

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IMPACT ASSESSMENT DIVISION)
NON-COAL MINING SECTOR**

SUMMARY RECORD OF 31st MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 31st meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 9th to 11th and 14th to 15th June, 2021 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of the 30th EAC Meeting held during 6th-8th April, 2021.

The minutes of 30th EAC Meeting held during 6th-8th April, 2021 was placed before the members of the Committee.

DAY 1 - 09.06.2021

1.1 Proposal is for Environmental Clearance of M/s. Dalmia Cement (Bharat) Limited for Limestone Production - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher -1200 TPH Capacity with Wobbler in the mine lease area of 575.830ha at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh – [Proposal no: IA/MP/MIN/89876/2018; File No. IA-J-11015/13/2019-IA-II(M); Consultant: JM EnviroNet Pvt Ltd] - Environmental Clearance (EC).

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s Dalmia Cement (Bharat) Limited is for Limestone production of - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation

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- 6.65 Million TPA) along with Installation of Crusher -1200 TPH Capacity with Wobbler in the mine lease area of 575.830ha at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh. The mine lease area located between Latitude: 24°34'0.3095" N to N 24°35'48.2047"N and Longitude: 81°02'42.3126" E to 81°05'32.0272" E. The mine lease area falls under the Survey of India Toposheet No 63 H/2, 63D/14, 63D/15, 63H/3 and in Seismic zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level.

3. M/s Dalmia Cement (Bharat) Limited has made an online application vide proposal no. IA/MP/MIN/89876/2018 dated 13.03.2021 along with the Form-2 and EIA report after conducting the public hearing on 28.10.2020 under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposal is placed in EAC meeting held during 9th-15th June, 2021 wherein the EAC deliberated on the following information submitted by PP.

Details submitted by Project proponent.

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

Date of application	Proposal No	Consideration	Details	Date of accord
31.12.2018	IA/MP/MIN/89876/2018	January 22-23, 2019	Terms of Reference	12.02.2019

5. Details of Mine lease.

S. no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Minerals	Period of Grant		Granted by	Mine lease area in Ha
				From	To		
1	Prospecting license Lr No F14-20/2008/12/1-66531	27.12.2012	Limestone	04.02.2013	03.02.2015	Government of Madhya Pradesh	724.541 ha.
2	Letter of Intent Lr No F 3-8/2014/12/1	18.01.2018	Limestone			Government of Madhya Pradesh	575.832 ha.
3	F-3-	28.08.2018	Limestone			Government	PP

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	8/2014/12/1					nt of Madhya Pradesh	mentioned that Inadvertently State government has mentioned mine lease area 575.832 ha instead of 575.830ha, The PP applied for rectification of Mine lease in LOI the state government has rectified the mine lease area in LOI from 575.832 ha to 575.830ha.
4	Grant of mining lease Lr No AF 3- 8/ 2014/ 12/1	08.08.2019	Limestone	50 years from grant of the lease.		Government of Madhya Pradesh	575.830 ha.

6. Details of executed Mine leases.

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	11.11.2019	10.11.2069	MP348642019A1257763 in between Government of Madhya Pradesh and M/s Dalmia Cement (Bharat) Limited registered on 11.11.2019

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7. Land use and ownership details:

S.No	Particulars	Area
1	Private Land (ha.)	567.182
2	Government Land (ha.)	8.648
3	Revenue Land (ha.)	Nil
4	Forest land	Nil
5	Other Land (ha.)	Nil
6	Total	575.830
7	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	PP submitted that 13.84ha is acquired, 553.34 Land yet to be acquired (Ha) the same In Progress
8	Existence of habitation & involvement of R&R, if any	3 no. of villages and there are 699 Project Affected Families, in which, 654 PAFs having only land and 35 PAFs having land and houses both.
9	Elevation of the project site	288 m AMSL to 306.65 m AMSL
10	Water body exists within the project site as well as study area	Major water bodies like pond, nala has been excluded during grant of the ML Area. Part of canal falling/traversing the lease area is proposed to be diverted for which requisite permission has been obtained.
11	Existence of ESZ/ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area.	Nil

8. Details of Mine Plan.

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period		Details
				From	To	
1	Indian Bureau of Mines	MP/Satna/Limestone/ MPLN/G-29/18-19 7044	06.12.2018	5 years		4.0 MTPA of Limestone

9. The Project Proponent submitted that the mining activity will be carried out by open cast mechanized method with drilling and blasting. PP also submitted that bench height and width will be maintained 6.0m and 20-30m simultaneously. Mining is proposed maximum working depth of mining will be 23m in below the ground whereas the ground water table exists at an average depth of 12-15m bgl and 10-12 m bgl during pre-monsoon and during post-monsoon respectively, so mining depth will intersect the ground water table. The PP submitted that the total geological reserve is 133.66 Million Tonnes and Mineable Reserve is 40.47 Million Tonnes. PP submitted that the estimated life of mine is 14 years which is likely to extend after further drill exploration. The proposed height of the bench will be 6m and bench width will be ~20 to 30m and the ultimate pit slope shall be 45°. Excavated limestone will be transported to the crusher via dumpers. The capacity of crusher will be 1200 TPH. Material (ROM Limestone) will be unloaded in RCC Hopper of 100 /150 CuM with low level sensor. Crushed limestone will be transported by covered conveyor belt (~3.7 km length & 20 m width) to the interlinked cement plant. The conveyor belt corridor is free of habitation. Transportation will be done in 2 shifts. Plantation is also proposed all along the conveyor belt. Bag filters will be installed at transfer points. Regular maintenance and timely replacement of idlers will be done to minimize noise pollution. PP also submitted that the top soil shall be used for plantation and remaining will be stacked separately at earmarked area of about 9 ha. Proposed height of topsoil dump shall be about 20 m during plan period within ML. Waste (OB/IB/Shale) will be used for preparation of the ramp to crushing unit and platform for unloading the material in to hopper and recurring of dumpers etc. There is no proposal for stacking of the OB as it is proposed for simultaneous backfilling of mined out area. The backfilling will be mostly up to the ground level. Topsoil will be used for topping of the backfilled area. At the conceptual stage there will be no dump. PP vide Lr dated 13.06.2021 submitted an undertaking that there is an existing excavated area of 1.0 ha within the Mine lease. The same is also mentioned in the approved Mining Plan. M/s. Dalmia Cement (Bharat) Limited has not commenced any mining operations in the said ML.

10. The Project Proponent submitted that the nearest villages are Janardanpur (adjacent in North), Patarahai (adjacent in East), Bairiha (adjacent in South), Merhi (~150m, West) and Karmau (~650 m in NW). Nearest highway is NH-75 (~6.5 km in South) and its by-pass road (~5.35 km in South).

11. The Project Proponent submitted that the total water requirement will be 90 KLD and for dust suppression/plantation 75 KLD for Domestic use 5 KLD, 10 KLD for other purpose). PP submitted that the water will be taken from existing water sources from Ground water and or mine pump. PP has submitted that an application regarding ground water extraction to CGWA vide letter no. 21-4/1074/MP/MIN/2020 dated 31.12.2020 and is under process.

12. The Project Proponent submitted that five minor/sub minor canals (Pathrahai Minor and minor sub canal in East part of ML, Karmau & Jhanjhar Minor Canal in western part of ML, Bariha Minor Canal in Central part of ML) are passing through the ML Area. Total length of canal/sub canal passing through the lease area is estimated as 6.16 km. Diversion of the same is proposed for which demand has been raised by concerned Authority (Irrigation Department), Govt. of Madhya Pradesh for issuance of NOC and accordingly Rs 12.144 crores has been paid by the Project Proponent. Further NOC has been issued by Department of Water Resources, Bhopal vide letter no. R-388/2014/ Madhyam /31/174 dated 08.03.2017. PP also submitted that a seasonal nala namely Dila nala is excluded during grant of ML from the mining lease area which divided the mining lease in blocks and 50 m safety barrier will be left along the Nala.

13. The Project Proponent submitted revised greenbelt and plantation vide Lr dated 13.06.2021 that total area to be covered under greenbelt and plantation will be 95.92 ha in which greenbelt along the 7.5 m lease periphery will be covered in 40 ha and plantation on safety zone of nallah, road and habitation will be done on 55.92 ha area with 90% survival rate and will be completed within three years from the date of commencing of mining operations. Local and fruit bearing species like *Adina Cordifolia*, *Aegle Marmelos*, *Ficus Benghalensis*, *Ficus Religiosa*, *Hardwickia Binata*, *Mangifera Indica*, *Azadirachta Indica*, *Bauhinia Variegata*, *Syzygium Cumini*, *Cassia Fistula* and *Delonix Regia* etc. will also be selected & planted in consultation with Forest Department and as per CPCB guidelines. Sapling height will be 2 m. PP earmarked about Rs. 6 Crore for development of plantation/greenbelt over 95.92 Ha including cost for sapling, fertilizers, tree guard, tool stackers and maintenance etc and Rs 25 lakhs for nursery.

14. The Project Proponent reported that there is no National Parks, Biosphere Reserve, Wildlife Corridors, and Tiger/Elephant Reserves/ Critically Polluted area/Aravali located within the radius of 10km of the mine lease area. PP submitted that there is no forest land involved in the Mine lease area. PP reported that there are no Schedule-I species in support of this PP submitted vide letter no WL/Maa.chi/Mine-80/2161 dated 06.03.2021 duly authenticated by Chief Wildlife Warden & Principal Chief Conservator of Forest.

15. PP reported that 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. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of October to December, 2018 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

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Period					
AAQ parameters at 10 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile , µg/m ³	Standard, µg/m ³
	PM2.5	26.5	42.2	41.8	60
	PM10	54.2	83.6	83.0	100
	SO2	5.3	13.6	11.5	80
	NOx	10.4	28.6	28.2	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM2.5	32.6	1.10	33.70	60
	PM10	66.5	3.39	69.89	100
	SO2	7.81	1.54	9.35	80
	NOx	16.2	5.35	21.55	80
Noise level at 10 locations	Day Time: 49.8 to 62.1 Leq dB (A) Night Time: 41.7 to 56.7 Leq dB (A)				
Ground water quality at 12 locations	pH varied from 7.23 to 7.54, Total hardness varied from 212 to 456 mg/l, Total dissolved solids varied from 337 to 771 mg/l, Conductivity varied from 421 mg/l to 585 mg/l, The water samples contain, chloride from 17.37 to 42.19 mg/l, SO ₄ varied from 28.57 to 182.18 mg/l, Fluoride 0.19 to 0.83 mg/l, Ca from 61.47 to 123.63 mg/l.				
Surface water quality at 4 locations (Fresh assessment of surface water quality has been carried out on 23/12/2018 to 24/12/2018)	pH varied from 7.32 to 7.63, Total hardness varied from 153.45 mg/l to 346.5 mg/l, Total dissolved solids varied from 219 mg/l to 496 mg/l, Fluoride as F varied from 0.17 mg/l to 0.76 mg/l, BOD varied from 1.3 mg/l to 3.5 mg/l and COD varied from 4.48 mg/l to 12.76 mg/l.				
Soil quality at 12 locations	pH value ranged from 7.15 to 7.81 and the texture of the soil samples were Silt loam and sandy loam at all locations. The organic matter% ranged from 0.74% to 1.19%. The concentration of Nitrogen varied considerably from 111.75 kg/ha to 150.13 kg/ha and Phosphorous found in less to medium amount i.e. from 34.59 to 62.46 kg/ha, whereas the Potassium is found to be ranging from 189.7 to 281.8 kg/ha, which is from less to average in quantity.				
Traffic assessment study findings	Nil				
Flora and fauna	PP reported that there are no Schedule-I species in support of this PP submitted vide letter no WL/Maa.chi/Mine-80/2161 dated 06.03.2021 duly authenticated by Chief Wildlife Warden &				

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	Principal Chief Conservator of Forest.
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16. Public Hearing:

Details of Advertisement given	26.09.2020
Date of Public Consultation	28.10.2020
Venue	Government High School Jamuna, Village Jamuna, Tehsil Rampur Baghelan, District Satna, Madhya Pradesh
Presiding Officer	Smt Vimlesh Singh, Additional Collector, Satna and Dr. A.K. Shrivastav: Regional Officer, Regional Office (MPPCB), Satna (Madhya Pradesh)
Major Issues Raised	land compensation, employment generation, Socio-economic development of the area and pollution control
No of People Attended	153

17. Public hearing action plan as per MoEF&CC O.M. dated 30/09/2020

PP vide Lr dated 13.06.2021 submitted the revised EMP cost for Public hearing concerns as Rs. 6.0 Crore.

Sl.no	Activities	Yr1	Yr2	Yr3	Total (Rs. In Lakh)
i	Water Conservation	Village. Janardanpur	Village. Bairhia	Village. Patarhi	50
	Rejuvenation / deepening of existing ponds – one pond in each in Janardanpur, Bairhia and Patarhi villages And Repair/ construction of water structures like check dams, nala bunds, gabion structures, causeways etc.				
	Drinking Water Facilities in villages Janardanpur, Bairhia and Patarhi. (3 R.O/Water treatment plant one for each village)				30
ii	Livelihood	-	-	Village. Jamuna	30
	Setting up of skill training center under the banner of Dalmia Institute of Knowledge and Skill Harnessing (DIKSHa) for training of unemployed youth common for plant and captive mines proposed				

	<p>in the area.</p> <ul style="list-style-type: none"> • No. of Training center – 1 • Place of training Centre – Jamuna • Trades: General Duty Assistant, Retail Sales & Assistant Electrician • Duration of courses: 3 months • Affiliation: NSDC / MP Skill Mission • Capacity of the Centre: 270 				
	<p>Woman empowerment and Skill development:-</p> <ul style="list-style-type: none"> • Establishment of a training center for computer education, tailoring, embroidery etc. • Agri and allied farm based livelihood like vegetable, masala processing, small flour mills etc. 	Bairhia, Patarhi and Janardanpur villages			45
	<p>Skill enhancement along with seed capital which will be recovered during the course of business and assistance towards grant of bank loans for the PAFs livelihood such as:</p> <ul style="list-style-type: none"> • Small enterprises – Workshops, grocery stores, electric repair shops etc. • Dairy farming • Poultry farming • Flour mills, Dall mills etc. • Irrigation facilities/modern agricultural practices/rainwater harvesting scheme etc. • Trucks purchase 	(Estimated Budget is Rs. 700 lakhs and same is included in R&R plan)			-

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	Orchard Development / fruit tree plantation project in half / one acre model concept with intercropping or border cropping with 100 farmers (1 farmer – 1 acre)	Bairhia, Patarahi and Janardanpur villages			40
iii	Social Infrastructure Refurbishment of Govt. schools like Development of Smart classrooms with wi-fi facilities, Girls toilets in Schools, drinking water, improving sanitation facilities, sports equipments and facilities, laboratory equipments, boundary walls, etc. in surrounding villages Janardanpur, Bairhia & Patarahi (at least one school in each village).	Bairhia	Patarahi	Janardanpur	150
	Upgradation/modernization of existing health centers by providing medical equipment, extra beds, x – ray machines, ECG machines etc.	1 Health Center	1 Health Center	1 Health Center	50
	Development of community infrastructure including COVID health Centre at Village panchayats Janardanpur, Jamuna & Bairiha, providing Oxygen concentrators, beds, PPE Kits, Covid Care, support in vaccination, Awareness for COVID etc. We have already undertaken activities like distribution of mask, sanitizers, PPE kits, supply of oxygen etc.	COVID health Centre	Other Community Infrastructure support such as Public toilets, Bus Shelters etc. as per requirement of Village Panchayats		150
	Provision of solar street lights in the village streets in Janardanpur, Bairhia & Patarahi villages (About 150 lights)	50 nos	50 nos	50 nos	30
	Community Plantation and maintenance for three years.	15			15
	Emphasis on education of girls and weaker section of the villages by establishing coaching centers & remedial classes. Separate toilet	5 nos in Villages Janardanpur, Bairhia & Patarahi			10

	facilities in all Govt. schools of villages Janardanpur, Bairhia & Patarahi.	
	Total	600

18. The Project Proponent submitted that the total ML Area is 575.830 ha falls in revenue land of 3 Villages (Bairiha, Patarhai & Janardanpur). Out of total mine lease area; 8.648 ha is Government land and 567.182 ha is a private land. There are 699 Project Affected Families, in which, 654 PAFs having only land and 35 PAFs having land and houses both. Land acquisition will be through mutual agreement with the land holders falling in the mining lease area at negotiated rates and terms and conditions. PP vide Lr dated 13.06.2021 submitted that the value of land in village is taken from market valuation guidelines 2019 - 2020 issued by Registration and stamps department Govt. of Madhya Pradesh. PP also revised the budget for R&R Action plan as Rs. 237.601 Crore.

19. The Project Proponent submitted the affidavit dated 01.04.2021 that the company will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.

20. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up. In addition to this PP submitted an undertaking dated 10.03.2021 that all the data and information given in the application, enclosures, and other documents are true. The Consultant submitted the NABET Accreditation Certificate NABET/EIA/2023/RA 0186 which was valid up to 07.02.2023. The Project Proponent submitted an undertaking dated 10.03.2021 that DCBL owns the contents (data & information) of the EIA report prepared and submitted by J.M. EnviroNet Pvt. Limited. Further, it is to state that, instructions as per MoEF&CC O.M. No. J-11013/41/2006-IA. II (I) dated 04.08.2009 has been followed during the preparation of this EIA/EMP Report. The Consultant submitted an undertaking dated 11.03.2021 to the effect that the ToRs prescribed by MoEF&CC, New Delhi vide Letter No. J-11015/13/2019-IA.II (M) dated 12.02.2019 have been complied as per data/details provided by Project Proponent & as per approved Mining Plan approved by IBM and the data submitted are factually correct. The Consultant also given declaration that the Consultant Organization shall be fully responsible for any misleading information mentioned in this statement.

21. The Project Proponent vide Letter dated 13.06.2021 submitted the revised project cost as Rs 304.25 Crores and the EMP cost for environmental protection & management proposed as Rs. 8.16 Crores. The employment generation from the proposed project is 71 Nos.

22. The proposal for Environmental Clearance was considered in the 31st EAC meeting held during 9th - 15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of M/s. Dalmia Cement (Bharat) Limited for Proposed Limestone Production Capacity - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher -1200 TPH Capacity with Wobbler in the mine lease area of 575.830ha at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh with the following specific conditions in addition to the standard conditions applicable for non- coal mining projects:-

- i. The budget of Rs 6.0 Crores 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.
- ii. The Project Proponent shall undertake the plantation over 95.92 ha in peripheral zone and ensure that the plantation in peripheral zone and plantation along safety zone of nallah, road and habitation should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Causalities of the previous year should be replaced other than the saplings proposed to be planted every year.
- iii. The Project Proponent shall ensure that the air pollution control equipment like bag filter shall be installed at crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. The PP shall also undertake plantation all along the conveyor belt.
- iv. The Project Proponent shall install conveyor belt from mines to cement plant and transportation is only through conveyor belt.
- v. The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- vi. The Project Proponent should undertake regular monitoring of ground water level and surface water quality and take preventive measures for protection of water bodies within the lease area as well as nearby the mines.
- vii. The Project Proponent shall conduct the detailed hydrogeological study and obtain the NOC from CGWA before intersection of ground water table. The

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mining operations shall be restricted to above ground water table and it should not intersect the ground water table till obtain the NOC from the CGWA.

- viii. The Project Proponent should develop community infrastructure including COVID health Centre at Village panchayats Janardanpur, Jamuna & Bairiha, providing Oxygen concentrators, beds, PPE Kits, Covid Care, support in vaccination, Awareness for COVID etc. with the proposed budgetary provision of Rs.150 lakhs as mentioned in letter no nil dated 13.06.2021.
- ix. 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.
- x. The Project Proponent should obtain permission for withdrawal of ground water.
- xi. The topsoil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- xii. A seasonal nala namely Dila nala is excluded during grant of ML from the mining lease area which divided the mining lease in blocks and 50 m safety barrier along the nala will be left along the Nala and thick plantation shall be developed as a safety barrier.
- xiii. Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.

