT CIRCLE,
KORAPUT.**

No. 34 /Mines. Date: 03.01.2022.
DEMAND NOTICE

To,

M/s.HINDALCO Industries Ltd,
42/1041, Satya Nagar, College Road,
Semiliguda, Dist.Koraput

Whereas, it has been observed that *M/s.Hindalco Industries Ltd.* the mining lease holder of *Maliparbat Bauxite* mines over an area of *268.011 Ha.* has undertaken production of *Bauxite* minerals from the above referred mining lease hold area without Environment Clearance during the year 2012 to 2014.

2. And whereas the proposal was considered in the 26th EAC meeting held during 11-13th January, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant the committee observed that the PP has obtained Environment Clearance on 07.09.2006 under the EIA Notification 1994 validity of the EC was only for 5 years i.e 06.09.2011 and the PP has operated the mines from 2012 to 2014 without obtaining Environment Clearance under EIA Notification 2006 hence the proposal falls under violation case. The Committee also noted that PP did not submitted the application as per notification No S.O 1530(E) dated 06.04.2018.

3. Whereas the Hon'ble Supreme Court in its judgment date 02.08.2017 in the W.P.(C) No.114 of 2014 in the matter of common cause Vs union of India has interpreted the section 21(5) of the mines and Minerals (Development and regulation) (MMDR) Act1957 and held that wherever violations were carried out with regard to the water (Prevention and Control of pollution) Act 1974 the Forest (Conservation) Act 1980 the Air(Prevention and Control of Pollution) Act 1981 and the Environment (Protection) Act 1986 100% cost/value of the illegally mined mineral needs to be compensated by the mining entity/project proponent.

4. In view of the above, as per monthly return submitted to this office, it reveals that you have produced 900.00 MT of Bauxite ore from your Maliparbat Bauxite Mines over 268.011 Hects during the year 2012 to 2014. So it is to initiate action under the provision of section 19 of the Environment (Protection) Act, 1986

5. Whereas considering the above excess production as production without lawful authority. Therefore calculation of 100% cost/value has been made as per Rule, 45 of Minerals (other than Atomic and Hydrocarbon Energy Minerals) Concession Rule, 2016 (Amendment 2019) and arrived to Rs. 15,32,216/- (*Rupees Fifteen Lakh(s) Thirty Two Thousand Two Hundred Sixteen*) only as detailed in Annexure-I. So you are liable to pay a sum of Rs. 15,32,216/- (*Rupees Fifteen Lakh(s) Thirty Two Thousand Two Hundred Sixteen*) only, being the price towards compensation under Section 21(5) of MMDR Act, 1957 for production without of the environmental clearance as rationalized the CEC, in pursuance to the judgment dt.02.08.2017 of Hon'ble Supreme Court in the matter of W.P.(C) No.114/14 Common Cause vrs. Union of India and Others.

Now therefore, you are hereby directed to pay the compensation of Rs. 15,32,216/- (*Rupees Fifteen Lakh(s) Thirty Two Thousand Two Hundred Sixteen*) only without delay.

Encl: As above.

[Signature]
DEPUTY DIRECTOR OF MINES,
KORAPUT CIRCLE, KORAPUT.

Memo No. _____/Mines.

Date: 03.01.2022.

Copy forwarded Director of Mines, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to Directorate letter No.10378/DM, dt.30.12.2021.

DEPUTY DIRECTOR OF MINES,
KORAPUT CIRCLE, KORAPUT.

ANNEXURE-I

STATEMENT SHOWING THE ILLEGALLY MINED MINERAL AND CALCULATION OF 100% COST/VALUE DURING THE YEAR 2012 TO 2014 FROM MALIPARBAT BAUXITE MINES OVER 268.011 HECTS IN KORAPUT DISTRICT

