



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

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Letter No : EC/SEIAA/2018-19/2410/2018/

Ranchi, Date :

To: **General Manager,**
M/s Hindalco Industries Ltd., Jharkhand,
Mines Division, Court Road,
Lohardaga – 835302.

Sub: Prescribing of ToR to “Serengdag Bauxite Mine with production capacity of Bauxite 1,00,000 TPA, Top Soil 15,350 TPA, OB 1,69,800 TPA & Mineral reject 40,000 TPA with installation of crusher 100 TPH, Screening & Washing of M/s Hindalco Industries Ltd., Village : Serengdag, Hanrup and Paunri, Taluka : Bishunpur & Ghaghra, Dist. : Gumla, Jharkhand (77.89 Ha). (Proposal No. : SIA/JH/MIN/29237/2018) - regarding.

Ref: Your application no.- Nil, dated – 11.10.2021.

It is in reference to the project to “Serengdag Bauxite Mine with production capacity of Bauxite 1,00,000 TPA, Top Soil 15,350 TPA, OB 1,69,800 TPA & Mineral reject 40,000 TPA with installation of crusher 100 TPH, Screening & Washing of M/s Hindalco Industries Ltd., Village : Serengdag, Hanrup and Paunri, Taluka : Bishunpur & Ghaghra, Dist. : Gumla, Jharkhand (77.89 Ha)” along with the application in the prescribed format (Form-1) and a copy of the pre-feasibility report and approved mine plan to prescribe the ToRs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

This is a new project which has been taken for appraisal on 22.10.2021.

Project Category : B1 – Application for TOR

ToR Application for : Bauxite: 100000 TPA

PROJECT & LOCATION DETAILS :

Sl	Parameter	Details
1	Project Name	: Serengdag Bauxite Mine
2	Lessee:	: M/s. Hindalco Industries Limited
3	Lease Address	: Ahura Centre, 1st Floor, 'B' Wing, Mahakal caves road, Andheri (East), Mumbai- 400093
4	Lease Area	: Ha: 77.89 ha Acres: 192.47 Acres

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5	Type of Land	:	Total Mine lease area is 140.07 Ha. Out of which HIL proposed surrender of 62.18 Ha and therefore effective area over which mining is being and will be done is 77.89 ha only.	
6	Project Cost	:	Rs. 5.5 Crores/-	
7	EMP Budget	:	Capital: Rs 196.98 Lac/-	Recurring: Rs 16.07 lacs/- per annum
8	CSR / CER Budget	:	Rs. 12 lakh	
9	New or Expansion	:	For ToR under EIA Notification 2006 and Govt. of India Gazette Notification vide S.O. 1530(E) dated 6th April 2018	
10	Mineable Reserves	:	Cu.M.: 1123366 Cu.M.	Tonnes: 2583740 Tonnes (As on 01.04.2021)
11	Mine Life	:	20 Years	
12	Man power	:	113	
13	Water Requirement	:	15 KLD	
14	Water Source	:	Existing rain water harvesting pond	
15	DG Set / power	:	30 kva	
16	Crusher	:	100 TPH	
17	Nearest Water Body	:	PhuliharNala (~4.0 km in WSW direction) SalgiNala (~4.0 km in SE direction)	
18	Nearest Habitation	:	Gumla (~37 km in SSE direction)	
19	Nearest Rail Station	:	Lohardaga (~29km in NE direction)	
20	Nearest Air Port	:	Ranchi Airport (~90 km in ESE direction)	
21	Nearest Forest	:	Serka PF (~2.5 km in NNW direction)	
22	Road & Highways	:	SH-9 (~2.0 km in WSW direction)	

CO-ORDINATES :

1	Latitude		From 23°21'27.067'' N	To 23° 23'14.921'' N
2	Longitude		From 84° 25' 41.639'' E	To 84° 26' 33.211'' E

LAND DETAILS:

1	Serengdag	115.31 Acre	Khasra No	15, 27, 29, 30, 31, 32, 33, 34, 35, 36, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 107 (Part), 109, 110, 111, 112, 113, 114, 115, 116, 118, 119, 120, 121, 122, 128 (Part), 129 (Part), 130, 131, 132, 133, 134, 135 (Part), 136 (Part), 138 (Part), 144 (Part), 273, 276 (Part), 278, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291,
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2	Hanrup	71.54 Acre	Khasra No	1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1104, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1129, 1130, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1276, 1277, 1278, 1280, 1281, 1295, 1296, 1297, 1298, 1299, 1300, 1302, 1303, 1311, 1312, 1313
3	Paunri	5.61 Acre	Khasra No	71,74,75,76

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Mining Lease was executed on 04-10-1948. Validity of Mining Lease has been extended upto 31.03.2030 in favor of M/s Hindalco Industries Limited. Supplementary lease deed executed on 27.03.2017.
2	CO	:	The CO, Bishunpur vide letter no. 95, dated 26.03.2019 & CO, Ghaghra vide letter no. 749, dated 17.11.2020 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DFO Wildlife	:	Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. 456, dated 19.03.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
4	DFO Territorial	:	DFO, Lohardaga Division vide letter no. 2845 and 2640, Dated 11.08.2021 and 04.10.2021 certified that the distance of reserved / protected forest is Zero m (adjacent to forest) from proposed project site.
5	Mine Plan Approval	:	Modification of Mining Plan with Progressive Mine Closure Plan has been submitted IBM, Ranchi dated 09.10.2021