1.2 Proposal for Terms of Reference of M/s AAA Resources Private Limited for Bathiya Limestone mine with Total excavation: 8.84 MTPA, Limestone: 4.0 MTPA, Waste/reject: 4.43 MTPA Topsoil: 0.41 MTPA in the mine lease area of 266.302 Ha at Bathiya, Barahiya, Karaundi, Chapna and Tamoria villages, Tehsil: Maihar, District: Satna, State: Madhya Pradesh - [Proposal no: IA/MP/MIN/176767/2020; File No. J-11015/44/2020-IA-II(M); Consultant: Vimta Labs Limited] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The Proposal of M/s AAA Resources Private Limited is for grant of Term of Reference for Bathiya Limestone Mine, (ML Area: 266.302 ha) with Total excavation: 8.84 MTPA, Limestone: 4.0 MTPA, Waste/reject: 4.43 MTPA Topsoil: 0.41 MTPA situated at Bathiya, Barahiya, Karaundi, Chapna and Tamoria villages, Tehsil: Maihar, District: Satna, State: Madhya Pradesh State. The mine lease area located between Latitude 24°16'19.675" N - 24°18'46.795" N and Longitude 80°52,42.166" E - 80°55'18.769" E. The mine lease area falls under the Topo sheet No: 63D/15 and falls in Seismic zone-III. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s AAA Resources Private Limited has made an online application vide proposal no. IA/MP/MIN/176767/2020 dated 30.09.2020 and submitted Form-1 and Pre-feasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level.

3. The Project Proponent submitted that the proposal was considered in the 23rd EAC meeting held during 23rd -25th November, 2020 wherein the Committee deferred the proposal for want of following information: (i) It is observed that the major part of the land is an agricultural land. Hence, PP should submit environmental cost benefit analysis of mining on agricultural land. Crop cost should be taken as annual crop cost. (ii) Protection to habitation which is a part of lease boundary should also be accounted. PP should come out with demarcated buffer zone with a safety barrier of 100m from the nearest house. A minimum of 50m has to be left out for plantation. Therefore, 150m will not be available for mining. PP should revise the mining plan with safety barrier of 150m and width of 200m. Total loss of hectare is 6 Ha and mineral loss to be accepted by proponent and accept it as a part of TOR. (iii) PP should calculate the total distance they have to leave from the mine including this 150m over a width of 100m on either side of the central line and submit the revised mining plan. (iv) PP should submit the delineation of water bodies and the measures taken to protect the water bodies both inside in ML area mine and outside ML area. (v) PP should submit the proper surface plan indicating mining area, non-mining area, dump area, buffer zone for overhead lines and well-defined roads be given on the surface plan duly authenticated by IBM, (vi) PP should upload the Approval of Mining Plan in the PARIVESH portal. (vii) PP submitted that the 258.23 ha is private agricultural land and remaining land 8.072 ha is government land (Clause 4, ii, Pg. No.11 of Prefeasibility report). But, as per the LOI, there is no government land. PP should submit the actual land use classification with supporting document. (viii) PP should submit the Affidavit in a Non-Judicial Stamp paper as per Ministry's OM dated 30.05.2018. (ix). PP should submit the details of the court case pending at the High Court of Madhya Pradesh at Jabalpur. The proposal was

delisted from the PARIVESH portal on 07.02.2021 due to non-submission of information as sought by EAC and the proposal relisted again on 24.02.2021. Since the PP submitted the incomplete information, the Ministry sought desired information/details on 10.03.2021 and the PP submitted the information on 12.03.2021. The Ministry examined the proposal and noted that PP has submitted incomplete information, Ministry ask the PP to submit the incomplete information was on 31.03.2021 and the PP submitted the information on 05.04.2021. The proposal was re considered in the 31st EAC meeting held during 9th - 11th June, 2021 wherein PP submitted the following:

(i) PP submitted that that revenue generation due to mining of limestone will be more than 146 time than the loss of income from agriculture activities. Needless to mention that land owners shall be adequately compensated on mutually agreed terms and in compliance of the statute while purchasing their lands. In addition, local population will also be benefitted from direct and indirect employment opportunities due to mining project part from CSR activities of Company like infrastructure development for health, education, drinking water, Swachh Bharat Mission, Income Generating Schemes, Capability development trainings for Self Employment etc. (ii). PP submitted that No habitation will be disturbed / displaced during course of mining Safety barrier of 100 m will be left between all habitation and mine pits. Total area covered by this safety barrier will be 29.05 Ha. Plantation will be done in the safety barrier @ 1000 trees per ha. in proper layout of rows and selected species to form a thick green belt. The thick green-belt will help in minimizing effect of Air and Noise Pollution on habitation. (iii) PP submitted that as per Regulation 109 of the Metalliferous Mines Regulations, 1961, No workings shall be made to any point within 45 metres of any public works or of any public road or building, or of other permanent structure not belonging to the owner of the mine, without the prior permission in writing of the Chief Inspector and subject to such conditions as he may specify therein. As per above-mentioned regulation, no permission is required from DGMS for working upto 50 meter away from power line and relaxation given under this. Mining Plan has been approved by Indian Bureau of Mines, Jabalpur vide letter no. MP/ Satna/ Limestone/ MPLN/ G-04/ 2020-21 dated 16.09.2020. In the mining plan it is proposed to leave 50-meter wide safety barrier from Power Line. Also it is certified in the mining plan that "The provisions of Mines Act, Rules & Regulations made thereunder have been observed while preparing the Mining Plan" Hence, we request to consider our above submission and drop the ADS of mining plan revision. (iv) PP submitted that Toposheet showing delineating water bodies within and outside ML and the measures taken to protect the water bodies both inside in ML area mine and outside ML area. (v) PP submitted the Surface plan showing surface features and conceptual plan showing mining area, non-mining area, dump, buffer zone etc. duly approved by IBM. For the convenience of understanding, features of both the plans are merged and shown in a plan. (vi) PP submitted the approval of mining plan letter no DEVCO/MOEFCC/MP/ML-2 dated 23.02.2021. (vii) PP submitted that there was no

mention of Govt. land in khasra schedule attached with Lol, however, while preparing mining plan for approval of IBM, latest khasra ownership records were obtained and we noticed that part of some of the khasra were vested to Govt. for canal and road purpose. (viii) PP submitted the Affidavit in a non-judicial Stamp paper as per Ministry's OM dated 30.05.2018. (ix) PP submitted the details of the court case (Writ Petition No. 484 of 2017) pending at The High Court of Madhya Pradesh at Jabalpur.

5. Details of Mine lease

S. no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Minerals	Period of Grant		Granted by	Mine lease area in Ha
				From	To		
1	Letter of Intent No F3-8/2011/12/1	03.01.2018	Limestone	50 years		Government of Madhya Pradesh	266.302
2	Grant of mining lease Lr No AF 3-8/ 2014/ 12/1	13.01.2021	Limestone	27.03 .2021	26.03 .2071	Government of Madhya Pradesh	266.302

PP submitted that the total lease area is merger of 3 separate blocks such as 177.813 Ha, 6.913 Ha and 81.576 Ha respectively.

6. Details of executed Mine leases.

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	27.03.2021	26.03.2071	Registered on 27.03.2021

7. Details of Mine Plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period		Details
				From	To	
1	Indian Bureau of Mines	MP/Satna/Limestone/MPLN/G-04/2020-21	16.09.2020	5 years		4.0 MTPA of Limestone

8. The Project Proponent submitted that fully mechanized opencast method of mining will be adopted. All operations of mining will be done by deployment of heavy

earth moving machinery for deep hole drilling, excavation, loading & transportation. Top soil will be utilized for plantation or stacked separately for future use. Drilling in hard strata will be done by DTH drills of hole dia. 115 mm. Blasted-limestone will be loaded in to the dumpers by loaders/ excavators. These materials will be transported to the crushing plant. PP also reported that Total Geological reserve is 86.46 Million Tonnes and Mineable reserve is 33.96 Million Tonnes. As per the mineral reserve, the total life of mine is 12 years. The Limestone extracted from the mining lease will be utilized in the captive cement plant situated at Village Bharauli & Itahara, Tehsil Maihar, District Satna, Madhya Pradesh.

9. The Project Proponent submitted that Total water requirement is estimated to be about 412 KLD. Out of this, about 330 KLD water will be used for dust suppression at crusher, 60 KLD will be used for plantation, 7 KLD will be used for domestic purpose and 15 KLD will be used at workshop. Initially water will be met from ground water and from harvested pit in later stages. PP also reported that the Ground water table will be intersected at 45 m bgl only in Block 1. The domestic waste water will be treated in the septic tank and soak pit.

10. The Project Proponent reported that the Plantation & Greenbelt on safety barriers, along lease, road, HT line and other areas will be done on 20.0 Ha at the end of 1st five year and 46.64 Ha at the end of life of mine. Plantation will be done as per the CPCB guidelines and as per IBM approved mining plan. Local forest department shall also be contacted for finalization of plant species.

11. The Project Proponent submitted that no forest land is involved in the mining lease area. The Project Proponent reported that the nearest forest from the mine site are Sirgo RF (8.2 km, NW) and Papra RF (9.2 km, SE). PP also submitted the nearest river/nala and other sensitive areas from the mine site are Tamasa / Tons river (6.9 km, W), Bihar river (7.6 km, SE), Serainji nala (1.9 km, S), Bakauli nala (8.0 km, N), Pathana nala (9.2 km, WNW) and Kaimur Hill range (4.3 km, S). PP further submitted that there are no wild life sanctuaries, national parks, eco-sensitive zones, elephant/tiger reserves within 10 km of the mine lease area.

12. The Project Proponent reported that M/s SNS Minerals Limited has filed a writ petition having number 484 of 2017 in Madhya High Court at Jabalpur verses MP State Govt. and Others claiming their rights for grant of mining lease over certain areas which includes 13.702 Ha in Khasra No. 1083, 1084, 1086, 1087 and 1088 of Bathiya village falling within LOI area of 266.302 Ha issued in favour of AAA resources Private Limited. The case is pending at the High Court of Madhya Pradesh at Jabalpur. PP also submitted an undertaking for above litigation vide letter no RCCPL/DEVCO/ MOEFCC/ MP/ML2 dated 28.09.2020 for abiding by the order of the Hon'ble High Court of

Jabalpur in respect of Writ Petition no. 484/2017, it is stated that I, Dr. Ashok Kumar Singh, Authorized Signatory on behalf of M/s AAA Resources Private Limited undertake that: (i) M/s AAA Resources Private Limited is applying for grant of TOR for the above Limestone Mining Lease. (ii) M/s AAA Resources Private Limited is committed to abide by the order of the Hon'ble High Court. (iii) In case the Court verdict is not in favour of M/s AAA Resources Private Limited, it shall apply for necessary amendment in TOR.

13. The Project Proponent submitted that the total cost of the project is Rs. 255.72 crores. PP also reported that during project period, 105 people (direct: 15 & Indirect 90) and during operation period, 132 people (Direct 24 & Indirect 108) people will be employed.

14. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th - 15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference of M/s AAA Resources Private Limited for Bathiya Limestone mine with Total excavation: 8.84 MTPA, Limestone: 4.0 MTPA, Waste/reject: 4.43 MTPA Topsoil: 0.41 MTPA in the mine lease area of 266.302 Ha at Bathiya, Barahiya, Karaundi, Chapna and Tamoria villages, Tehsil: Maihar, District: Satna, State: Madhya Pradesh for undertaking detailed EIA/EMP study along with the following specific conditions:-

- i. The Project Proponent shall undertake the adequate plantation with the seedling of 10 ft height with at least 90% survival rate and the plantation shall be completed within 2 years from the start of mining operations. Undertaking in this regard needs to be submitted by the PP.
- ii. The Project Proponent should treat the two blocks as a separate mine for study purpose. The study area of 10km radius should be considered for each mine separately from the periphery of the mine lease boundary.
- iii. The Project Proponent needs to submit the detailed ecology restoration plan.
- iv. The Project Proponent needs to carry out a cumulative impact assessment considering all the other mines, crushers and cement plants in the study area.
- v. The Project Proponent needs to submit the traffic density study.
- vi. The Project Proponent needs to submit the plan to address the current hydrogeology and the likely change of hydrogeology within the mining lease area and outside the mining lease area due to mining.

1.3 Proposal for Environmental Clearance (EC) of M/s Prism Johnson Limited for Proposed production of Limestone mine with 3.0 Million TPA Limestone Production Capacity and 1.135 Million TPA Overburden including Soil (Total Excavation 4.135 Million TPA) in the mine lease area of 176.619 ha at Villages Chulhi & Majhiyar, Tehsil Kotar, District Satna, Madhya Pradesh - [Proposal no: IA/MP/MIN/76001/2018; File No. IIA-J-11015/86/2018-IA-II(M); Consultant: JM EnviroNet Pvt Ltd] - Environmental Clearance (EC).

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s Prism Johnson Ltd is for grant of Environmental Clearance for Proposed Limestone Mine (ML Area: 176.619 ha.) with 3.0 Million TPA Limestone Production Capacity and 1.135 Million TPA Overburden including Soil (Total Excavation 4.135 Million TPA) at Villages Chulhi & Majhiyar, Tehsil Kotar, District Satna, Madhya Pradesh. The mine lease area located between Latitude 24°35'16.54"N to 24°36'30.00"N and longitude 80°58'56.46"E to 81°00'47.67" E. The mine lease area falls under the Survey of India Toposheet No G44U14 and G44V2 and in seismic zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Prism Johnson Ltd has made an online application vide proposal no. IA/MP/MIN/76001/2018 dated 12.02.2021 along with the Form2 and EIA report after conducting the public hearing on 14.08.2020 under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level. The proposal was earlier considered in the 29th EAC meeting held during 15th-17th March, 2021, wherein the Committee deferred the proposal for want of information. (i) The demand of the electricity i.e. 1000 KWh as proposed by the PP shall be used for mine illumination purpose and not for other purpose. The details of the emissions of Sulphur dioxide and Hydrogen Sulphide from the operating machines at the site to be submitted in the EIA Report, (ii) The project proponent needs to submit the detailed plan for assessing each block with the mineable reserves and production proposed. PP need to clarify the blocks will be assessed simultaneously or one followed by other. PP need to submit the production schedule for each block in a single table for entire life of mine. PP should also submit the undertaking in this regard, (iii) The project proponent needs to submit the block wise progressive mining and closure plan, (iv) The

project proponent needs to predict the air quality modeling with the impact of distance for each block separately to understand the impacts of sensitive receptors for total excavation. Isopleths should also be drawn to show the impact on the reserve forest area falling within three blocks, (v) The project proponent should address the separate scenario for transportation on approach road as well as tar road integrating the isopleths of area and point source at the mine with 20 km/hr and 25 km/hr with 25 T. PP shall also submit the integrated pollution scenario for dust generation and emission from truck, (vi) The Project Proponent should also demonstrate the worst-case meteorological conditions with EMP and without EMP to understand the efficacy of the EMP, (vii) The Project Proponent should simulate a noise modeling showing the anticipated noise level along with the distance in each block separately considering all the mining activity, (viii) The Project Proponent should give undertaking that they will restrict the use of public road beyond 8 PM to 8 AM. The use of public road with 25T trucks to be restricted with a speed limit of 20 km/hr, (ix) The Project Proponent needs to prepare an action plan to reduce the pressure on the forest by providing LPG cylinders to the villagers, dwellings in the forest area and workers of the mines, (x) The Project Proponent should submit the copy of the letter obtained from the DFO vide letter no 5320 dated 04.06.2019 regarding no forest land involved, (xi) The Project Proponent should submit the NOC obtained from CGWA for withdrawal of water.

3. The PP submitted the information vide Lr MIN/2021-210168/2021-210172 dated 13.04.2021. The proposal was considered in the 31st EAC in its meeting held on 9-15 June, 2021 wherein PP submitted the following: (i) PP submitted that 1000 KWH power will be used for mine illumination as well as for office use etc. The machinery & equipment required for mining operation will be Excavator, Haul Pack, Dumper, Rock Breaker, Dozer, Drill Machine and Pump. Diesel consumption by machineries is calculated as 0.5 Litre per tonne of material. So, total diesel consumption per day will be ~6.8 or 7 KLD. SO₂ generation from the operating machines will be 1.05 gm/day. Company has also proposed to use bio diesel up to 25% to reduce the SO₂ generation. However, Air quality modeling has been carried out to predict the impact due to SO₂. (ii) PP submitted that Mining in three blocks will not be done simultaneously, it will be done first in Block II (1 to 6.5 years), then in Block I (6.5 to 17.5 years) and finally in Block III (17.5 to 40 years). Undertaking in this regard has been submitted by PP, (iii) PP submitted that Closure plan will be prepared first for Block II (after 6.5 years), then for block I (after 10 years) and finally Block III (after 23.5 years), (iv) PP submitted that Ambient air quality modelling has been carried out composite for three blocks as well as separate for each block by using Model AERMOD version 9.9.0 for prediction of impact of the proposed mining activity on the air quality of the study area. Impact prediction has been carried out for total excavation of 4.135 million TPA, (v) PP submitted that Transportation of limestone from mine face to the limestone crusher at the cement Plant

at Village Mankahari of the lessee by tipper (25 tonner). ~0.90 km length of approach road will be constructed by company. Percentage of utilization of road will be from 31 to 48%, (vi) PP submitted that Ambient air quality modelling has been carried out normative as well as for worst-case meteorological conditions with EMP and without EMP. Impact prediction in worst-case meteorological conditions has been calculated block wise, (vii) PP submitted that Noise Impact Prediction has been carried out using iNoise Software V 2020.0 by DGMR Software. The model reflects noise levels due to operation of HEMMs viz. Drills, hydraulic excavators, Dumpers, Tippers, water tankers and other medium sized vehicles within lease area, (viii) PP submitted the undertaking dated 08.04.2021 that we will transport limestone from 8 AM to 8 PM with 25 Ton Tipper with maximum speed of 20 km/hr on public road, (ix) PP submitted that there are total 330 no of houses in the Villages Chulhi & Mjahiyar including forest dwellers, of which 85 houses have gas connection while the balance 245 houses do not have gas connection. Manpower for the mining operations will be hired from these 2 villages subject to their qualification. Company will provide fresh gas connection to these 245 households apart from 2 no of cylinders per annum, (x) PP submitted the NOC from DFO vide letter no 5320 dated 04.06.2019 regarding no forest land involved and Further, Confirmation for the same has also been received from Chief Wildlife Warden & Principal Chief Conservator of Forest vide letter no wildlife/Maa.Chi/GEN-255/7156 dated 27.11.2020, (xi) PP submitted that the total water requirement for the proposed project will be 67 KLD in which, drinking water of 3 KLD will be sourced from ground water by means of bore well in existing cement plant. All other water requirement will be met from the surface water accumulated in the adjacent mining pits of Prism Cement (during first year). After 1st year of mining operations, rainwater accumulated in mine pits shall be sufficient to meet the overall water requirement. Application has been submitted to CGWA for Water abstraction as well as for de-watering (which will be required after the Plan period) vide NOC No 21-4/1084/MP/MIN/2021 dated 10.02.2021. Approval from CGWA is in process.