Year	Month	Production (in MT)	Despatch	52.90%	Al ₂ O ₃	IBM price (derived from monthly average LME price)	Conversion factor	Average sale price (per MT)	100% cost/value
2012	Jan	0.00	0.00	52.90%					
	Feb	0.00	0.00	52.90%					
	Mar	0.00	0.00	52.90%					
	Apr	0.00	0.00	52.90%					
	May	0.00	0.00	52.90%					
	Jun	0.00	0.00	52.90%					
	Jul	0.00	2581.00	52.90%					
	Aug	0.00	0.00	52.90%					
	Sept	0.00	0.00	52.90%					
	Oct	0.00	291.77	52.90%					
	Nov	0.00	27.98	52.90%					
	Dec	0.00	315.07	52.90%					
2013	Jan	0.00	183.10	52.90%					
	Feb	220.00	0.00	52.90%	46.57	111149.42	0.064	1752.46	385541
	Mar	230.00	0.00	52.90%	46.57	105195.87	0.064	1658.60	381478
	Apr	0.00	0.00	52.90%					
	May	250.00	0.00	52.90%	46.57	104312.07	0.064	1644.66	411165
	Jun	0.00	0.00	52.90%					
	Jul	0.00	0.00	52.90%					
	Aug	0.00	0.00	52.90%					
	Sept	0.00	0.00	52.90%					
	Oct	200.00	0.00	52.90%	46.57	112271.52	0.064	1770.16	354032
	Nov	0.00	0.00	52.90%					
	Dec	0.00	0.00	52.90%					
2014	Nil								
Total		900.00							15,32,216


 Deputy Director of Mines,
 Koraput Circle, Koraput.
 31.12.22

ANNEXURE-IV: PAYMENT E-CHALLAN

ADITYA BIRLA



Letter No: HIL/SEM/DDM/2021-22/05

Date: 10th January 2022

To

The Deputy Director Of mines
Koraput Circle
Dist: Koraput, Odisha

Ref: Your letter bearing No. 34/Mines dated: 03/01/2022.

Sir,

We are in receipt of your communication dated: 3/1/2022 whereby we have been directed to pay Rs.15,32,216/- (Rupees fifteen lakh thirty-two thousand two-hundred and sixteen) only towards compensation levied under Section 21(5) of MMDR Act, 1957. As per the direction of your good office, we deposited the above demanded amount of Rs. 15,32,216/- under protest and without prejudice to our rights and contentions in this regard.

Please find enclosed herewith a copy of the echallan / documents in support of the said payment of Rs.15,32,216/- bearing the Reference id:333F96DEDO on dated:10.01.2022.

Thanks and Regards,

For Hindalco Industries Limited,

Pratap K. Patra

Encl: As above



11.01.2022

Hindalco Industries Limited
Mines Division - New Project
42/1041, Satya Nagar, College Road
Semiliguda, Koraput - 764036, Odisha
Telephone : +91 6853 225293
Fax : +91 6853 225293
Email : hil-maliparbat.mines@adityabirla.com

Registered Office: Ahura Centre,
1 st Floor, B Wing, Mahakali Caves Road,
Andheri (East),
Mumbai - 400093, India.

Website : www.hindalco.com
Email : hindalco@adityabirla.com
Corporate
Identity No. 127020MH19S8PLCO11238



Government of Odisha
Cyber Treasury
eChallan



1.	Name of the Depositor	HINDALCO Industries Ltd.
2.	Depositor's Address	Mallparbat Odisha KORAPUT 111111
3.	District	KORAPUT
4.	e Challan Reference Id	333F96DED0
5.	Total Transaction Amount (In Rs.)	Rs. 1532216/- (echallan- Rs. 1532216/- + agency- Rs. 0/-)
6.	Amount (in words)	Fifteen Lakh Thirty Two Thousand Two Hundred Sixteen Only

Department specific information (If any)

Department Reference ID	ORDCN40012022153124361114
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Head of Account

Description	Head Of Account	Amount	Challan Number & Date
Compensation Non-Iron and Mn	0853-00-102-0121-02021-000	Rs. 1532216/-	Not Generated
	Total Amount	Rs. 1532216/-	

Bank Details

Name of the Bank	STATE BANK OF INDIA
Mode of Transaction	Net Banking
Bank Transaction ID	CKS5088426
Bank Transaction Date & Time	10/01/2022 04:07:19 PM
Bank Transaction Status	Successful: Confirmation Received from Bank as Success

Payment Remarks

Compensation for Non Mining

* This is a computer generated challan and doesn't require any signature or stamp.

Generated on : 10/01/2022 04:20:58 PM

E-receipt

Odisha Govt

Name of the Depositor	: HINDALCO Industries Ltd
Purpose of Deposit	: 10-01-2022 15:01:04 PM
Challan Amount	: Rs. 1532216.00 /-
Treasury Challan Reference No	: 333F96DED0
Internet Banking Transaction Reference Number	: CKS5088126
Transaction Date and Time	: 10/01/2022 04:07:19 PM

(Note: This is a computer generated receipt and does not require any signature/stamp Please enclose this e-Receipt with e-Challan at the time of challan submission to the department)