1	Mining Method	:	Mechanized Opencast, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 6.01 ha (20.12 ha will be total excavated area, out of which 13.61 will be reclaimed with waste generated, 0.5 ha area will be Life of Mine – 0 ha (45.79 ha will be total excavated area, out of which 40.73 will be reclaimed and 5.06 ha will be converted into water reservoir)







			converted into water reservoir and 6.01 ha will be working quarry area)	
3	Waste Generation	:	5 years– 1184695 tonnes	Life of Mine – 4703597 tonnes
4	Stripping Ratio	:	1 : 3.03 (T: T)	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m	
7	Elevation of Mine	:	1,020 to 1,045.5 AMSL	
8	Ground Level Elevation		1032.75 AMSL	
9	Ultimate Working Depth	:	10-13 m (1019.75 AMSL)	
10	Water Table	:	90 m bgl (942.75 AMSL)	
11	Topography of Mine	:	The bauxite deposits of Lohardaga occur on a Paleopaneplane	
12	Explosive Requirement	:	146.68 Kg/day (Slurry Explosives)	
13	Diesel/Fuel requirement	:	700 ltr/day	

Production Details :

Year	Total Excavation (t)	OB (t)	Soil (t)	ROM (t)	Ore (t)	Mineral Reject /Waste(t)
2021-22	444355	188220	91626	164509	98705	65804
2022-23	505856	231495	114810	159551	95731	63820
2023-24	519794	212648	143618	163528	98117	65411
2024-25	365456	126793	75485	163178	97907	65271
Total	1835461	759156	425539	650766	390460	260306

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Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Excavated Area	4.76	13.61	40.73	40.73	Backfilled and reclaimed
		-	0.5	5.06	5.06	Reservoir
		11.67	6.01	-	-	working area / quarry
2	OB Dump	0.69	0.18	-	-	
3	Soil Dump	0.53	-	-	-	
4	Road	0.26	0.27	0.15	0.15	
5	Green Belt	-	2.5	5.0	5.0	
6	Undisturbed Area	64.74	54.82	26.95	26.95	
	Total	77.89	77.89	77.89	77.89	

ENVIRONMENT MANAGEMENT**Green Belt Development**

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	5.0 ha	20000
2	Other Reclaimed Area	:	0.8 ha	2000
3	Haul /Approach Road	:	0.15 ha	1000

Solid Waste Management

- Initially, excavated soil & waste is dumped separately in the non -mineralized area with proper terracing, parapet wall & garland drain. At the end of life of mine, all excavated Overburden & waste will be used for concurrent back filling & same will be rehabilitated by plantation/agricultural land.

Water Quality Management

- There is no waste water is being generated during mining process as of now.
- Domestic wastewater generated from mines office is being disposed of in soak pit via septic tank.
- Retaining walls, Garland drains, along the periphery of pits and dumps& settling tanks is being constructed arrest surface run-offs.

Air Quality Management

- Drilling machines are being equipped with wet drilling arrangements.
- Controlled blasting has been adopted and optimum use of explosive energy helps in reducing the air pollution.
- Proper maintenance (preventive as well as scheduled maintenance) of vehicles is being carried out regularly for minimization of generation of gaseous pollutants
- Personal Protective Equipment (PPEs) such as dust masks are being provided to employees working in dust prone areas.
- Periodic air quality monitoring is being carried out

Noise Level Management

- a. Drilling machines are being equipped with wet drilling arrangements.
- b. Controlled blasting technique is being adopted during day time only.
- c. HEMMs are equipped with AC cabins for operators.
- d. In order to reduce the effect of noise pollution, personal protective equipment like ear plugs, ear muffs are provided to workers exposed to high noise levels.
- e. Regular monitoring of ambient noise level is being carried out.

SEAC, Jharkhand has recommended the ToRs in its 92nd meeting dated 20th, 21st, 22nd & 23rd October, 2021 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 94th meeting held on 13th, 14th & 15th April, 2022.

The committee also recommends the following project specific conditions:

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

The TORs prescribed for undertaking detailed EIA study are as follows:

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.

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3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.



12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal



features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).

21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.



28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

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36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed :-
 - a. Executive Summary of the EIA/EMP Report.
 - b. All documents to be properly referenced with index and continuous page numbering.
 - c. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e. Where the documents provided are in a language other than English, an English translation should be provided.
 - f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF & CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with

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reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation

- i. As per the circular no. J-11011/618/2010-IA.II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
45. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
46. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA II (M) , dated 12.01.2017.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

Dated: 16/04/2022

Memo No : EC/SEIAA/2018-19/2410/2018/ 106

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

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16/04/2022