4. The details of the ToR are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
30.07.2018	IA/MP/MIN/76001/2018	August 24, 2018 and October 23-24, 2018	Terms of reference	18.11.2019

5. Details of Mine lease

S. no	Grant of PI/mine	Date of the grant	Name of the	Period of Grant	Granted by	Mine lease
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	lease/ Order		Minerals	From	To		area in Ha
1	Prospecting License vide vide order no. F2-55/2007/12/1	14.03.2008	Limestone	2 years		Government of Madhya Pradesh	
2	Letter of Intent vide order no F3-60/2008/12/1 Bhopal	25.04.2017	Limestone	50 years		Government of Madhya Pradesh	176.619
3	Letter regarding name change in LOI from M/s Prism Cement Limited to "M/s Prism Johnson Limited" vide Lr 4397/1825/2018/12	20.09.2018	Limestone	-	-	Directorate of Geology and Mining	176.619
4	Grant of Mining lease vide Lr 3-60/2008/12/1	22.07.2019	Limestone	04.11.2019	03.11.2069	Government of Madhya Pradesh	176.619

6. Details of executed Mine leases.

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	04.11.2019	03.11.2069	MP348642019A1742560 between Govt of Madhya Pradesh and "M/s Prism Johnson Limited" registered on 04.11.2019

7. Land Ownership and land use details:

S No	Particulars	Details
1	Involvement of Forest land if any	Nil

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2	Private Agriculture land exists within the project site	176.242 ha
3	Government Land (ha.)	0.377ha
4	Government Land (ha.)	Nil
5	Gazing land exists within the project site	Nil
6	Others (Waste land)	Nil
	Water body exists within the project site as	Nil
7	Total land	176.619 ha
8	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Out of 176.619 ha 176.24ha is private land and the land acquisition is under process.
9	Existence of habitation & involvement of R&R, if any	2 no. of villages and there are 158 Project Affected Families and 29 Project Displaced Families.
10	Elevation of the project site	283 m AMSL to 299 m AMSL
11	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil

8. Details of Mine Plan:-

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period of		Details
				From	To	
1	Indian Bureau of Mines	MP/ Satna/ Limestone/MPLN/G-30/18-19	09.01.2019	5 years		3.0 MTPA of Limestone

9. The Project Proponent submitted that the mining activity will be carried out by open cast mechanized method with drilling and blasting. Mining is proposed maximum working depth of mining will be 30m in below the ground whereas the ground water table exists at an average depth of 22-25m bgl and 20-22 m bgl during pre-monsoon and during post-monsoon respectively, so mining depth will intersect the ground water table. The PP submitted that the total geological reserve is 20.81 Million Tonnes and

Mineable Reserve is 16.97 Million Tonnes. PP submitted that Life of Block I is 10 years having 6.5 Million Ton Reserve, Block II is 6.5 years having 16.9 Million Ton Reserve and Block III is 23.5 years having 14.1 Million Ton Reserve. The proposed bench height will be 8m (max) and width will be 18 m (working) and 8 m max (Ultimate). Topsoil generated from the mining activity will be stacked separately and will be utilized for plantation. Soil removed to expose the limestone underneath will be kept stacked in a temporary dump during the first year for the backfilling in the future. Con – current backfilling operation will start from the second year period onwards of the mined out area. After removing topsoil and other soil, the limestone benches will be operated by drilling and blasting. Drilling will be carried out with the help of sharp drill bits for noise reduction. Drilling will be done with water injection system & dust collector. Control Blasting will be carried out. Rock breaker will be used to avoid blasting in 100 m vicinity of habitations. The ROM is crushed to -80 mm size. There are three crushers installed. Line-I has 1200 TPH, Hammer type crusher of FLS make whereas Line-II has two separate 750 TPH Impact type crushers of L&T make. These crushers feed unit 1 and unit 2 of the cement plant. The limestone to be mined out from proposed limestone mine will be transported to the limestone crusher at mine adjacent near the cement Plant at Village Mankahari of the lessee at a distance of ~5.35 km (~2.60 km public road and ~2.75 km haul roads of existing mines) from Block III. From Block I, it will be ~3.65 km (~0.25 km approach road, 0.65 km public road and ~2.75 km haul roads of existing mines). From Block II, it will be ~3.85 km (~0.60 km approach road, 0.50 km public road and ~2.75 km haul roads of existing mines) with the help of 25 tonne capacity dumper. PP submitted vide Lr dated 11.06.2021 that the working of the mine is proposed such that one block at a time will be exploited and the progressive mine closure plan is also proposed separately. The working of the block and also its closure is planned sequentially, starting with Block II, then block I and finally Block III. Total excavated area at the conceptual stage will be 164.488 ha in which 80.99 ha area will be backfilled (49.23% of total excavated area) and 83.498 ha area will be converted in to water reservoir.

10. The Project Proponent submitted that the nearest Village is Majhiyar (~350 m, NW) while some habitation of village majhiyar is 70 m and some are existing in excluded area in Block I, from Block II is of Village Chulhi (Adjacent) and Village Khajurhara (~200 m in West direction) from Block III is of Village Majhiyar (~50 m in NE direction). Nearest School is ~1.2 km in South direction from mine site. There is also another school in village Chulhi. Nearest highway is 130 B (~1.8 Km in South direction). Nearest highway is NH-75 (~4.5 km in SSW direction).

11. The Project Proponent submitted that the total water requirement for the proposed project will be 67 KLD which will be sourced from two separate sources; the drinking water of 3 KLD will be sourced from ground water by means of bore well. All

other water requirement will be met from the surface water accumulated in the adjacent mining pits of Prism Cement. Application has been submitted to CGWA for Water abstraction and de-watering vide NOC No 21-4/1084/MP/MIN/2021 dated 10.02.2021 and is under process.

12. The Project Proponent submitted that green belt will be done on 10.0 ha area on 7.5 m safety zone of lease boundary. Plantation will be done on 83.121 ha (80.99 ha on backfilled area & 2.13 ha area on safety barriers). Thus, total greenbelt/plantation will be done on 93.121 ha area. PP reported that about Rs 2.99 Crore proposed as cost for development of plantation/greenbelt over 93.121 Ha including cost for sapling, fertilizers, tree guard, tool stackers and maintenance etc. The area designated for each year shall be planted with trees and shrubs @ 2000 Plants/ ha.

13. The Project Proponent reported that there is no National Parks, Biosphere Reserve, Wildlife Corridors, and Tiger/Elephant Reserves/ Critically Polluted area/Aravali located within the radius of 10km of the mine lease area. PP submitted that there is no forest land. PP reported that there are no Schedule-I species duly authenticated by DFO vide letter no Maa.Chi/5959 dated 21.06.2019 and from Chief Wildlife Warden & Principal Chief Conservator of Forest vide letter no wildlife/Maa.Chi/GEN255/7156 dated 27.11.2020.

14. The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Summer Season. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2019 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period					
AAQ parameters at 12 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	24.2	46.5	46.1	60
	PM10	53.8	89.2	88.4	100
	SO2	6.3	13.3	13.1	80
	NOx	10.7	14.3	24.0	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	34.3	0.69	34.9	60
	PM10	73.5	2.30	75.8	100
	SO2	10.6	1.71	12.3	80
	NOx	17.9	1.81	19.7	80
Noise level at 12	Day Time: 51.5 to 62.4 Leq dB (A)				

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locations	Night Time: 42.0 to 58.9 Leq dB (A)
Ground water quality at 10 locations	pH of collected water samples varied from 7.03 to 8.10, Total hardness varied from 265.20 to 588.50 mg/l, Total dissolved solids varied from 456 to 789 mg/l, Conductivity varied from 706 mg/l to 1201 mg/l, the water samples contain, chloride from 27.87 to 79.85 mg/l, SO ₄ varied from 33.68 to 210.51 mg/l, Fluoride 0.72 to 1.23 mg/l, Ca from 81.76 to 179.88 mg/l, Mg varies from 13.63 to 42.99 mg/l.
Surface water quality at 4 locations (Fresh assessment of surface water quality has been carried out on 23/12/2018 to 24/12/2018)	pH of collected water samples varied from 7.39 to 7.46, Turbidity varied from 4.0 to 14.0 NTU, Total hardness varied from 100 mg/l to 265 mg/l, Total dissolved solids varied from 171.0 mg/l to 362.0 mg/l, Fluoride as F varied from 0.34 mg/l to 0.97 mg/l, BOD varied from 5.20 mg/l to 9.60 mg/l and COD varied from 11.80 mg/l to 22.80 mg/l.
Soil quality at 10 locations	The soil sampling was done in 10 locations which reveals that pH value ranged from 7.23 to 8.15, the soil texture is silty clay at the sampling locations. The organic matter% ranged from 0.68% to 1.24%. The concentration of Nitrogen varied considerably from 162.48 kg/ha to 307.16 kg/ha and Phosphorous found in less to medium amount i.e. from 6.61 to 40.71 kg/ha, whereas the Potassium is found to be ranging from 102.85 to 391.44 kg/ha, which is from less to average in quantity.
Traffic assessment study findings	PP submitted that impact on existing roads has been calculated for peak production capacity. It is seen that percentage of utilization of road will increase from 31% to 55%. To reduce the impact on existing road, same shall need to be widened and strengthened as per IRC guidelines to enhance road way capacity and safer commuting environment for the mixed mode traffic witnessed on the existing road.
Flora and fauna	PP reported that there are no Schedule-I species duly authenticated by DFO vide letter no Maa.Chi/5959 dated 21.06.2019 and from Chief Wildlife Warden & Principal Chief Conservator of Forest vide letter no wildlife/Maa.Chi/GEN255/7156 dated 27.11.2020.

15. Public Hearing.

Details of Advertisement given	04.07.2020
Date of Public Consultation	14.08.2020
Venue	Shashkiya Prathmik Shala, Adiwasi Basti Chulhi, Vikas khand Rampur Baghelan, Tehsil Kotar, District Satna (Madhya Pradesh)

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

Presiding Officer	Shri I.J. Khalkho Additional Collector, Satna and Dr. A.K.Shrivastav: Regional Officer, Regional Office (MPPCB), Satna (Madhya Pradesh).
Major Issues Raised	education, health facility, infrastructure development, water arrangement, employment, compensation to farmers etc.
No of People Attended	120

16. Public hearing action plan as per MoEF&CC O.M. dated 30/09/2020.

Sl.	Activities	Yr1	Yr2	Yr3	Total (Rs. In Lakhs)
1	6 Computers, 6 Nos. Smart boards, wifi facility and water coolers (6) & RO (6) will be provided in School at Villages Chulhi, Majhiyar & Malgaon.	√	√	√	15.0
2	Furniture (table & Chair) for 200 students from Class 1 to 8 in school at Villages Chulhi, Majhiyar and Malgaon	√	√	√	10.0
3	Skill development training center	√	√	√	15.0
4	Mobile Health Van for Chulhi/ Majhiyar & Malgaon Village	√			13.0
5	Drinking Water facility in Villages Chulhi, Majhiyar & Malgaon. (3 Nos Bore 3 Nos Hand pump) and pipeline will be provided	√	√	√	35.0
6	Construction of Drainage system in Chulhi Village	√	-	-	13.0
7	Construction of Toilets (40 numbers)	√			2.0
8	Playground at Village Majhiyar and Hinoti		√		20.0
9	Road repairing from Village Chulhito Nai Basti.	√	√	√	3.0
10	Solar lights at Villages Chulhi, Majhiyar & Malgaon	√	√	√	10.0
11	Plantation in Primary School at Adiwasi Basti and government school at Majhiyar & Malgaon along with road (Total plantation 30000)		√		5.0
12	Construction of Waiting hall at Majhiyar mod at village Majhiyar		√		4.0
13	Boundary wall at Govt. Primary School, Adivasi Basti, Chulhi	√	√	√	10.0
14	Ground Water Conservation & Water Harvesting Structures	√			2.0

17. The Project Proponent submitted that the total ML Area is 176.619 ha falls in revenue land of 2 Villages (Chulhi & Majhiyar). Out of total mine lease area; 0.377 ha is Government land and 176.242 ha is a private land (Agricultural land). Land will be purchased through mutual agreement and negotiation. There are 158 Project Affected Families. There are 11 SC families out of 29 coming within the mine lease. There is no ST family involved in this project. Total budget for R&R is Rs. 52.542 Crores.

18. The Project Proponent submitted the affidavit dated 11.02.2021 that the company hereby undertake by affidavit shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.

19. The Project Proponent submitted that the budget earmarked for Environmental Management Plan (EMP) shall be Rs. 4.34 Crore (Capital) & Rs. 1.25 Crore (recurring/annum). which includes i) Rs 68.0 Lakh (Capital) & Rs 6.0 Lakh (recurring) for Air Quality monitoring and Protection, ii) Rs 8.0 Lakh (Capital) & Rs 2.20 Lakh (recurring) for Water Quality monitoring and Preservation, iii) Rs 3.0 Lakh (Capital) & Rs 0.75 Lakh (recurring) for Noise and Vibration monitoring and Preservation, iv) Rs 190.0 Lakh (Capital) & Rs 113.80 Lakh (recurring) for Plantation and Greenbelt Development. PP earmarked budget for Occupational Health and Safety for Rs 3.50 Lakh as recurring cost.

20. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up.

21. The Project proponent submitted an undertaking for compliance of Common Cause order and other statutory requirements by the way of an affidavit on Rs 100 (Non judicial Stamp paper) bearing certificate number 01013430062020000468 dated 11.02.2021. In addition to this PP submitted an undertaking dated 01.02.2021 & that all the data and information given in the application, enclosures, and other documents are true. The Consultant submitted the NABET Accreditation Certificate NABET/EIA/2023/RA 0186 which was valid up to 07.02.2023. The Project Proponent submitted an undertaking dated 01.02.2021 to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide Letter No. 110115/86/2018-IA.II(M) on 18.11.2019 have been complied with, and the data submitted and the information presented in this report are factually correct. The Consultant submitted an undertaking dated 09.02.2021 to the effect that the ToRs prescribed by MoEF&CC, New Delhi vide Letter No. J-110115/86/2018-IA.II(M) on 18.11.2019 have been complied as per data/details provided by Project Proponent & as per approved Mining Plan approved by IBM and the data submitted are factually correct.

The Consultant also given declaration that the Consultant Organization shall be fully responsible for any misleading information mentioned in this statement.

22. The capital cost of the project is Rs. 82.332 Crore and the capital cost for environmental protection measures is proposed as Rs. 4.34 Crore. The annual recurring cost towards the environmental protection measures is proposed as Rs. 1.25 Crore. The employment generation from the proposed project is 96 Nos.

23. The proposal for Environmental Clearance was considered in the 31st EAC meeting held during 9th - 15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of M/s Prism Johnson Limited for Proposed production of Limestone mine with 3.0 Million TPA Limestone Production Capacity and 1.135 Million TPA Overburden including Soil (Total Excavation 4.135 Million TPA) in the mine lease area of 176.619 ha at Villages Chulhi & Majhiyar, Tehsil Kotar, District Satna, Madhya Pradesh with the following specific conditions in addition to the standard conditions applicable for non- coal mining projects:-

- i. The budget of Rs 1.65 Crores 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.
- ii. The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth.
- iii. The Project Proponent shall strictly adhere that the transport of limestone shall be from 8 AM to 8 PM with 25 Ton Tipper with maximum speed of 20 km/hr on public road.
- iv. The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- v. The Project Proponent should undertake regular monitoring of ground water level and surface water quality and take preventive measures for protection of water bodies within the lease area as well as nearby the mines.

- vi. The Project Proponent shall conduct the detailed hydrogeological study and obtain the NOC/permission from CGWA before intersection of ground water table. The mining operations shall be restricted to above ground water table and it should not intersect the ground water table till obtain the NOC from the CGWA.
- vii. The Project Proponent shall provide the fresh gas connection to 245 households and 2 no of cylinders per annum.
- viii. The Project Proponent shall obtain the NOC from CGWA for intersection of ground water table.
- ix. The topsoil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- x. Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.

1.4 Proposal for Amendment in Environmental Clearance vide J-11015/75/2017-IA-II(M) dated 21.02.2020 w.r.t. mineable production capacity and depth of mining for the year of 2021-22 for production capacity from 8.39 LTPA to 12.056 LTPA from an effective mineable area of 24.25 ha. [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.91 meter from the original ground level as reported in the replenishment study for Mining of River Bed Materials(Boulder, Gravel & Sand Minor Minerals) from Rattewali Block/ PKL B 10 Project (MLA: 45.00 ha) located at Rattewali Village, Tehsil-Barwala, District Panchkula, Haryana-Proposal no: IA/HR/MIN/207438/2021; File No. J-11015/75/2017-IA-II(M); - Amendment in Environmental Clearance (EC) regarding.

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s Tirupati Roadways is for Amendment in Environmental Clearance vide J-11015/75/2017-IA-II(M) dated 21.02.2020 w.r.t mineable production capacity and depth of mining for the year of 2021-22 for production capacity from 8.39 LTPA to 12.056 LTPA from an effective mineable area of 24.25 ha. [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.91 meter from the original ground level as reported in the replenishment study for Mining of River Bed Materials (Boulder, Gravel & Sand Minor Minerals) from Rattewali Block/ PKL B 10 Project (MLA:

45.00 ha) located at Rattewali Village, Tehsil- Barwala, District Panchkula, Haryana. The mine lease area located between Latitude 30° 38' 33" N to 30° 39' 24.6 " N and Longitude: 76° 59' 17.50" E to E 76° 50'00" E. The mine lease area falls under the Survey of India Toposheet No H43K14 & H43L2. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Tirupati Roadways has made an online application vide proposal no. IA/HR/MIN/207438/2021 dated 31.03.2021 along with Form 4 under the provisions of EIA Notification, 2006 as amended from time to time for the project mentioned above. In the instant proposal the Khol Hai Raitan Wildlife Sanctuary is located within 1.98 km from the mine lease boundary and thus the project was considered as Category 'A' project in the Ministry.

3. The Project Proponent submitted that Environmental Clearance was granted vide MoEF&CC F. No J-11015/75/2017-IA-II(M) dated 21.02.2020 wherein it is specifically mentioned that

- i. *Permissible Mining of River Bed Material (Boulder, Gravel and Sand) shall be limited to 8.39 LTPA instead of requested 19 LTPA, from an effective mineable area of 24.25 ha [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.33 meter from the original ground level as reported in the replenishment study. The permissible minable material of 8.39 Lakh Ton will be valid till one year from the day of issuance of consent to Operate by HSPCB.*
- ii. *For subsequent period, PP shall submit fresh annual replenishment study to MoEF&CC for amendment in EC for mineable quantity and maximum permission depth for mining based on the scientific findings of replenishment study. Such study shall be placed before EAC for appraisal for next three years to assess rate of deposition and accordingly, minable production capacity and depth can be prescribed based on trends analysis, provided it is found scientifically satisfactory by the EAC. The placing of the study report before EAC is mandatory for initial three years.*

4. Now Project Proponent is requesting for amendment in mineable production capacity and depth of mining for the year of 2021-22 for production capacity from 8.39 LTPA to 12.056 LTPA from an effective mineable area of 24.25 ha. [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.91 meter from the original ground level as reported in the replenishment study.

5. The Project Proponent submitted that the Replenishment Study was carried out Pre monsoon (June, 2020) and Post monsoon (September, 2020). For the replenishment study two methodologies were adopted for data acquisition, pre monsoon

data was collected using a total station and post monsoon data was collected with a multicopper UAV/Drone. The entire lease area was suitably divided in grids of 25m x 25m with the help of cross sections across the width of river and along the flow of river. The mineable area is considered as 3/4th width of the river and rest 1/4th is under non-mining area- Statutory Barrier zone (SBZ). The calculation of volume of deposits was made based on the survey data arising out of pre and post monsoon survey and standard calculation methods (Cross-sectional area method and difference between Digital Elevation Model (DEM)). The estimated replenished deposit during the Pre & Post Monsoon 2020 study along the river stretch in mineable blocks of ML Area is estimated as 4,63,721 m³ or 12,05,673 Tonnes which can be treated as safe extractable material within the framework of this study. The past year's replenishment study 2019 was done in the lease area had shown 1.33m replenishment whereas this year study reveals the replenishment of 1.91m within the three mineable blocks of ML area. As per Replenishment Study Report 2020, an in-situ volume of 463721 or 12.056 LTPA can be mined till next monsoon. PP reported that the 6.76 lakh tonnes of production achieved during March 2020 to March 2021.

6. The Project Proponent submitted the Consent to Operate issued by the Haryana State Pollution Control Board vide No. HSPCB/Consent/313100420YAMCTO7740676 dated 22.07.2020 for a production of 6333 Metric Tonnes/Day of Sand Gravel and is valid up to 30.09.2023. PP also submitted an affidavit dated 02.06.2021 stating that the project activity pertaining to the mining lease has not been in violation of the order dated 02.08.2017 of the Hon'ble Supreme Court in the matter of Writ Petition (Civil) No. 114 of 2014, Common Cause vs UOI.

7. The proposal for Amendment in Environmental Clearance was considered in the 31st EAC meeting held during 9th - 15th June, 2021. After detailed deliberations made by the Project Proponent, the Committee observed that although the replenished quantity is 12.056 Lakh Tonne but the actual production achieved was 6.76 Lakh Tonnes as against the approved quantity of 8.39 Lakh Tonnes for 2020-21. The Committee thus of the view that PP shall first achieve the already approved quantity and implement the conditions as stipulated in the Environmental Clearance and Sustainable Sand Mining Management Guidelines 2016 and Enforcement and Monitoring Guidelines 2020.

As per Environmental Clearance letter noJ-11015/75/2017-IA-II(M) dated 21.02.2020, one of the condition was "PP shall submit fresh annual replenishment study to MoEF&CC for amendment in EC for mineable quantity and maximum permission depth for mining based on the scientific findings of replenishment study. Such study shall be placed before EAC for appraisal for next three years to assess rate of deposition and accordingly, minable production capacity and depth can be prescribed

based on trends analysis, provided it is found scientifically satisfactory by the EAC. The placing of the study report before EAC is mandatory for initial three years”.

While granting EC last year it was desired by EAC that three years data base for replacement of sand is required for taking decisions on grant of EC for longer duration. Also the precautionary principle applies in the interest of river ecology. Further it was also observed that Compliance to EC conditions was not satisfactory. In view of this, EC amendment for Enhancement quantity and excavation for more depth is not acceptable at this stage with limited data. The EC granted to project earlier, however is validated for one more year.

The Committee therefore **recommended** that specific condition No 21.A(1) of EC dated 21.02.2020 is amendment as “*Permissible Mining of River Bed Material (Boulder, Gravel and Sand) for the F.Y 2021-22 shall be limited to 8.39 LTPA from an effective mineable area of 24.25 ha [B-1 (11.33 ha), B-2 (4.5 ha) & B-3 (8.3 ha)], with a maximum minable depth of 1.33 meter from the original ground level.*” The other terms and conditions of EC Lr. No J-11015/75/2017-IA-II(M) dated 21.02.2020 shall remain the same.

DAY 2 - 10.06.2021

2.1 Proposal for amendment in Environmental clearance of M/s NMDC Limited for Bailadila Deposit 14/11C project (935.522 Ha, 12.00 MTPA ROM Iron ore) located at Bailadila Range Hills at Village Kirandul, South Bastar, Dante-wada District, Chhattisgarh by exclusion of Deposit 11C part (Area 106.412 Ha and 1.5 MTPA ROM Iron Ore) and modifying to “Bailadila Deposit-14 & 14NMZ (829.11 Ha, 10.5 MTPA ROM)” as per specific condition no: 1 & 2 of TOR letter dated 24.09.2019 [Proposal no. IA/CG/MIN/204681/2021; File No. J-11015/483/2007-IA.II(M), Consultant: Ecomen Laboratories Pvt. Ltd] - Amendment in EC.

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal is for Amendment in integrated environmental clearance granted vide Lr. No. J-11015/483/2007-IA.II (M) dated 11.09.2007 to M/s NMDC Limited for Bailadila Deposit 14/11C project (935.522 Ha, 12.00 MTPA ROM Iron ore) located at Bailadila Range Hills at Village Kirandul, South Bastar, Dante-wada District,

Chhattisgarh by exclusion of Deposit 11C part (Area 106.412 Ha and 1.5 MTPA ROM Iron Ore) and modifying to “Bailadila Deposit-14 & 14NMZ (829.11 Ha, 10.5 MTPA ROM)” as per specific condition no: 1 & 2 of TOR letter dated 24.09.2019. Deposit-14 ML lies between Latitude 18°36’11” to 18°37’35”N & Longitude 81°13’16” to 81°14’45”E. Deposit-14 NMZ ML lies between Latitude 18°36’44” to 18°38’32”N & Longitude 81°13’55” to 81°15’24”E. The mine lease area falls under the Survey of India Toposheet No E44J2 & J6. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s NMDC Limited has made an online application vide proposal no. IA/CG/MIN/204681/2021 dated 07.04.2021 along with Form 4 under the provisions of EIA Notification, 2006 as amended from time to time for the project mentioned above. 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 Central level.

3. The Project Proponent submitted that integrated environmental clearance was granted vide Lr. No. J-11015/483/2007-IA. II(M) dated 11.09.2007 to M/s NMDC Limited for Bailadila Deposit 14/11C project for total lease area 935.522 Ha and production capacity 12.00 MTPA ROM Iron ore (Deposit 14 -322.368 Ha area & 5.0 MTPA, Deposit 14 NMZ- 506.742 Ha & 5.5 MTPA Deposit 11C- 106.412 Ha & 1.5 MTPA).

4. The Project Proponent submitted that M/s NMDC submitted application for obtaining EC for combined Mining Lease of Bailadila Deposit-11 extending over 874.924 Ha {Deposit-11A = 233.509 Ha + Deposit-11B = 535.003 Ha + Deposit-11C part = 106.412 Ha} and the ToR was issued by Ministry vide Lr. No. J-11015/70/2018-IA.II(M) dated 24.09.2019 for total excavation in Bailadila Deposit-11 Mining Lease over 874.924 Ha (11A-233.509 Ha, 11B-535.003 Ha & 11C-106.412 Ha) for total capacity 14 MTPA (11.30 MTPA ROM production (11A-2.8 MTPA, 11B-7 MTPA & 11C-1.5 MTPA) and 2.70 MTPA waste excavation) for obtaining Environmental clearance under EIA 2006 Notification with inter alia following specific conditions:

a). *PP shall continue with mining in ML-11C as per provision of EC dated 11/9/2007 and PP shall get the existing EC amended for exclusion of 11C deposit before operationalization of the EC granted for ML 11 under this TOR.*

b) *PP shall make necessary amendment in integrated EC dated 11/9/2007 for exclusion of deposit 11C before grant of EC for combined ML – 11 (i.e. 11A, 11B and 11C).*

c) *PP shall Include total excavation proposed for combined 11ML (i.e 11A, 11B and 11C) i.e 14 MTPA {i.e 11.3 MTPA ROM Iron Ore Production (11A-2.8*

MTPA+11B-7 MTPA+11C part-1.5 MTPA = 11.30 MTPA) and 2.70 MTPA waste excavation}.

4. In view of the above, PP has submitted separate application in Form-II and EIA/EMP report for obtaining EC for combined Mining Lease of Bailadila Deposit-11 Mining Lease for 874.924 Ha for 14.00 MTPA Total excavation (11.30 MTPA RoM Iron Ore + 2.70 MTPA waste excavation) as per specific condition no: 3 of TOR dated 24.09.2019.

5. Now, the proposal is submitted in Form-IV along with Addendum EIA/EMP report etc for obtaining Amendment to existing Environmental clearance of Bailadila Deposit-14/11C project (935.522 Ha, 12.00 MTPA ROM Iron ore) by exclusion of Deposit 11C part (Area 106.412 Ha and 1.5 MTPA ROM Iron Ore) and modifying to "Bailadila Deposit-14 & 14NMZ (829.11 Ha, 10.5 MTPA ROM)" as per specific condition no: 1 & 2 of TOR letter dated 24/09/2019.

6. The Project Proponent submitted that Deposit-14 Mining Lease was granted to M/s NMDC on 11/09/1965 for a period of 30 years which was valid up to 10/09/1995. The 1st renewal of mining lease was obtained on 29/06/2002 for a period of 20 years which was valid up to 11/9/2015. As per Rule 8 A, of MMDR (Amendment) Act 2015, Dep- 14 ML lease extended from 12/9/2015 to 31/03/2020. Lease renewal application was submitted to State Govt. for renewal of ML for 20 years from 11/09/2015 to 10/09/2035 vide Form- J dated 10/9/2013. Accordingly, as per rule 3(2) of Mineral (Mining by Govt. Co.) Rules, 2015 read with MMDR Amendment Act 2015, lease of Deposit 14 ML (Area 322.368 ha) is renewed for 20 years from 12/09/2015 to 11/09/2035 by Government of Chhattisgarh, Mineral Resource Department, Nava Raipur vide letter no:4-15/2014/12 dated 17/12/2019. Deposit-14 NMZ Mining Lease was granted to M/s NMDC on 06/12/1965 for a period of 30 years which was valid up to 05/12/1995. The 1st renewal of mining lease was obtained on 28/06/2002 for a period of 20 years which was valid up to 06/12/2015. As per Rule 8 A, of MMDR (Amendment) Act 2015, Dep- 14 NMZ ML lease extended from 07/12/2015 to 31/03/2020. Lease renewal application was submitted to State Govt. for renewal of ML for 20 years from 06/12/2015 to 05/12/2035 vide Form- J dated 05/12/2013. Accordingly, as per rule 3(2) of Mineral (Mining by Govt. Co.) Rules, 2015 read with MMDR Amendment Act 2015, lease of Deposit 14 ML (Area 506.742 ha) is renewed for 20 years from 07/12/2015 to 06/12/2035 by Government of Chhattisgarh, Mineral Resource Department, Nava Raipur vide letter no:4-41/2018/12 dated 17/12/2019.

7. The Project Proponent submitted that the Modified Mining Plan for Deposit 14 was submitted under Rule 22 (6) of MCR 1960 & got approved from IBM vide letter no. BST /FE/MPLN-435/NGP-15 dated 16-03-2016. The approved Modified Mining Plan is

valid for the period from 01-04-2015 to 31-03-2020. The review of Mining plan is prepared under 17(2) of MCR 2016 and Rule 23 of NMCDR 2017 based on the lease renewal application submitted to the state govt. For 20 years and approved from IBM vide letter no. Dantewada/Fe/Khanij1214/2019/Raipur/549 dated 12/12/2019. The review of Mining plan is valid for the period from 01-04-2020 to 31-03-2025. The Modified Mining Plan for Deposit-14 NMZ was submitted under Rule 17 (3) of MCR 2016 & got approved from IBM vide letter no. BST /FE/MPLN-434/NGP/2015/08-Raipur –II/265 dated 05-08-2016. The approved Modified Mining Plan is valid for the period 01-04-2015 to 31-03-2020. The review of Mining plan is prepared under 17(2) of MCR 2016 and Rule 23 of MCDR 2017 based on the lease renewal application submitted to the state govt. for 20 years and approved from IBM vide letter no. Dantewada/Fe/Khanij1216/2019/Raipur/547 dated 11/12/2019. The review of Mining plan is valid for the period from 01-04-2020 to 31-03-2025.

8. The Project Proponent submitted that Deposit-14 & 14 NMZ Mining lease area falls under Bailadila Reserve Forest under Dantewada Forest Division. Forest Clearance for Deposit 14 over 322.368 ha lease area was granted by MoEF&CC vide Letter F.No. 8-41/97–FC dated 18-06-1999. Forest clearance extended up to 11/09/2035 vide F-5-28/2006/10-2 dated 31/03/2020 issued by Forest Dept, Naya Raipur, Chhattisgarh. Forest Clearance for Deposit-14 NMZ from MoEF&CC over 506.742 ha lease area was granted vide Letter F.No. 8-40/97–FC dated 18-06-1999. Forest clearance extended up to 11/09/2035 vide F-5-10/2016/10-2 dated 31/03/2020 issued by Forest Dept, Naya Raipur, Chhattisgarh.

9. The Project Proponent submitted that MoEF&CC, Integrated Regional Office, Raipur has conducted site inspection on 23rd and 24th December 2020 with respect to compliance of conditions stipulated in environmental clearance for Bailadila Deposit-14/11C project & issued Certified EC Compliance Report vide F.No. 3-42/2007(ENV)/7734 dated 21st January, 2021.

10. The proposal for Amendment in Environmental Clearance was considered in the 31st EAC meeting held during 9th - 15th June, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that there are other parts of the project for which separate application was made. The Committee was of the view that both the proposals should be placed before the Committee to take decision on the amendment proposals and the same is also agreed by the Project Proponent. The Committee therefore **deferred** the proposal and requested PP to submit both the application complete in all respect.

2.2 Proposal for Amendment in Environmental Clearance granted vide letter no J-11015/439/2007-IA.II(M) dated 28.05.2008 w.r.t. "Transportation of 1.43 million tons of left over stock of Bauxite Ore by road" for Kodingamali Bauxite Mine of M/s Odisha Mining Corporation Ltd, with production capacity of 3.0 MTPA Bauxite ore in the mine lease area of 428.075 ha, located at Kodingamali Village, Tehsil and District Koraput, Odisha [Proposal no. IA/OR/MIN/202346/2021; File No. J-11015/439/2007-IA.II(M)- Amendment in EC

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal is for Amendment in Environmental Clearance granted vide letter no J-11015/439/2007-IA.II(M) dated 28.05.2008 w.r.t. "Transportation of 1.59 million tons of left over stock of Bauxite Ore by road" for Kodingamali Bauxite Mine (MLA:428.075 ha) of M/s Odisha Mining Corporation Ltd, with production capacity of 3.0 MTPA Bauxite ore, located at Kodingamali Village, Tehsil and District Koraput, Odisha. The mine lease area located between Latitude 19° 01' 46.35" N to 19° 05' 13.85" N and Longitude: 83° 03' 22.91" to 83° 05' 11.89" E. The mine lease area falls under the Survey of India Toposheet No. 65 M/4. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Odisha Mining Corporation Ltd has made an online application vide proposal no. IA/OR/MIN/202346/2021 dated 31.03.2021 along with Form 4 under the provisions of EIA Notification, 2006 as amended from time to time for the project mentioned above. 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 Central level.

3. The Project Proponent submitted that the EC vide letter no J-11015/439/2007-IA.II(M) dated 28.05.2008 was granted to M/s Odisha Mining Corporation Ltd for Kodingamali Bauxite Mine (MLA: 447.25 ha) with production capacity of 3.0 MTPA Bauxite ore and transportation through pipe conveyor. The EC was amended on 24.11.2017 regarding use of 400 KLD water, reducing the lease area from 447.25 to 428.075 and transportation by road limited to 1.26 Million TPA subject to required strengthening of carriageway. Subsequently PP obtained the amended in EC on 17.12.2018 w.r.t. transportation of 3 MTPA bauxite ore by road. Further, PP again obtained in the amendment in Environment Clearance on 29.05.2020 for dispatch of 0.7 million ton of leftover stock of bauxite ore mined during 2018- 19, in the current FY

2020-2021, in the distributed manner over the financial year (58333tons/month), as a special case. PP now submitted that from FY 2017-18 to FY 2020-21, total 8.752 MnT of bauxite was produced out of which 1.43 MnT remains unsold and submitted application for amendment in EC to allow for transportation of additional 1.43 MnT left over stock of Bauxite Ore in the Stock Pile within the Mining Lease Area, which could not be sold and dispatched due to Covid-19 in the Year FY 21-22 as one-time measure keeping total production limited to the already approved EC capacity 3.0 MTPA.

4. The Project Proponent submitted that State Govt. has granted the ML under Rule 8 (2) of Minerals (Other than Atomic and Hydro Carbon Energy Minerals) Concession Rules, 2016 vide letter no. III (BX) SM-06/2003/303/ SM dt. 09.01.2017. The ML has been executed on dt. 10.01.2017 and is valid till the Year 2067.

5. The Project Proponent submitted that Mining Plan along with progressive mine closure plan has been approved by IBM, Bhubaneswar vide letter no. MPM/A/LO-ORI/BHU/2019-20 dt.03.04.2020.

6. The Project Proponent submitted that the Stage-II Forest Clearance of the mine has been accorded vide letter no F.No. 846/2016-FC dt 25th Sept, 2017 for an area of 434.935 ha including 428.075 ha ML area including 18.098 Ha of forest land in Safety Zone & 6.860 ha of forest land out-side the ML area for construction of for approach road to the mining lease.

7. The Project Proponent reported that as per the Revised RTO Guidelines issued by the Ministry of Transport, Government of India dated 16.07.2018: Truck Carrying Capacity of the 3-Axle Rigid Truck is increased from net 15 Ton per trip to net 18 Ton per Trip. PP submitted that considering 330 day of transportation- R-1 road belonging to OMC exclusively used for bauxite transportation only from Kodingamali mines. PP reported that due to proposed amendment there will be increase in transportation and submitted that normal and worst case scenario of air pollutants and the predicted maximum concentrations of PM_{2.5}, NO₂ and CO found to be in the range of 34.8 µg/m³, 24.0 µg/m³ and 1.689 mg/m³ which is within the limits of NAAQS.

8. The Project Proponent submitted that Current Consent to Operate (CTO) have also been granted by the State Pollution Control Board, Odisha under the Air & Water (Prevent & Control of Pollution) Act vide letter no. 3846/IND-I-CON-6632 dated 26.03.2021 valid till 31.03.2022. PP also submitted that the EC compliance report certified by IRO, Bhubaneswar on 01.03.2021.

9. The proposal for amendment in EC was considered in the 31st EAC meeting held during 9th - 15th June, 2021. The Committee observed that the permission granted last year for transportation of storage materials of 0.7 MT over and above the production

and transport of 3.0 MTPA of Bauxite ore by road. The permission is lying for Total 3.7 MTPA for FY 2020-21. Since due to COVID-19, this material could not be transported and there is further accumulation of 0.7 MT. The PP requested for amendment in EC seeking for transport of 1.43 MT left over bauxite over and above the 3.7 MTPA. The Committee after detailed deliberations **recommended** the proposal for Amendment in Environmental Clearance by keeping the transport of 0.7 MTPA as cap. The Project Proponent is permitted to access 1.43 MT as well also the production capacity of 3.0 MTPA. However, the total dispatch from the mines during 2021-22 should not exceed in 3.7 MT in pursuant to permission already granted in FY 2020-21 as a one-time measure. For the subsequent year the total dispatch from the mines should not be more than 3.0 Million Tonne as already approved in EC dated 28.05.2008. The all other terms and conditions mentioned in the Ministry's EC letter no J-11015/439/2007-IA. II(M) dated 28.05.2008 and Amendment in EC letter no J-11015/439/2007-IA. II(M) dated 24.11.2007, 17.12.2018 and 29.05.2020 shall remain the same.

2.3: Proposal for Environmental Clearance of Sedam Limestone Mine (ML Area: 995.97 ha) with Proposed Limestone Production Capacity 5.2 Million TPA, Soil 0.062 Million TPA and Waste 0.98 Million TPA (Total Excavation 6.242 Million TPA) along with 1500 TPH Crusher (13 ha area outside the ML area for infrastructure) at Villages: Beeranahalli, Arebammanahalli, Taranahalli, Konkanhalli and Shettihuda (Sedam), Taluka: Sedam, District: Kalaburagi, Karnataka of M/s. Dalmia Cement (Bharat) Limited [Proposal no: IA/KA/MIN/154994/2020; File No. J-11015/26/2020-IA-II(M)] - Environmental Clearance (EC)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Sedam Limestone Mine (ML Area: 995.97 ha) with Proposed Limestone Production Capacity 5.2 Million TPA, Soil 0.062 Million TPA and Waste 0.98 Million TPA (Total Excavation 6.242 Million TPA) along with 1500 TPH Crusher (13 ha area outside the ML area for infrastructure)	
Location	Village	Beeranahalli, Arebammanahalli, Taranahalli, Konkanhalli and Shettihuda (Sedam)

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

	Tehsil/Taluka	Sedam
	District	Kalaburagi
	State / UT	Karnataka
	Latitudes	17°11 '03.2"N to 17°12'55.0"N
	Longitudes	77°12'14.2"E to 77°15'55.8"E
	SoiTopo sheet No.	E43R3, E43R4, E43R7 & E43 R8
Company Name	M/s. Dalmia Cement (Bharat) Limited	
Accredited Consultant Organisation and its certificate no.	JM EnviroNet Pvt Ltd and NABET/EIA/2023/RA0186	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	995.97 Ha

4. ToR Details

ToR Proposal No.	IA/KA/MIN/154994/2020
Online application date for Form-I	31.05.2020
Documents Submitted	Form-I & PFR
EAC meeting date	18 th EAC Meeting held during 22 nd - 24 th June 2020
ToR Letter No.	J-11015/26/2020-IA.II(M)
ToR grant Date	9 th July 2020
Production capacity	5.2 MTPA
Soil	0.062 MTPA
Waste	0.98 MTPA
Total Excavation	6.242 MTPA
Crusher	1500 TPH in 13 ha area outside the MLA for infrastructure
EIA/EMP uploaded on	27.03.2021

5. Lease Detail

Government of Karnataka granted Prospecting Licence	Area	1221.88 Ha
	Execution date	21.08.2007
	PL No.	3363
Prospecting operation, Commence date	01.03.2008	

Application for the Mining lease area and Date	995.97 ha	
Application for the Mining lease Date	09.05.2008	
Letter of Intent	Vide letter No.	736AML 08-09/158
	Dated	08.04.2009
Additional information	The Central Govt. exercise of the powers conferred under provisions of 6(1) (b) of MMDR act 1957 has accorded approval to increase the area limit to 25 sq.km. for mining lease for mineral limestone in the state of Karnataka. Govt. of Karnataka had granted mining lease vide Govt. order no. CI 98 CMC 2018, Bengaluru, dated 16.07.2019 over an area of 995.97 ha in favor of M/s. Dalmia Cement (Bharat) Limited.	

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	vide Letter No.	279/1107/2019/BNG/144
	Dated	23.01.2020
Mining Parameters	Quantitative Description	
Bench Height	9 m (maximum)	
Bench Width	14 m	
Method of Mining	Opencast mechanized method utilizing Heavy Earth Moving Machinery (HEMM)	
Individual bench slope	80°	
Overall pit slope	33°	
Drilling/Blasting	Yes	
RoM output size	50-75 mm	
Dumpers capacity	40 tonnes	

7. Land Area Breakup

Private land	984.82 ha
Government land	11.15 ha
Total Mining lease area (MLA)	995.97 ha
Private land for crusher, workshop & other infrastructure outside the MLA	13 ha

Additional information	<p>The Project Proponent submitted that the total ML Area is 995.97 ha falls in 5 revenue Villages (Beeranahalli, Arebammanahalli, Taranahalli, Konkanhalli and Shettihuda (Sedam)).</p> <p>The project proponent submitted that as per khasra details, there are 390 project affected families (whose land to be purchased). There is no house within mining lease area, only one structure MehboobSubhaniDargah is present within lease boundary, it will not be disturbed and it may be relocated in future after receiving approval from the concerned family if mutually agreed. However, sufficient safety barrier and approach road is currently proposed. Estimated Budget for the Resettlement & Rehabilitation is Rs. 242.50 crore.</p>
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8. Nearest village / town/ highway/railway station / water bodies

Particulars	Villages	Directions
Nearest villages	Shettihuda (Sedam)	SSE Direction
	Arebammanhalli	North Direction
Nearest town	Sedam	~1.0 km in SE direction
Nearest highways	SH-10	~0.2 km in South direction
	SH-15	~2.0 km in ESE direction
	SH-126	~8.5 km in West direction
	SH-122	~7.6 km in ESE direction
Nearest railway station	Sedam Railway Station	~3.0 km in ESE direction
Nearest water bodies	Kagina River	~0.3 km in North direction
	KamalavatiNadi	~1.0 km in NE direction
	Kona Halla	~1.5 km in NNW direction
	Benithora River	~4.0 km in West direction

9. Water requirement

Total water requirement	78 KLD	Fresh water	70 KLD
		Treated water	8 KLD
Source	Interlinked cement plant		
Permission	The interlinked cement plant which in turn has obtained permission of 3,148 KLD water withdrawal from Kagina River vide letter dated 26.07.2014 from Govt. of Karnataka. Application for renewal of the same has been submitted to Principal Secretary, Water Resource Dept. Bangalore, dated 03.09.2020.		

10. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Remarks	
Forest Land	No	Certificate from

National park	No	PCCF vide letter No. PCCF/WL/D/CR-88/2020-21 dated 25.03.2021
Wildlife Sanctuary & Forest	No	

Schedule-1 species		
Schedule-I species	No	Certificate along with authenticated list of flora & fauna and authenticated location map obtained from Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Karnataka vide letter No. PCCF/WL/D/CR-88/2020-21 dated 25.03.2021

11. Green belt/plantationdetail

Proposed area for green belt/plantation	198.52 Ha (2000 trees/Ha)
Budget for green plant& plantation till the end of life of mine.	Rs. 7.94 Crore
Budget for nursery	Rs. 25 lakhs

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	11 Ha
50 m safety zone of nallah, roads, electric lines	76.5 Ha
500 m safety zones of nearest habitation villages	111.02 Ha

12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of Base Line Data Collection	December 2019 to February 2020
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter

Details of the same was presented and PP submitted that these details are mentioned in chapter 3 of EIA/EMP Report.

13. Public Hearing (PH) Details

Application for PH	19.12.2020
Date of PH	02.03.2021
Venue	At project site adjacent to SH-10 between Shetthihuda (Sedam) to Arebammenahalli Road, Sedam Taluk, Kalaburagi District
Chaired by	Smt. V. V. Jyothsna, I.A.S Deputy Commissioner, Kalaburagi District; Dr. Akash Shankar, I.A.S, Assistant

	Commissioner, Sedam, Kalaburagi District Shri C.N. Manjappa, Environmental Officer, Regional Office, KSPCB, Kalaburagi, Karnataka
Main issues raised during PH	Employment Control of Pollution Land Compensation Drinking Water Facilities Health facility
Budget proposed for addressing issues raised during PH	Rs. 5.5 crore

14. Court case details

Court Case	No
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15. The Project Proponent submitted an affidavit to MoEF&CC that the mining would be done strictly in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores.

16. Details of the EMP and Project Cost:

Activities	Capital Cost (Rs. In Lakhs)	Recurring (Rs. In Lakhs)
Air Quality monitoring and Protection	1009	9.2
Water Quality monitoring and Preservation	38	5.5
Noise and Vibration monitoring and Preservation	3	0.5
Occupational Health & Safety	10	3
Action plan for addressing the issues raised during the public hearing with budgetary provision	550	
Miscellaneous		
Digital mapping of the entire lease area once in five year	1.50 Lakh once in 5 years	
Other if any	3	1
Total cost of EMP	1614.58	19.2

Particulars`	Budget (Rs. In Crore)
Capital Cost for Environment Protection	10.64
Budget for addressing the Public Hearing issues	5.5
Total Cost for EMP	16.14
Recurring Cost for EMP	0.192
Project Cost	367 (Including land cost)
Employment	100 persons

17. **Observation of the Committee:** The Committee observed that there is a conveyer belt of 3.7 km long connecting the mine site and cement plant and will be crossing over SH-15. NOC from State authorities is under submission. A nallah is crossing the lease area for which PP informed that mining will be done in the Eastern part of the nallah. No mining will be done in the Western part of the nallah.

18. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for Environmental Clearance Sedam Limestone Mine (ML Area: 995.97 ha) with Proposed Limestone Production Capacity 5.2 Million TPA, Soil 0.062 Million TPA and Waste 0.98 Million TPA (Total Excavation 6.242 Million TPA) along with 1500 TPH Crusher (13 ha area outside the ML area for infrastructure) at Villages: Beeranahalli, Arebammanahalli, Taranahalli, Konkanhalli and Shettihuda (Sedam), Taluka: Sedam, District: Kalaburagi, Karnataka of M/s. Dalmia Cement (Bharat) Limited along with the following specific conditions:

- 1) PP has committed for the greenbelt in 11 ha and the plantation in 187.52 ha. So, the plantation must be done with 3m saplings and the greenbelt in first two years and rest of the area as per the approved mining plan.
- 2) Since prime agricultural land is being converted into water reservoir covering an area of 750 ha with an average depth of 20 m. Following two conditions will apply:
 - 2.1) In the 6 m bench, plantation should be carried out within 2 years as per the prescribed method to reduce the area covered by the water body.
 - 2.2) The water body so created during the operational phase of mine as well after the closure of mine will be used for agricultural purposes by providing irrigation quality water to nearby farmers so that it will enable them to grow two crops in a year. Necessary budget provision made by the PP initially for 50 years (operation phase) which can also sustain further mine closure either using manpower or handing it over to Government.
- 3) Air quality monitoring around the vicinity of crusher and mining area may be facilitated and in a sustainable manner by providing necessary budget and data should be reported to Pollution Control Board and the Ministry in every 6 months.

- 4) Health monitoring in the vicinity of the area related to respiratory disease be provided annually.

2.4 Proposal for Environmental Clearance of Persoda Limestone Mine with total excavation of 2.9 MTPA (2.0 MTPA of limestone (ROM), waste & dolomite of 0.815 MTPA and topsoil of 0.085 MTPA) in the mine lease area of 756.15 ha located at Villages Persoda, KothodaKhurd, KothodaBuzurg and Govindpur, Tehsil Korpana, District Chandrapur, Maharashtra by M/s RCCPL Private Limited. [Proposal no: IA/MH/MIN/89273/2018; File No. J110105/22/2019-IA.II(M)] - Environmental Clearance regarding.

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Proposal for Environmental Clearance of Persoda Limestone Mine with total excavation of 2.9 MTPA (2.0 MTPA of limestone (ROM), waste & dolomite of 0.815 MTPA and topsoil of 0.085 MTPA) in the mine lease area of 756.15 ha	
Location	Village	Persoda, KothodaKhurd, KothodaBuzurg and Govindpur
	Tehsil/Taluka	Korpana
	District	Chandrapur
	State / UT	Maharashtra
	Latitudes	19°43'54.10" N to 19°46'09.78" N
	Longitudes	78°50'41.18" E to 78°52'23.39" E
	SolTopo sheet No.	E 55 A 13, E 44A14 (56 I/13 & 56 I/14)
Company Name	M/s RCCPL Private Limited	
Accredited Consultant Organisation and its certificate no.	Vimta labs Limited and NABET/EIA/1720/SA 088	
KML file	Submitted	
Seismic zone as per IS-1893	II	

3. Category details:

Category of the project	A
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Provisions	EIA Notification dated 14th September, 2006
Mining lease Area (MLA) (in ha.)	756.15 Ha
General Condition	Interstate Boundary of Maharashtra - Telangana

4. ToR Details

ToR Proposal No.	IA/MH/MIN/89273/2018
Online application date for Form-I	22.01.2019
Documents Submitted	Form-I & PFR
EAC meeting date	2 nd EAC Meeting held during 20 th -21 st February 2019
ToR Letter No.	J- 11015/22/2019-IA. II (M)
ToR grant Date	9 th April 2019
Limestone	2 MTPA
Soil	0.085 MTPA
Waste	0.815 MTPA
Total Excavation	2.9 MTPA

5. Lease Detail

Government of Maharashtra issued Lol	Area	756.14 Ha
	vide letter No.	MMN – 1010/ CR.3338/ ind-9
	Dated	14/01/2021
Name changed from Reliance Cementation Private Limited to Reliance Cement Company Private Limited dated	08.08.2011	
Again, name changed from Reliance Cement Company Private Limited to RCCPL Private Limited dated	01.08.2018	
Lease grant date	14/01/2021	
Lease execution and registration date	11/02/2021 and 12/02/2021	
Additional information	The PP also submitted a letter No. MMN1010/F.No./3338/Industries-9 dated 4.01.2019 issued by Industry, Energy & Labour Dept. Govt. of Maharashtra addressed to Director, Directorate of Geology & Mining wherein it has mentioned that “as per section 62 of Mineral Concession Rules, 1960, with respect to their 756.14 Ha Prospecting License/Mining lease in village Persoda, Kothoda, Buzurg, and	

	Govindpur, Tehsil: Korpana, District: Chandrapur; company has informed regarding change of name of company within stipulated time. In case prospecting license/mining lease of the company, government hereby approves to take note of change of name of the company as M/s RCCPL Pvt Limited instead of M/s Reliance Cementation Private Limited. Henceforth, correspondence with the company is to be made in the name of M/s RCCPL Pvt Limited.”
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6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	vide Letter No.	CND/LST/MPLN-1178/NGP-2019
	Dated	10.10.2019
Mining Parameters	Quantitative Description	
Bench Height	6-8 m	
Bench Width	25 m	
Method of Mining	Opencast mechanized method utilizing Heavy Earth Moving Machinery (HEMM)	
Individual bench slope	80°	
Overall pit slope	45°	
Drilling/Blasting	drilling, blasting,	
RoM output size	-75 mm	

7. Land Area Breakup

Private land	673.81 Ha
Government land	82.33 ha
Total Mining lease area (MLA)	756.14 ha

R & R details

Particulars	Activity
Project affected village	Persoda, Govindpur, KothodaKhurd and KothodaBuzurg
Total Land affected families as per survey	584
Budget for R & R	Rs 15946.8 Lakhs

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

Particulars	Villages	Directions
Nearest town	Korpana	~13.0 km in E direction

Nearest highways	SH-265 (Adilabad – Korpana Road) 0.25 km, S SH-234 (4.4 km, N) SH-236 (10.9 km, WNW)	
Nearest railway station	Lingti	~10.6 km in WNW direction
Water Bodies & Streams	Penganga River – Adjacent, N	
	Mukutban pond ~ 4.5 km, N	
	Vaidarbhariver ~ 9.9 km, NE	

9. Water requirement

Total water requirement	234 KLD	Fresh water	-
		Treated water	-
Source	Ground water		
Permission	NOC from CGWA is under progress		
Depth of the water in MLA	28.00 m to 90.00 m bgl		
Water Distribution	Dust suppression is 175 KLD,		
	Domestic 5 KLD,		
	Green belt 50 KLD,		
	Workshop 4 KLD		

10. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Zone	Area/Environmental Sensitivity	Remarks
Forest Land	No	Letter from PCCF of the Deputy Conservator of Forests, Central Chanda Forest Division vide letter dated 26.12.2019
National Park and Biosphere Reserves	No	
Wildlife corridors, Wildlife Sanctuary, Ramsar Site, Tiger/Elephant Reserves	No	
Reserve Forest nearest to the MLA	Mangalhira RF (0.8 km, SW),	
	PF near Yedsi (0.8 km, E),	
	RF near Pimprod (1.7 km, NW),	
	Pardi RF (4.4 km, E),	
	Akapur RF (4.8 km, NE),	
	Ruikot RF (4.6 km, N),	
	Manikgarh RF (6.2 km, SSE),	
	Satnala RF (6.3 km, S),	
	Chilai RF (6.6 km, NE),	
	Ardwan RF(7.8 km, NW),	
	Kannargoan RF(8.8 km, E)	
Water bodiesnearest to the MLA	Sekarpur RF (9.5 km, NW)	
	Penganga River (Adjacent, N),	
	Mukutban pond (4.5 km, N),	
	Vaidarbha river (9.9 km, NE)	

Schedule-1 species		
Schedule-I species	No	PP submitted that the authenticated List of Flora and Fauna from Dy. Conservation of Forest, Chandrapur vide letter dated 22.08.2019.

11. Green belt/plantationdetail

Proposed area for green belt/plantation	92.45 Ha(92,450 Saplings)
Proposed Backfilled area for green belt/plantation in the 11 th to 30 th year	164.77 Ha (1,64,770 no.s)
Budget for green plant& plantation till the end of life of mine.	Rs. 75 Lakhs
Recurring cost for greenbelt/plantation	Rs. 1.75 lakh/annum

Particulars for Green belt/plantation	Area covered (in Ha)
50 m barrier zone as well as entire 7.5 m of barrier zone will be converted by plantation	126.33 Ha

12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of Base Line Data Collection	December 2018 to February 2019
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter

Details of the same was presented and PP submitted that these details are mentioned in chapter 3 of EIA/EMP Report.

13. Public Hearing (PH) Details

Advertisements published for PH	Marathi newspaper namely "Loksatta" and English newspaper "The Hitvada"
Advertisements date	18.03.2020
Date of PH	22.09.2020
Venue	online & offline at site near Persoda Gram Panchayat office on24.04.2020
Chaired by	Shri. Manohar Gavhad, Additional District Magistrate, Chandrapur

	Shri Ashok M Kare, Regional Officer, Maharashtra State Pollution Control Board, Chandrapur
Main issues raised during PH	land, employability, CSR Pollution
Budget proposed for addressing issues raised during PH	Project Proponent informed that cost of land will be based on mutual negotiation. The priority for employment will be given to land owners based on eligibility and availability criteria.

14. Court case details

Court Case	No
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15. Details of Undertaking and affidavit:

PP submitted an undertaking by the way of an affidavit bearing INDL02339997936052Q dated 13.12.2018 to comply all statutory requirement and common cause judgment dated 02.08.2017. Consultant submitted an undertaking that "M/s Vimta Labs Limited has complied with all the prescribed Terms of Reference (TOR) issued by Ministry of Environment, Forests & Climate Change (MoEF&CC) vide Letter no. J-11055/22/2019-IA.II (M) dated 09.04.2019 stipulated for the preparation of ELA Report for the proposed Persoda Limestone mine with total excavation of 2.9 MTPA.

16. Details of the EMP:

Activities	Capital Cost (Rs. In Crores)	Recurring (Rs. In Crores)
Air Environment	3.480	1.224
Water Environment	6.522	0.405
Noise & Ground Vibration	0.110	0.010
Soil Environment	0.670	0.049
Green Belt/Plantation Development	7.267	0.932
Others	0.936	0
Total cost of EMP	18.985	2.620

17. Details of project cost and employment:

Particulars`	Budget (Rs. In Crore)
Project Cost	352
Employment	105 persons

18. ADS details

Sr. No	ADS Sought	Response
1	Detailed Hydrogeology study needs to be carried out by PP by NABET Accredited under Ground Water Consultant Organization (GWCO) along with impact of mine on surface water bodies and impact of surface water body on mine	Detailed hydrogeology study carried out by NABET Accredited under Ground Water Consultant Organization (GWCO) including impact of mine on surface water bodies and impact of surface water body on mine has been submitted as an Annexure with the ADS reply.
2	PP needs to submit the design of the embankment and its efficacy and details of the flow simulation model carried out.	The design of the embankment and its efficacy and details of the flow simulation model was carried out by Visvesvaraya National Institute of Technology (VNIT), Nagpur, Maharashtra. The report has been submitted as an Annexure with the ADS reply.
3	PP should obtain the NOC from CGWA for ground water withdrawal.	Process of obtaining NOC from CGWA is on progress. Copy of submission of application and recommendation by CGWB Nagpur Regional Office are submitted as an Annexure with the ADS reply.
4	PP needs to submit the incremental noise level and the impact of noise and ground vibration on habitation and surface water bodies.	The report on incremental noise level and the impact of noise and ground vibration on habitation and surface water bodies are submitted as an annexure with the ADS reply.
5	PP needs to submit the periodic monitoring plan to sustain the mine with environment safeguards.	The periodic monitoring plan as per CPCB regulations to sustain the mine with environment safeguards have been submitted as an Annexure with the ADS reply.
6	PP needs to clearly bring out the use of explosives, quantity of explosives to be used, storage of explosives at site and necessary approvals to be obtained from Competent Authority.	Use of explosives, quantity of explosives to be used, storage of explosives at site and necessary approvals to be obtained from competent authority have been submitted as an annexure with the ADS reply.
7	PP should also submit the letter from the Principal Chief Conservator of Forests, Telangana for no involvement of	Letter from PCCF and Chief Wildlife Warden, Hyderabad along with authenticated maps have been submitted as an annexure with the

	forest land in the mine lease area and national parks, sanctuaries, Biosphere Reserves, Wildlife corridors, Ramsar Site Tiger/Elephant Reserves within 10 km radius.	ADS reply.
8	PP informed the Committee that the land affected families are 584 and they are going to be affected through land acquisition only and not going to be disturbed. Hence, PP should submit the undertaking in this regard.	The copy of undertaking regarding no displacement of 584 land affected families has been submitted as an annexure with the ADS reply.
9	PP should submit the document showing the validity of the lease	The validity of Lol has been extended upto 24th July 2021. Lol extension letter no. MMN-1010/C.R.3338/Ind-9 dated 02nd December 2020 has been submitted as an annexure with the ADS reply.
10	PP accorded TOR for mining of minerals only whereas in EC proposal it is observed that the crusher is proposed to install within the mining lease area. A proper clarification with detailed risk assessment on the local environment be submitted	Proposal for installing crusher (700 TPH) within mining lease area was included in Form-1, pre-feasibility report, brief summary of the project etc. submitted during ToR application. The same has also been included in EC proposal and risk assessment and mitigative measures due to installation of crusher is included in EIA report. The impact due to emission from crusher operation was captured while executing the modelling predictions of mining operations. The copy of the same has been submitted as an annexure with the ADS reply.
11	PP should submit the copy of the Attendance Sheet of the participants participated in the Public Hearing.	Attendance Sheet of the participants of public hearing has been submitted as an annexure with the ADS reply.

12	PP should clarify the Distance of Public Hearing Venue from the Proposed Project.	Public hearing was conducted at Niyojan Bhavan, Collector Office, Chandrapur, which is 87 Km. by road from project site. Detailed note has been submitted as an annexure with the ADS reply.
13	The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020.	Time-bound action plan for undertaking the activities committed during public consultation will be submitted to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance.
14	PP should submit the breakup of the budget of the Environment Management Plan.	The breakup of the budget of the environment management plan has been submitted as an annexure with the ADS reply.

19. **Observation of the Committee:** During the presentation PP submitted that at the end of life of the mine, 126.33 ha area will be converted by plantation with 7.5 m of barrier zone. The Committee directed that this plantation should be mandatorily done. The Committee observed that as a part of EMP cost, PP has included the cost of air quality monitoring which should not be done. Therefore, EMP budget has to be revised. The Committee also observed that R & R cost was not properly addressed.

20. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for Environmental Clearance of Persoda Limestone Mine with total excavation of 2.9 MTPA (2.0 MTPA of limestone (ROM), waste & dolomite of 0.815 MTPA and topsoil of 0.085 MTPA) in the mine lease area of 756.15 ha located at Villages Persoda, KothodaKhurd, KothodaBuzurg and Govindpur, Tehsil Korpana, District Chandrapur, Maharashtra by M/s RCCPL Private Limited along with following specific conditions:

- 1) PP shall construct garland drains with protective bunds around area to be excavated, to avoid entrance of surface run off into pit and mixing with ground water. Furthermore, PP shall make garland drains/storm water drains along with

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siltation/settling tanks at regular interval around the mine pits that will be active through proper plan which follow the natural slope of surface run off and/or to avoid its mixing with groundwater.

- 2) PP shall comply all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- 3) Dust control measures need to be installed and strengthened during initial road transportation to eliminate impact on air quality.
- 4) PP shall make progressive greenbelt and plantation like bench plantation and also do plantation around mineral storage, top soil stack, road, magazine and other places as committed.
- 5) PP shall establish the Environment Management Cell (EMC) and engage sufficient number of qualified staff for the implementation of Environmental Clearance Conditions and other statutory requirements.
- 6) Adequate Safety Measures like Proper Safety Bunds and Fencing shall be provided by the PP around the water bodies to ensure Safety.

DAY 3 - 11.06.2021

3.1 Proposal for Environmental Clearance for expansion of Karunda Limestone Mine (M.L. No. 03/2003, Area 240.86 ha.) from 2.0 Million TPA Limestone to total excavation of 3.8 Million TPA (Cement grade Limestone: 3.448 Million TPA, Subgrade Limestone: 0.152 Million TPA, Interstitial Clay/ Screen rejects/ Waste: 0.189 Million TPA and Top Soil: 0.011 Million TPA) and Limestone Crusher with Screening (500 TPH Limestone and 50 TPH Screening Clay) situated at Village – Karunda, Tehsil – Nimbahera, District – Chittorgarh, Rajasthan by M/s J.K. Cement Limited Kanpur – [Proposal no: IA/RJ/MIN/210770/2019; File No. J-11015/36/2019-IA.II(M)] - Environmental Clearance

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Proposal for Environmental Clearance for expansion of Karunda Limestone Mine (M.L. No. 03/2003, Area 240.86 ha.) from 2.0 Million TPA Limestone to total excavation of 3.8 Million TPA (Cement grade Limestone: 3.448 Million TPA, Subgrade Limestone: 0.152 Million TPA, Interstitial Clay/ Screen rejects/ Waste: 0.189 Million TPA and Top Soil: 0.011 Million TPA) and Limestone Crusher with Screening (500 TPH Limestone and 50 TPH Screening Clay)	
Location	Village	Karunda
	Tehsil/Taluka	Nimbahera
	District	Chittorgarh
	State / UT	Rajasthan
	Latitudes	24°41'23.1" to 24°42'27.8" N
	Longitudes	74°36'25.4" to 74°37'212.7" E
	Sol Topo sheet No.	45L/10
Company Name	M/s J.K. Cement Limited Kanpur	
Accredited Consultant Organisation and its certificate no.	Enkay Enviro Services Pvt. Ltd., Jaipur and NABET/EIA/2023/RA/0183	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	240.86 Ha
Additional information	Beneficiation is not involved. Only crushing and de-sizing is involved and crusher is within the lease area.

4. ToR Details

ToR Proposal No.	IA/RJ/MIN/98520/2019
Online application date for Form-I	15.04.2019
EAC meeting date	September 23-25, 2020
ToR Letter No.	J- 11015/36/2019-IA.II (M)
ToR grant Date	15.10.2020
Mineral production capacity	Limestone from 2.0 Million TPA to cement grade Limestone: 3.448 Million TPA and Subgrade

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	Limestone: 0.152 Million TPA
Soil	0.011 Million TPA
Waste	Interstitial Clay/ Screen rejects/ Waste: 0.189 Million TPA
Total Excavation	3.8 Million TPA
Crusher	Crusher with Screening (500 TPH Limestone and 50 TPH Screening Clay)
EIA/EMP uploaded on	30.04.2021

5. Lease Detail

Government of Rajasthan granted mine lease	Area	336.70 ha
	Letter no.	P5 (32) KHAN/ Group – 03/ 80 in favor of J. K. Cement Works
	Date	25.07.1984 for 20 years
Registration date	13.12.1984	
Mine lease validity	12.12.2034	
Additional information	First renewal was granted by state Government vide letter no. P-16(19)Khan/Group-2/05, date-18.11.2010 for the period of 20 years (13.12.2004 to 12.12.2024). As per provision of MMDR Amendment Act' 2015, the validity of lease period has been extended upto 12.12.2034 (13.12.1984-12.12.2034) vide State Government order no.AME/ Nimba/ CC – 1/ MI 3/ 2003/ 2046 dated 27.02.2015.	

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter no.	584(4) (3) (1761)/ 2018 – RCOM – AJM/ 1660
	Date	28.11.2018
Additional information	Review of Mining Plan with Progressive Mine Closure Plan has been approved by the Regional Controller of Mines, IBM, Ajmer for the period from 2019-20 to 2023-24	
Mining Parameters	Quantitative Description	
Bench Height	8.5 ± 0.5m	
Bench Width	20-25 m	

Method of Mining	Opencast fully-mechanized method with controlled blasting, wet drilling, excavation, loading & unloading, transportation and crushing.
Overall pit slope	35°
Drilling/Blasting	Yes
Details of transportation	Dumpers and OLBC
Dumper capacity	40 tonnes

7. Land Area Breakup

Land details	Govt. Waste Land - 50.74Ha. Grazing Land - 59.80Ha. Private Land - 130.32Ha.
Total Mining lease area (MLA)	240.86 Ha

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

Particular	Distance (km)	Direction
	From Lease Boundary	
Town		
Nearest Town- Nimbahera	8.95	SE
Schools		
Govt. School - Karunda	405 m	West Boundary
Govt. Sr. Sec. School - Phalwa	3.90 Km	SW
Govt. Sr. Sec. School - Lasrawan	5.08 Km	SW
Govt. Sr. Sec. School - Mangrol	4.46 km	E
Adityapuram Birla Public School	7.75 Km	NNW
Highway		
NH-79	2.45	E
Water Bodies		
Murlia Talab	1.64	E
SatkhandaNadi	3.0	NE
Gangariya Talab	8.60	W
Gambhiri Reservoir	9.34	ESE

9. Water requirement

Total water requirement	125 KLD	Existing	92 KLD
		Additional	33 KLD
Source	The domestic water demand: Ground water and balance water demand: stored mine pit		
Additional information	1 KLD water will be used for domestic purpose, 54 KLD for dust suppression, 50 KLD for plantation and 20 KLD for washing of HEMM.		

10. Reserved forests and Protected Forests in the study area

S. No.	Particulars	Distance (Km)	Direction
		(From Lease Boundary)	
1.	Alsigarh P.F.	3.90	W
2.	Kalkaliya R.F	4.10	NW
3.	Bansaria Block P.F.	4.78	W
4.	Kannauj Block P.F.	5.18	WNW
5.	Machhliya R.F.	5.88	NW
6.	Kotmagra R.F.	6.75	SW
7.	MabalBodiya R.F	8.75	SW
8.	Dhamariya R.F.	9.0	W
9.	Dhamariya R.F	9.0	W
10.	MujalAronda P.F	9.18	W
11.	Bhamariya Khalasa Block-PF	9.71	WNW

Availability of Schedule-I species in study area – Six Schedule -1 species found which are *Pavocristatus* (Indian Peafowl), *Pantherapadusfusca* (Indian Leopard), *Prionailurusrubiginosus* (Rusty-Spotted Cat), *Canis lupus pallipes* (Indian Wolf), *Varanusbengalensis* (Indian Monitor Lizard) & *Gyps indicus/Gyps bengalensis* (Indian Vulture).

Authenticated list of flora/fauna details

Schedule-1 species		
Schedule-I species	Yes	Combined Wildlife Conservation Plan has been approved by the Principal Conservator of Forest, Udaipur and recommendations forwarded to Additional Chief Conservator of Forest Jaipur for formal sanction vide letter no. f 5()forestconservation/ Principal conservator of Forest/2020-21/ 5002 dated 24.09.2020 and same proposal has been forwarded to APCCF, Jaipur on 15.10.2020 by DYCF, Jaipur. A budget of 285.30 Lakhs has been earmarked for the same.

11. Green belt/plantation details

Existing status	24.50 ha area with 62,350 plants (inside and outside the lease area)
At conceptual stage	54.87 Ha with the total 1,38,275 plants.
Additional information	Total 7.5 mtr safety zone area is 4.90 ha out of which 0.898 ha area has been planted and 2.18 ha will be completed by 31st March 2024

12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of Base Line Data Collection	March-May 2018

Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer season
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Details of the same were presented and PP submitted that these details are mentioned in chapter 3 of EIA/EMP Report.

13. Public Hearing (PH) Details

Advertisement for PH	Rajasthan Patrika on 02.02.2021 & Dainik Bhaskar on 01.02.2021
Date of PH	09.03.2021 at 02.00 pm
Venue	near the project site, Phalwa Road, Nimbahera, District-Chittorgarh, Rajasthan
Chaired by	Mr. Ratan Kumar, Additional District Collector, Chittorgarh Mr. Sharad Saxena, Regional Officer, Rajasthan State Pollution Control Board, Chittorgarh
Main issues raised during PH	Community Infrastructure Development Drinking Water Education Employment Environment
Budget proposed for addressing issues raised during PH	Rs. 160 Lakhs

14. Court case details

Court Case	No
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15. Previous EC compliance and production details:

Certified EC compliance report	Obtained from Regional Office of MoEF&CC, Lucknow vide letter no. IV/ENV/R/Mine-193/292/04/1126 dated 16.12.2020.
Certified production certificate	Issued by Mining Dept. vide letter no. Ame/ Nbh/ Static/ 2020- 2021/01, dated 17.06.2020

16. Details of the EMP:

Particulars	Capital Cost (Rs. In Lacs)	Recurring Cost/ Annum (Rs. In Lacs)
A. Pollution Control Measures	85	11

B. Occupational Health and Safety	85	17.48
C. Green Belt Development Plan	220	13
D. Public Hearing Action Plan (Socio-Economic Development Activities)	160	0
E. Wildlife Conservation Plan (Common for two cement plant and five limestone mine)	385.35 Lacs	0
Grand Total	465.0	30.48

17. Details of project cost and employment:

Particulars	Details
Project Cost	49.2925 Crore
Employment	84 persons

18. Observation of the Committee: The Committee observed no seriousness towards plantation in spite of submitting the undertaking by PP. 138 ha of land has to be planted but present scenario of plantation is not satisfactory. The Committee will visit the site to verify the status of plantation and other aspects of EC recommendations. The Committee also observed that study on groundwater impact due to withdrawal of groundwater by the PP from the nearby villages has not been done. No effort being shown towards restoration and preservation of land as to what is being done for the after loss of agricultural land. No quantification has been done for impact of water recharge. Impacts of vehicular emission have not been provided despite of using the surface transport. Efficacy of EMP is not satisfactory and impacts of dust control, noise control etc. have not been defined properly. The Committee also noticed that the presentation was not clear and schematic.

19. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, the Committee **deferred** the proposal due to want of following information:

- 1) Through KML file, adequate plantation was not observed and no efforts have been made for last 30 years. It is suggested to complete the plantation as committed.
- 2) The mine lease has already worked out. A budget and the plan to be submitted to the Ministry to restore the ecosystem in the mining area. Plan for possibility of restoring the agricultural land must also be incorporated.
- 3) Impact of recharge of ground water on the hydrology and the water balance at the pit though it and its utilization for community giving a total water balance

such as use at the plant, use at the mine and use in the villages be given in a tabular form.

- 4) The Committee feels that there is adequate pit water available; the justification for drawl of additional ground water is required.
- 5) Noise modeling studies by taking actual data during blasting be generated, actual data monitored at the receptor during blasting be collected for calibration of model.
- 6) Impacts on air quality due to vehicular emission as the material are being transported actually to be monitored and modeled using calibrated data.
- 7) A commitment to put a conveyer belt by August and another conveyer belt within a year should be given in writing. PP needs to submit the efforts done for decreasing the impacts of vibration and transportation after installation of first conveyer belt as early as possible.
- 8) Conservation plan appears to be common for 5 mines and 2 plants of M/s J.K. Cement Limited. Cost should be separated and included in the budget for each mine and the plant.
- 9) PP needs to submit the revised EMP cost by removing monitoring cost from the budget and include plantation to be completed in 3 years in the peripheral and non-mineral zone, plantation outside the lease, avenue plantation on the transport road and the no. of plants to be planted year wise with the budget.
- 10) Cost of equipment for the dust control, noise control and vibration control to be indicated separately in the EMP cost. The budget and plan for creating water harvesting structures in the villages nearby by also to be submitted.
- 11) Cost for EMP to address the public hearing issues should have only capital investment and also the recurring cost if any be submitted in a tabular form.

3.2 Proposal for Terms of Reference under clause 7(ii) for EC Revalidation under the provision of EIA Notification, 2006 for Dholipatti Limestone Mine with consented ROM Production of 1.40 MTPA in an area of 138.78.5 Ha located in Villages Dholipatti, Palayam and Karikkali, Vedasandur Taluk, Dindigul District, Tamil Nadu by M/s Chettinad Cement Corporation Private Limited. – [Proposal no: IA/TN/MIN/81764/2018; File No. J-11015/18/2019-IA-II(M)] - ToR

EAC Meeting Details:

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Proposal for Terms of Reference under clause 7(ii) for EC Revalidation under the provision of EIA Notification, 2006 for Dholipatti Limestone Mine with consented ROM Production of 1.40 MTPA in an area of 138.78.5 Ha	
Location	Village	Dholipatti, Palayam and Karikkali
	Tehsil/Taluka	Vedasandur
	District	Dindigul
	State / UT	Tamil Nadu
	Latitudes	10°42"22.1" to 10°43"52.4" N
	Longitudes	78°06"16.5" to 78°07"25.6" E
	Sol Topo sheet No.	58J/2
Company Name	M/s Chettinad Cement Corporation Private Limited	
Accredited Consultant Organisation and its certificate no.	JM EnviroNet Pvt. Ltd. and NABET/EIA/2023/RA0186	
KML file	Submitted	
Seismic zone	III	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	138.78.5 Ha

Essential Details were sought by MoEFCC on and stating that PP also submitted that this is an existing limestone mining project. The environment Clearance was obtained for existing Limestone production capacity i.e. 1.4 million TPA production capacity from MoEFCC vide letter no. J-11015/27/2000-IA.II(M) dated 19.03.2001.

4. ToR Details

ToR Proposal No.	IA/TN/MIN/81764/2018
Online application date for Form-I	07.10.2018
EDS date/s	02.11.2018 (Reply: 08.01.2019) and 01.02.2019

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

	(Reply: 27.04.2021)
EDS details	Window for applying under S.O. 1530(E) dated 06.04.2018 had already been expired on 5.10.2018. PP applied on 07.10.2018. Hence project may not be considered. PP replied that the proposal was not submitted within the given time period due to server error.
Previous EC details	Obtained for existing Limestone production capacity i.e. 1.4 million TPA production capacity from MoEFCC vide letter no. J-11015/27/2000-IA.II(M) dated 19.03.2001
Production capacity	ROM Production of 1.40 MTPA

5. Lease Detail

Government of Tamil Nadu granted mine lease	Area	138.785 Ha
	Letter no.	G.O (Ms). No. 23 Industries (D2) Dept.
	Date	09.01.1989 for a period of 20 years
Mine lease validity	28.02.2039	
Additional information	The Lease was valid from 01.03.1989 to 28.02.2009. The Company had submitted the First Renewal Application on 07.01.2008 and the Mine was in deemed extension till 30.01.2018. As per the Mines and Minerals (Development and Regulation) (MMDR) Amendment Act 2015, the period of the lease will be valid upto 28.02.2039 i.e. for a period of 50 years from the date of Initial Grant and the new GO (Ms) No. 39 dated 09.04.2018 has been granted to CCCPL.	

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter no.	TN/DGL/LST/ROMP/1525.MDS
	Date	13.11.2018
Additional information	Review of Mining Plan & PMCP has been approved by IBM Chennai.	
Mining Parameters	Quantitative Description	
Bench Height	10 m	

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Bench Width	10 m
Method of Mining	Conventional opencast mechanized mining with drilling and blasting and by deploying, hydraulic excavator and Taurus dumper combination
Individual bench slope	80°
Overall pit slope	45°
Drilling/Blasting	Yes
Details of transportation	Excavated limestone is being/will be transported to the Dholipatti Crusher by tippers. Further, crushed limestone will be transported to the existing cement plant by covered conveyor belt located at a distance of ~1.8 km in W direction.

7. Land Area Breakup

Land details	Patta land: 117.69 ha an Govt. Poramboke land: 21.09.5 ha.
Total Mining lease area (MLA)	138.78.5 Ha

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

Particular	Distance (km)	Direction
	From Lease Boundary	
Town		
Nearest Town- Nimbahera	8.95	SE
Schools		
Govt. School - Karunda	405 m	West Boundary
Govt. Sr. Sec. School - Phalwa	3.90 Km	SW
Govt. Sr. Sec. School - Lasrawan	5.08 Km	SW
Govt. Sr. Sec. School - Mangrol	4.46 km	E
Adityapuram Birla Public School	7.75 Km	NNW
Highway		
NH-79	2.45	E
Water Bodies		
Murlia Talab	1.64	E
SatkhandaNadi	3.0	NE
Gangariya Talab	8.60	W
Gambhiri Reservoir	9.34	ESE

9. Water requirement

Total water requirement	20 KLD	Domestic	3 KLD
		Dust suppression	7 KLD
		Green belt/plantation	10 KLD

Source	Harvested rainwater stored in mine pits and drinking water requirement is met from the cement plant water treatment unit have been installed at plant
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10. The PP submitted that there is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger/Elephant Reserves and Migratory Routes for fauna etc, within 10 km radius of mining lease area. There is one Toppai swamimalai RF exist within study area which is about 6 km in SE direction from lease area. PP also submitted that no Schedule I species recorded in the study area within 10 km radius of the Mining Lease area. There is no National Park, Wild Life Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves, Protected Forests etc. within 10 km radius study area.

11. Green belt/plantation details

Plantation status	Total 65.81 Ha area will be converted into green belt/plantations in which 20.39 Ha area will be planted on waste dump, 35.42 ha area will be reclaimed by backfill plantation
Greenbelt status	10 ha area is covered under Green belt along the in boundary of the mines (7.5 meter mine periphery). At present total 10.0 Ha areas has been covered under greenbelt. The trees will be planted @ 1500 saplings per ha of land.

12. Public Hearing (PH) Details

Details	This is a proposal for Terms of Reference under clause 7(ii) and for EC Revalidation under the provision of EIA Notification, 2006. Previously, public hearing was held on 15.09.2000 under EIA Notification, 1994
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13. Court case details

Court Case	No
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14. Production details:

Certified production certificate	Year wise production details since 1993-94 to 2019-2020 has been authenticated by State Mines Department vide letter No 214/2021 (Mines) dated 31.05.2021.
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15. The project proponent submitted that an affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores before grant of ToR/EC has been submitted to MoEFCC.

16. Details of project cost and employment:

Particulars	Details
Project Cost	67.15 crores
Employment	37 persons

18. **Observation of the Committee:** The Committee observed that the proposal attracts violation of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors. The proposal cannot be considered under the provision of Notification S.O. 1530 (E) dated 6th April 2018 since PP did not apply within the time frame provided. The Committee also observed no plantation after examining the KML. EAC was not satisfied with the compliance of earlier EC vide letter no. J-11015/27/2000-IA.II(M) dated 19.03.2001.

19. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **returned the proposal in present form**. PP is required to apply afresh for obtaining Terms of Reference.

3.3: Proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) for expansion of Maliakhera Limestone Mine (ML No. 04/2003, Area- 315.409 Ha.) from 3.2 Million TPA (Limestone) to 6.3 Million TPA of Total Excavation (Limestone:- 5.6 Million TPA, Interburden (clay)/Screen rejects/Waste:- 0.245 Million TPA, Sub-grade Mineral (Mineral rejects):- 0.425 Million TPA and Top Soil:- 0.030 Million TPA) with No Change in existing crusher (1500 TPH) & OLBC located at Village - Maliakhera, Tehsil - Nimbahera, District - Chittorgarh (Rajasthan) by M/s J.K. Cement Limited Kanpur. [Proposal no: IA/RJ/MIN/210712/2019; File No. J-11015/42/2019-IA.II(M)] – Environmental Clearance

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

Name of the Project	Proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) for expansion of Maliakhera Limestone Mine (ML No. 04/2003, Area-315.409 Ha.) from 3.2 Million TPA (Limestone) to 6.3 Million TPA of Total Excavation (Limestone:- 5.6 Million TPA, Interburden (clay)/Screen rejects/Waste:- 0.245 Million TPA, Sub-grade Mineral (Mineral rejects):- 0.425 Million TPA and Top Soil:- 0.030 Million TPA) with No Change in existing crusher (1500 TPH) & OLBC	
Location	Village	Maliakhera
	Tehsil/Taluka	Nimbahera
	District	Chittorgarh
	State / UT	Rajasthan
	Latitudes	24°40'6.6" to 74°37'22.4" N
	Longitudes	24°41'04.5" to 74°35'55.6"E
	Soil Topo sheet No.	45 L/5, 45 L/6, 45 L/9, 45 L/10, 45 L/13, 45 L/14
Company Name	M/s J.K. Cement Limited Kanpur	
Accredited Consultant Organisation and its certificate no.	Enkay Enviro Services Pvt Ltd Jaipur and NABET/EIA/2023/RA/0183	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	315.409 Ha

4. ToR Details

ToR Proposal No.	IA/RJ/MIN/99837/2019
Online application date for Form-I	08 March 2019
Documents Submitted	Form-I & PFR
EAC meeting date	May, 29-30 2019; 26 th Oct., 2020 and 11 th Dec., 2020
ToR Letter No.	J-11015/42/2019-IA-II(M)
ToR grant Date	28.12.2020
Production capacity	5.6 Million TPA
Soil	0.030 Million TPA

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Waste	Interburden (clay)/Screen rejects/Waste:- 0.245 Million TPA, Sub-grade Mineral (Mineral rejects):- 0.425 Million TPA
Total Excavation	Expansion from 3.2 Million TPA to 6.3 Million TPA
Crusher	No Change in existing crusher (1500 TPH) & OLBC
EIA/EMP uploaded on	30.04.2021

5. Lease Detail

Government of Rajasthan granted mine lease	Area	320.0 ha
	Letter no.	P4 (298) KHAN/ Group – 02/ 81 in favour of J. K. Cement Works
	Date	25.07.1984 for 20 years
Registration date	06.08.2014	
Mine lease validity	12.12.2034	
Additional information	First renewal was grant by State Government with area reduction from 320 ha To 315.409 ha signed on 05.08.2014 and registered on 06.08.2014. As per provision of MMDR Amendment Act' 2015, the validity of lease period has been extended upto 12.12.2034 vide State Government order no. AME/ Nimba/ CC – 1/ ML4/ 2003/ 2050 dated 27.02.2015.	

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter no.	584(4) (3) (1837)/ 2020 – RCM – AJM
	Date	24.11.2020
Additional information	Modification of review of mining plan with progressive mine closure plan approved by office of regional controller of mines, IBM, Ajmer for a period from 2020-21 to 2024-25 for the capacity of 6.3 Million TPA	
Mining Parameters	Quantitative Description	
Bench Height	9 m	
Bench Width	20-25 m	

Method of Mining	Opencast – fully mechanized with controlled blasting, wet drilling, excavation, loading & unloading, transportation and crushing
Overall pit slope	45°
Drilling/Blasting	Yes
Details of transportation	Tippers and OLBC

7. Land Area Breakup

Land details	Govt. Land – 40 Ha. Grazing Land – 77 Ha. Private Land - 198.409Ha.
Total Mining lease area (MLA)	315.409 Ha

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

Particulars	Distance (Km)	Direction
	(From Lease Boundary)	
Village:-		
Nearest Town- Nimbahera	8.72	SE
Nearest City- Chittorgarh	20.61	NNE
Nearest District Headquarter – Chittorgarh	20.61	NNE
Schools:-		
Kailash Vidhya Vihar School	6.96 km	6.96 km, SE
Smart Kids School	7.63 Km	7.63 Km, SE
J.K. Regional Training Center, Nimbahera	6.74 Km	6.74 Km, SE
Temples:-		
Radha Krishna Temple	6.79 km	6.79 km, SE
Shivalya Temple	8.01 km	8.01 km, SSE
Isqabad Masjid	6.96 km	6.96 km, SSE
Highway:-		
NH-79	2.95	E
Water Bodies		
Murlia Dam	1.52	ENE
Satkhandia Nadi	4.89	NE
Gambhiri River	9.6	ENE

9. Water requirement

Total water requirement	161 KLD	Existing	142 KLD
		Additional	19 KLD
Source	The domestic water demand: Ground water and balance		

	water demand: stored mine pit
Additional information	1 KLD water will be used for domestic purpose, 80 KLD for dust suppression, 60 KLD for plantation and 20 KLD for washing of HEMM.

10. Reserved forests and Protected Forests in the study area

S. No.	Particulars	Distance (Km)	Direction
		(From Lease Boundary)	
1.	Alsigarh P.F.	3.90	W
2.	Kalkaliya R.F	4.10	NW
3.	Bansaria Block P.F.	4.78	W
4.	Kannauj Block P.F.	5.18	WNW
5.	Machhlia R.F.	5.88	NW
6.	Kotmagra R.F.	6.75	SW
7.	MabalBodiya R.F	8.75	SW
8.	Dhamariya R.F.	9.0	W
9.	Dhamariya R.F	9.0	W
10.	MujalAronda P.F	9.18	W
11.	Bhamariya Khalasa Block-PF	9.71	WNW

Availability of Schedule-I species in study area – Six Schedule -1 species found which are *Pavocristatus* (Indian Peafowl), *Pantherapadusfusca* (Indian Leopard), *Prionailurusrubiginosus* (Rusty-Spotted Cat), *Canis lupus pallipes* (Indian Wolf), *Varanusbengalensis* (Indian Monitor Lizard) & *Gyps indicus/Gyps bengalensis* (Indian Vulture).

Authenticated list of flora/fauna details

Schedule-1 species		
Schedule-I species	Yes	Combined Wildlife Conservation Plan has been approved by the Principal Conservator of Forest, Udaipur and recommendations forwarded to Additional Chief Conservator of Forest Jaipur for formal sanction vide letter no. f 5()forest conservation/ Principal conservator of Forest/2020-21/ 5002 dated 24.09.2020 and same proposal has been forwarded to APCCF, Jaipur on 15.10.2020 by DYCF, Jaipur. A budget of 285.30 Lakhs has been earmarked for the same.

11. Green belt/plantation details

Existing status	29.53 ha area with 59060 nos. of plants (inside and outside the lease area)
At conceptual stage	Total 84.57 ha plantation will be done with the total 1,80,002 plants.
Additional information	Total 7.5 mtr safety zone area is 6.128 ha out of which

	1.445 ha area has been planted and 1.81 ha will be completed by 31st March 2025.
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12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of Base Line Data Collection	March-May 2018
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer season

Details of the same were presented and PP submitted that these details are mentioned in chapter 3 of EIA/EMP Report.

13. Public Hearing (PH) Details

Advertisement for PH	Rajasthan Patrika & Danik Bhaskar published on 02.02.2021 & 01.02.2021 respectively.
Date of PH	09.03.2021 at 11.00 am
Venue	At Project Site, Falwa Road, Nimbahera TehsilNimbahera, District –Chittorgarh
Chaired by	Mr. Ratan Kumar, Additional District Collector, Chittorgarh
	Mr. Sharad Saxena, Regional Officer, Rajasthan State Pollution Control Board, Chittorgarh
Main issues raised during PH	Construction of CC, Community building work, school building and campus construction work, facilities for drinking water, employment, action should be taken to prevent the depletion of ground water table
Budget proposed for addressing issues raised during PH	Rs. 167 Lakhs

14. Court case details

Court Case	No
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15. Previous EC compliance and production details:

Certified EC compliance report	Obtained from Regional Office of MoEF&CC, Lucknow vide letter no. IV/ENV/R/MINE-223/333/2005 dated 09.12.2020
Certified production certificate	Issued by Mining Dept. vide letter no.AME/ NBH/ Static/ 2020- 21/02 dated 17.06.2020

16. Details of the EMP:

Particulars	Capital Cost (Rs. In Lacs)	Recurring Cost/ Annum (Rs. In Lacs)
A. Pollution Control Measures	85	11
B. Occupational Health and Safety	85	17
C. Green Belt Development Plan	272	16
D. Public Hearing Action Plan (Socio-Economic Development Activities)	514	0
E. Wildlife Conservation Plan (Common for two cement plant and five limestone mine)	285.35 Lacs	0
Grand Total	871.0	33

17. Details of project cost and employment:

Particulars	Details
Project Cost	87.70 Crores
Employment	105 persons

17. **Observation of the Committee:** The Committee observed no seriousness towards plantation in spite of submitting the undertaking by PP. The Committee will visit the site to verify the status of plantation and other aspects of EC recommendations. The Committee also observed that study on groundwater impact due to withdrawal of groundwater by the PP from the nearby villages has not been done. No effort being shown towards restoration and preservation of land as to what is being done for the after loss of agricultural land. No quantification has been done for impact of water recharge. Impacts of vehicular emission have not been provided despite of using the surface transport. Efficacy of EMP is not satisfactory and impacts of dust control, noise control etc. have not been defined properly. The Committee also noticed that the presentation was not clear and schematic.

18. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **deferred** the proposal due to want of following information:

- 1) Through KML file, adequate plantation was not observed and no efforts have been made for last 30 years. It is suggested to complete the plantation as committed.

- 2) The mine lease has already worked out. A budget and the plan to be submitted to the Ministry to restore the ecosystem in the mining area. Plan for possibility of restoring the agricultural land must also be incorporated.
- 3) Impact of recharge of ground water on the hydrology and the water balance at the pit though it and its utilization for community giving a total water balance such as use at the plant, use at the mine and use in the villages be given in a tabular form.
- 4) The Committee feels that there is adequate pit water available; the justification for drawl of additional ground water is required.
- 5) Noise modeling studies by taking actual data during blasting be generated, actual data monitored at the receptor during blasting be collected for calibration of model.
- 6) Impacts on air quality due to vehicular emission as the material are being transported actually to be monitored and modeled using calibrated data.
- 7) A commitment to put a conveyer belt by August and another conveyer belt within a year should be given in writing. PP needs to submit the efforts done for decreasing the impacts of vibration and transportation after installation of first conveyer belt as early as possible.
- 8) Conservation plan appears to be common for 5 mines and 2 plants of M/s J.K. Cement Limited. Cost should be separated and included in the budget for each mine and the plant.
- 9) PP needs to submit the revised EMP cost by removing monitoring cost from the budget and include plantation to be completed in 3 years in the peripheral and non-mineral zone, plantation outside the lease, avenue plantation on the transport road and the no. of plants to be planted year wise with the budget.
- 10) Cost of equipment for the dust control, noise control and vibration control to be indicated separately in the EMP cost. The budget and plan for creating water harvesting structures in the villages nearby by also to be submitted.
- 11) Cost for EMP to address the public hearing issues should have only capital investment and also the recurring cost if any be submitted in a tabular form.

DAY-4 (14.06.2021)

4.1: Proposal for Environmental Clearance (EC) for Nuagoan Iron ore mine of M/s JSW Steel Limited for expansion in Iron Ore production from 5.62 Million TPA to 7.99 Million TPA (ROM), along with existing 2.0 Million TPA Beneficiation plant

and Crusher and Screen Plants in the mine lease area of 767.284 Ha located in the village(s) of Nuagon, Guali, Topadihi, Barapada and Katasahi, Tehesil-Barbil, Keonjhar District, Odisha - [Proposal no: IA/OR/MIN/7226/2007; File No. J-11015/1156/2007-IA.II(M), Consultant: Vimta Labs Limited] – Environmental Clearance (Auction mine)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The Proposal of M/s JSW Steel Limited is for grant of Environmental Clearance (EC) for Nuagoan Iron ore mine for expansion in Iron Ore production from 5.62 Million TPA to 7.99 Million TPA (ROM), MLA 767.284 Ha, along with existing 2.0 Million TPA Beneficiation plant and Crusher and Screen Plants located in the village(s) of Nuagon, Guali, Topadihi, Barapada and Katasahi, Tehesil-Barbil, Keonjhar District, Odisha. The mine lease area located between Latitude 21°57'11.09"N to 21°59'34.32"N and Longitude 85°16' 6.04" E to 85° 19' 24.93" E. The mine lease area falls under the Survey of India Toposheet No 73 G/5 and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s JSW Steel Limited has made an online application vide proposal no: IA/OR/MIN/7226/2007 dated 31.08.2020 and submitted the Form-2 and EIA report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The proposal was considered under the Ministry's Notification S.O. 1224(E). dated 28th March, 2020.

3. The proposal was considered in 28th EAC meeting held during 24th-26th February, 2021 wherein the Committee returned the proposal in the present form due to short comings in the EIA/EMP report, PP submitted the online application on 26.03.2021. Ministry raised the EDS on 31.05.2021 to submit the compliance of all the ADS points sought by EAC in the meeting held during 24th - 26th Feb, 2021. PP submitted the information on 04.06.2021. The proposal was considered in 31st EAC meeting held during 9th -15th June, 2021. Wherein PP submitted the following: -

Details submitted by Project proponent.

5. The details of the ToR are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
26.06.2018	IA/OR/MIN/75586 /2018	September 28-29, 2018	TOR in the name of M/s Kamaljeet Singh Ahluwalia.	12.10.2018
18.07.2020	IA/OR/MIN/16410 0/2020	Transfer of EC/TOR Not required to refer the Expert Appraisal Committee as per the EIA Notification, 2006.	Transfer of TOR in the name of M/s JSW Steel Ltd.	20.08.2020

6. Details of Mine lease.

S.no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Minerals	Period of Grant		Granted by	Mine lease area in Ha
				From	To		
1	Transfer of mining lease vide Order no 11541/MG	01.12.1984	Iron Ore	-	03.03.1999	State Government, Odisha	767.284
2	Vesting Order vide 4167/SM	29.05.2020	Iron Ore	2 years		State Government, Odisha	767.284 Ha (As per ROR)/ 776.969 Ha (As per DGPS)
3	Grant of mining lease vide Order no 5443/SM	26.06.2020	Iron Ore	50 years		State Government, Odisha	767.284 Ha (As per ROR)/ 776.969 Ha (As per DGPS)

7. Details of executed Mine leases.

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S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	04.03.1999	31.03.2020	Registered on 08.05.2015 vide registered No.11031500236 in the name of M/s Kamaljeet Singh Ahluwalia
2	Date of entering into original lease deed	27.06.2020	26.06.2070	INOD010B0953743918S, M/s JSW Steel Limited

8. Land use details:

S No	Particulars	Details
1	Total land	767.284 ha
2	Involvement of Forest land if any	639.823
3	Agriculture land exists within the project site	74.445
4	Gazing land exists within the project site	Nil
5	Waste land	39.242
6	Built-up area	11.455
7	Water bodies	2.319
8	Others	Nil
9	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Beyond that surface right area there is no such requirement of land acquisition even in private plots like homesteads, agriculture, etc. However, if any such requirement arises in future, then and there, the acquisition will be as per the LA and R&R 2013.
10	Existence of habitation & involvement of R&R, if any	NA
11	Elevation of the project site	525m to 702m above MSL
13	Water body exists within the project site as well as study area	Kalmang Nala. Karo Nadi and Topadihi nala-are adjacent. Suna nadi, Teherei, Suna, Samij, Karo, Kakarpani, Kunduru nala lies in 10km radius.
14	Existence of ESZ/ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study	Nil

	area	
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9. Details of Mine Plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period		Details
				From	To	
1	Indian Bureau of Mines	MP/A/18-ORI/BHU/2020-21	12.10.2020	5 years		776.969 Ha (As per DGPS)/767.284 Ha (As per ROR) in the name of M/s JSW Steel Limited.

10. The Project Proponent submitted that the mining activity will be carried out by open cast mechanized method with drilling and blasting. The water table lies at a depth 480 MRL. Mining operation in the existing pits are above the ground water table as the ultimate mine working depth in the present scheme period is 520 m aMSL, present working depth is 525 aMSL. The ultimate pit limit in Katasahi Block is 432RL, Topadihi block is 438RL and at Guali Block is 450RL, so mining depth will not intersect the ground water table. The PP submitted that the total geological reserve is 417.947 Million Tonnes and Mineable reserve as 346.998 Million Tonnes.

11. PP submitted that there are presently six numbers of working blocks i.e. Barapada Block (pit Chanaguda, B Top & B Bottom), Katasahi Block (Pit Katasahi), Topadihi Block (Pit Sonukocha, Kaliakocha, Gangeiguda and Topadihi), Dumka Block (Pit MDH and D Top), Kanhusahi Block (Pit Kanhusahi) and Guali Block (Pit Guali). The height of the benches at Barpada block-10m and other blocks 6m and Bench Width- Barpada block-15m and other blocks-12m. overall slope will be 37.5°. The life of the iron ore mine is estimated to be 44 years. The total waste generated will be 22.753 Million m³. Presently there are 4 waste dumps within the lease area. The rejects generated from the beneficiation plant is in the form of filter cake. This can be disposed of with the waste material after making it dry. The mined out iron ore will be processed in the processing plant, crushing and screening units helps in processing of usable iron ore. After processing, ore is employed for commercial purpose and in steel based industries and in proponent's steel plant.

12. The Project Proponent submitted that nearest Village is Barbil – 15 Km (NE), Koida – 7.3 km (SE) and Odisha-Jharkhand State Boundary is at a distance of 4.2Km (NW). PP also submitted that Reserve / Protected Forests near project are: Karo R.F 0.6 Km (W), Lakhraghat R.F-0.6 Km (N), Sidhhamath R.F-1.3 Km (E), Uliburu R.F-1.5 Km (N), Mendhamaruni R.F- 1.8 Km (SSW), Karampada R.F- 4.3 Km (NW), Baitarani R.F-4.7 Km (E), Kathamala R.F-5.3 Km (SW), Bhabani pararh R.F-8.3Km(S).

13. The Project Proponent submitted that the total water requirement will be 1225KLD comprising 13KLD for domestic use, 220KLD for dust suppression, and 972KLD for Beneficiation Plant make up water, and 20KLD for Greenbelt and plantation. The water requirement is met from bore well. In this regard ground water permission has been obtained from CGWA. NOC of CGWA for ground water drawl of 1225 cum/day of water obtained vide File No. 21-4(92)/SER/CGWA/2008-1831 dated 03.11.2017 in the name of M/s KJS Ahluwalia and is valid for five years from the date of issuance of this order. PP also submitted that there will be no process effluent. About 95-97 % of the water from the beneficiation plant will be recovered and re circulated. No waste water will be discharged outside the plant and hence it is a “Zero discharge Plant”.

14. The Project Proponent submitted it has been planned to develop green belt within safety zone area over 2.05Ha. About 2.50Ha over the dump and 3.35Ha over the exhausted benches. Hence, during plan period, a total of 7.90Ha will be covered under plantation. At the end of the life of the mine, 654.936Ha covering backfilled mined out area, safety zone, bench plantation etc will be covered under plantation. Local native species in consultation with forest department will be used for plantation.

15. The Project Proponent submitted that there is no National Parks, Biosphere Reserve, Wildlife Corridors, and Tiger/Elephant Reserves/ Critically Polluted area/Aravali within the study area of 10 km radius. PP submitted that there is 639.823Ha forest land. PP reported that there are Schedule-I species like Yellow Monitor, Elephant and Sloth Bear and PP submitted the Site-Specific Wildlife Conservation plan approved vide letter no: 1WL-C-FC-386/08 dated 28.01.2009 by PCCF (Wildlife) and Chief Wild Life Warden in the name of M/s Kamaljeet Singh Ahluwalia. In this regard an amount of Rs. 2, 58, 00, 000 /- is deposited towards Site Specific Wildlife Conservation Plan and an amount of Rs. 1, 53, 45, 680 /- deposited towards Regional Wildlife Conservation Plan.

16. If Forest land exist in the Mine lease area.

S.No	Area under the forest	Proof of submission of application	Area obtained under	Details	Area obtained under	Details

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	land involved in Mine lease area		Stage-I FC		Stage-II FC	
1	639.823 Ha	-	-	-	476.205 ha	F. No 8-17/2001-FC, Dtd. 22.04.2004
2	639.823 Ha	FP/OR/MIN/50899/2020 dated 14.10.2020 over 626.295 ha and NPV advance amount of Rs. 48,71,31,000 already paid to Govt.	-	-	-	-

17. The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Summer Season. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of March to May, 2018 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples. PP also submitted the Comparison of Baseline Environmental Monitoring data of Summer (March to May' 2018) and Post Monsoon season covering (October to December'2020) at Nuagaon Mining Lease Area and the results of Baseline data collected for Air, Surface Water, Ground Water, Noise and Soil for two different seasons data for two seasons are of in compliance with the respective standards of all parameters for both study periods.

Period					
AAQ parameters at 8 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	24.1	39.9	38.0	60
	PM10	51.4	82.6	80.5	100
	SO2	3.3	6.8	6.4	80
	NOx	7.0	15.8	14.9	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	38.4	3.0	42.0	60
	PM10	81.5	6.0	88.0	100
	SO2	6.5	2.0	9.0	80

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	NOx	15.2	12.0	28.0	80
Noise level at 8 locations	Day Time: 45.6 - 54.0 Leq dB (A) Night Time: 38.6 to 44.1 Leq dB (A)				
Ground water quality at 5 locations	PH varied from 6.56-7.23, Total hardness varied from 1 to 78.7 mg/l, Total dissolved solids varied from 16-92 mg/l, Chloride from 6.4-17.6 mg/l, SO 4 varied from 11.9 -34.5 mg/l, Fluoride 0.1 to 0.23 mg/l. The water quality of the collected ground water samples was found to be within the prescribed permissible limits of IS: 10500:2012 Norms for Drinking in the absence of an alternative source.				
Surface water quality at 5 locations	pH varied from 7.02-7.25, DO varied from 5.3 mg/l to 6.3 mg/l, BOD varied from 2.0 mg/l to 24.0 mg/l and COD varied from 4.0 mg/l to 79.7 mg/l. Surface water is not used for drinking and not potable.				
Soil quality at 6 locations	pH values were ranging between 3.66-4.68 and Electrical Conductivity values were ranging between 10.83-36.61µmhos/cm. Soils are generally clay loam, Silt Clay to silt loam type.				
Traffic assessment study findings	Traffic and Transportation Study for estimating the impact of Nuagaon Iron Ore mines of KJSA on the Joda-Barbil Road Network of Odisha was carried out by CSIR-Central Road Research Institute (CRRI). Based on the Study, it was observed that average V/C ratio of the study road network is 0.29 based on the widening of NH 215 from Two Lane to Four Lane divided Carriageway. After expansion additional 20 tucks/hour will be add in the existing traffic on the road which will have very negligible impact. The V/C ratio will remain in Category "B".				
Flora and fauna	Schedule-I species like Yellow Monitor, Elephant and Sloth Bear and PP submitted the Site-Specific Wildlife Conservation plan approved vide letter no: 1WL-C-FC-386/08 dated 28.01.2009 by PCCF (Wildlife) and Chief Wild Life Warden				

18. Public Hearing:

Details of Advertisement given	Advertisement was published in major dailies (namely The Times of India and Dharitri) on 05.02.2019
Date of Public Consultation	08.03.2019
Venue	Barpada Ground, Barpada village of Keonjhar District
Presiding Officer	Additional District Magistrate, Keonjhar.
Major Issues Raised	Employment to locals and Environmental protection measures.
No of People Attended	500

19. Public hearing action plan as per MoEF&CC O.M. dated 30/09/2020

The Project Proponent has purposed a budget of Rs. 1452.43 Lakhs for undertaking various activities and it will be implemented within 3 years.

20. The Project Proponent has submitted that Mining operations are in the lease for the last 6 decades. Small habitations in Nuagaon village are located in this lease area for a long time. However, the mining & allied activities at present and also in the conceptual period will be confined to this granted surface rights area. Beyond that surface right area there is no such requirement of land acquisition even in private plots like homesteads, agriculture, etc. However, if any such requirement arises in future, then and there, the acquisition will be as per the LA and R&R 2013.

20. The Project Proponent submitted the latest Certified Compliance report certified by MOEF&CC, Bhubaneswar vide Lr No 101-391/EPE/546 dated 23.03.2021 and Certified Closure Report on the compliance observations accorded by MOEF&CC, Bhubaneswar vide Lr No 101-391/EPE/593 dated 25.03.2021. As per the Certified Compliance and Certified Closure from Regional Office, MOEF&CC the project is put up under the Complied/in process of Complied Category.

21. The Project Proponent submitted the Past Production details vide no 3357/Mines, dated 31.07.2018 for the period 1990-91 to 2017-18. Proponent has informed that there is a court case under section 15 of EP Act 1986 in JMFC, Barbil with case number 88/2013, under subjudice with relevance to excess production in the past. For excess production, in pursuance of the Supreme Court order dated 02.08.2017 in CWP no. 114/2014, the DDM, Joda has raised the demand notices no. 6112 Dated 13.12.2017 towards environmental clearance matter, M/s Kamaljeet Singh Ahluwalia (earlier lease) has deposited Rs 1072,60,31,101/- as directed. Besides, in pursuance of the Supreme Court order dated 02.08.2017 in CWP no. 114/2014, the DDM, Joda has raised the demand notices no. 5136 Dated 23.10.2017 towards forest matter, the project proponent has deposited Rs 2,33,57,557/- as directed.

22. The Project Proponent submitted that there are two cases pending for proposed Nuagaon mine at Odisha High Court with order no. WP (C) 24918/2020 & WP (C) 17630/2020. The first one is regarding the refund of excess stamp duty paid during the time of registration of lease deed. And other one is Extension of the earlier order dated 21.12.2016 passed by Odisha High Court in W.P. (C) No. 22382 of 2016 by virtue of which the ex-lessee was operating on Sabik forest land, till now no order has been passed.

23. The Project Proponent submitted the NOC obtained from the previous lessee in a Non-judicial Stamp paper of Rs 100 bearing F 874040 dated 12.10.2020

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- i. That we have no objection, if the Final EIA Report prepared by us & accredited consultant along with all other documents/proceedings including Public Hearing for expansion of Iron ore production submitted by JSW. We allow JSW to relay and possess these documents and related proceedings & correspondence with statutory bodies.
- ii. By furnishing the NOC, we relinquish all claims/rights/ownership/interest over these documents/proceedings and undertake not to make any claim in future on MoEF&CC or any other Govt agency in this regard.

24. PP also submitted that we certify that the information and data provided in the EIA report and submitted by the Ministry are factually correct and Project Proponent is fully accountable for the same. The Consultant, M/s Vimta Labs Limited will undertake and involved in the EIA process after the meeting of 28th EAC held on 25.02.2021.

25. The Project Proponent submitted that the total capital cost of the project is Rs. 50 Crore. PP vide Lr No. JSW/S/O/2021/140 Dated: 15/06/2021 submitted the revised EMP cost as Rs 6.75 Crores as Capital EMP Cost and 2.30 Crores as Recurring Cost. PP reported that the total man power is 709 persons comprising 116 persons on direct basis and 593 persons on contractual basis.

26. The proposal for Environmental Clearance was considered in the 31st EAC meeting held during 9th - 15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of M/s JSW Steel Limited for expansion in Iron Ore production from 5.62 Million TPA to 7.99 Million TPA (ROM) along with existing 2.0 Million TPA Beneficiation plant and Crusher and Screen Plants in the mine lease area of 767.284 Ha located in the village(s) of Nuagon, Guali, Topadihi, Barapada and Katasahi, Tehsil-Barbil, Keonjhar District, Odisha with the following specific conditions along with the recommendation of CSIR-NEERI Report on Carrying Capacity Study for Environmentally Sustainable Iron and Manganese Ore Mining on carrying capacity study in addition to the standard conditions applicable for non- coal mining projects:-

- i. The new lessee, after obtaining Letter of Intent (LoI), shall obtain approval under the FCA-1980 following due procedure, for non-forestry use of forest land falling in such mining lease for continuing mining operation beyond two years during which it has deemed to have acquired rights to undertake mining operation. In case, approval under the FCA-1980 is not obtained within the stipulated time of two years of commencement of lease by the new lessee, the mining operation shall be stopped till such approval has been obtained.

- ii. While obtaining approval under the provisions of FCA-1980 as per clause (b) above, the new lessee shall pay the Net Present Value (NPV) for the total forest area located within the mining lease, along with any other amount due as per guidelines issued by Government of India from time to time. However, on the date of issuance of Lol, the state government shall realize a lump sum amount at the rate of Rs 7.50 lakh per ha (for the total forest area within the mining lease) from the new Lol holder. This amount shall be deposited into the account of CAMPA, which will be adjusted against actual compensatory levies payable on the forest land, at the time of approval as per clause (b) above.
- iii. The budget of Rs. 1452.43 Lakhs 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 all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- iv. The Project Proponent shall undertake the adequate plantation in peripheral zone as well as gap plantation with the seedling of 6-8 ft height with at least 90% survival rate to control the dust at source and should be completed within 3 years from the date of commencement of mining operations. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year.
- v. PP shall construct garland drains with protective bunds around excavated area, to avoid entrance of surface run off into pit and mixing with ground water. Furthermore, PP shall make garland drains/storm water drains along with siltation/settling tanks at regular interval around the active mine pits through proper plan which follow the natural slope of surface run off and/or to avoid its mixing with groundwater.
- vi. Appropriate mitigative measures should be taken to prevent pollution of the Karo River and the Suna Nadi in consultation with the State Pollution Control Board.
- vii. The conservation plan in consultation with the Forest Department shall be implemented and compliance of the same shall be submitted to IRO of MoEF&CC before 1st July of every year.
- viii. Project proponent shall furnish a certificate from DFO regarding satisfactory compliance of of site specific wildlife conservation plan prepared by earlier lesse.

4.2 Proposal for Environmental Clearance of M/s. Dalmia Cement (Bharat) Limited for Proposed Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including Mining Area 185.57 ha, Non-Mining Area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with Total Excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] located near Villages: Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil: Amarpatan, District: Satna, Madhya Pradesh – [Proposal No: IA/MP/MIN/64735/2017, File No. J-11015/58/2017-IA.II(M), Consultant: J.M. EnviroNet Pvt. Ltd] - Environmental Clearance (EC).

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s. Dalmia Cement (Bharat) Limited is for grant of Environmental Clearance for Proposed Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including Mining Area 185.57 ha, Non-Mining Area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with Total Excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] located near Villages: Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil: Amarpatan, District: Satna, Madhya Pradesh. The mine lease area falls under the Survey of India Toposheet No G44V3, G44V2, G44V3, G44V6 & G44V7 and bounded by Latitude 24°26'41.5" N to 24°28'18.3" N and Longitude 81°09'42.6" E to 81°12'27.6" E with an elevation of 319 m AMSL to 328 m AMSL and falls in Seismic zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s. Dalmia Cement (Bharat) Limited has made an online application vide proposal no IA/MP/MIN/64735/2017 dated 12.03.2021 and submitted the Form2 and EIA report after conducting the public hearing on 29.10.2020 under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level. Thereafter, Ministry sought EDS on 31.03.2021 and the PP submitted the information on 15.04.2021. Then, the Ministry again examined the proposal and sought EDS on 31.05.2021 and the PP submitted the information on 04.06.2021. The proposal was considered in the 31st EAC meeting held during 9th - 15th June, 2021. Wherein PP submitted the following:

Details submitted by the PP.

3. The details of the ToR are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
16.05.2017	IA/MP/MIN/64735/2017	28 th June, 2017, 29 th August, 2017, 24 th October, 2017, 24 th April, 2018	Terms of Reference	16.05.2018

4. Details of Mine lease.

S. no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Minerals	Period of Grant		Granted by	Mine lease area in Ha
				From	To		
1	Prospecting license vide Lr F-2-74/09/12/1	22.05.2010	Limestone	08.06.2010	07.06.2012	State Government, Madhya Pradesh	735.296 ha
2	Mining lease vide F-3-8/2013/12-1	20.03.2015	Limestone	50 years		State Government, Madhya Pradesh	395.965 ha

5. Details of executed Mine leases.

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	06.11.2015	05.11.2065	N 867758, F. No 154/27/15 dated 27.07.2015 between M/s. Dalmia Cement (Bharat) Limited and Government of Madhya Pradesh

6. Land use details:

S No	Particulars	Details
1	Total land	395.965 ha
2	Involvement of Forest land if any	Nil
3	Agriculture land exists within the project site	305.860 ha

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4	Gazing land exists within the project site	Nil
5	Built-up area	14.808 ha
6	Plantation, Open land, Quarry	75.297 ha
7	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Under Process to be purchased
8	Existence of habitation & involvement of R&R, if any	4 no. of villages and there are 387 Project Affected Families (whose land to be purchased) and 11 nos of Houses.
9	Elevation of the project site	319 m AMSL to 328 m AMSL
11	Water body exists within the project site as well as study area	ML was granted excluding the water bodies along with statutory barriers. Minor seasonal rivulets exist and these drained into Bihar River. Seasonal water courses initiate from the NW of the lease area (non mining zone) which ultimately join Lilji Nadi towards ENE. There is part of a pond In SW portion of the mining lease.
12	Existence of ESZ/ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil

7. Details of Mine Plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period of		Details
				From	To	
1	Indian Bureau of Mines	MP/Satna/Limestone/ MPLN/G-03/14-15/ 5208	29.09.2014	5 years		
2	Indian Bureau of Mines	MP/Satna/Limestone/ Mod-28/18-19	30.11.2018	2018-2019	2019-2020	Based on the directions of EAC/MoEF&CC

						Modified Mining Plan along with PMCP prepared for the balance period.
3	Indian Bureau of Mines	MP/Satna/Limestone/RMP-26/2019-20	23.01.2020	2020-21	2024-25	1.5 MTPA

8. The Project Proponent submitted that the mining activity will be carried out by open cast mechanized method with drilling and blasting. Mining is proposed to a maximum depth of 48m in below the ground whereas the ground water table exists at an average depth of 22m bgl during pre-monsoon and 20m during post-monsoon, so mining depth will intersect the ground water table. PP did not obtain the permission for intersection of ground water table. The PP submitted that the total geological reserve is 81.75 Million Tonnes and Mineable Reserve is 36.46 Million Tonnes.

9. PP reported that the life of the mine will be ~ 27 years. Bench height and bench width will be maintained at 2m - 6m and 15m respectively. Mining will be carried out in 6 pit/blocks (Pit/Block no. 1, 3, 4, 5, 6 & 7) having total area of 185.57 ha. In addition to this a Crusher of 500 TPH and other infrastructures will be installed over an allowed area of about 2 ha area. The total area used for mining and allied infrastructure including crushing will be 187.57 ha and remaining area of 208.395 ha will be treated as no mining area and only green belt development, afforestation and other protective activities will be carried out in this area. The Ministry granted Terms of Reference for setting up crusher of 1200 TPH but now the PP proposed to setting up crusher of 500 TPH capacity only.

10. PP submitted that 2.5 Ha area is existing quarry and submitted the letter no 882/□□□□/2018 dated 14.03.2018 issued by Mining Office, Collector office Satna wherein it has mentioned that as per official record a case has been filed on 14.02.2017 against 3rd party Shri Sanjay Singh S/o Shri Lallu Singh, village Jhinna for said old illegal mining. No other mining activity has been carried out after filling the case. The Sarpanch of Jahria-Koprihan and Pagra villages have confirmed that no mining activity has been initiated by M/s Dalmia Cement (Bharat) Ltd (DCBL) in the lease area. PP also submitted that at conceptual stage, Block 1, 4 and 5 will be completely backfilled and reclaimed. The block 3 and 6 will be partially backfilled and partially converted into water reservoir. The block 7 will be competently converted into water reservoir. The waste material to be generated during mining operation during the plan period will be dumped in the North Eastern part of the intended mining lease area near the western boundary of current working pit. The crushed limestone is proposed to transport by road

in 2 shift basis to the proposed cement plant to be located at distance of about 25.7 km away (road distance), near Jamuna village.

11. The Project Proponent submitted that the part of Villages i.e. Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan falls within the lease area. Nearest highway is NH-30 (Earlier NH-7) (~ 2.0 km, NNW).

12. The Project Proponent submitted that the total water requirement for the proposed mining project will be about 75 KLD of which 25KLD for Dust Suppression, 35 KLD for Plantation and Greenbelt Development, 10 KLD for workshop and 5KLD for drinking water which will be sourced from ground water after obtaining necessary permission from the competent authority and/or mine sump (as & when developed). Application has been submitted for abstraction as well as for dewatering of ground water during mining vide no 21-4/1071/MP/MIN/2020 dated 24.12.2020 and approval is under process.

13. The Project Proponent submitted that during the plan period, greenbelt will be developed in 7.5m safety zone along ML boundary over an area 12.62 ha. From the 6th year onwards about 18.945 ha area will be covered under greenbelt and safety zone. Afforestation on backfilled area will be developed phase wise. Till the end of life of mine, total area under Green belt/Plantation will be 143.565 ha (110 ha on backfilled area, 2.0 ha on infrastructure and 31.565 ha area around 7.5 meter ML periphery & safety zone). The trees will be planted @ 2500 saplings per ha and about 358912 trees will be planted on 143.565 ha area. Indigenous & fruit bearing species will be planted by DCBL in consultation with local forest department. Some of the selected species comprise *Silver Oak, Tree/Agati, Indian Coral tree, Neem, Palash, Semal/ Kapok, Amaltas, Senjana, Mango, Bel, Gulmohar, Ashok, Site Ashok, Karanj, Teak/Sagwan, Saja, Guava, Krishna Siris, Jamun, Sitaphal, Chiku, Mulberry/ Shahtut, Lemon, Kaner, Night blooming Jasmine* etc. The Project Proponent earmarked about Rs. 4.30 Crores for development of greenbelt & plantation till the end of life of mine @ Rs 120/sapling (including plantation and maintenance cost). About Rs 15 Lakhs earmarked for nursery.

14. The Project Proponent reported that there is no National Parks, Biosphere Reserve, Wildlife Corridors, and Tiger/Elephant Reserves/ Critically Polluted area/Aravali located within the radius of 10km of the mine lease area. PP submitted that there is no forest land involved in the Mine lease area. PP reported that there are no Schedule-I species in support of this PP submitted vide letter no V. Pra./Ma. Chi/Mine-81/2159, Bhopal, dated 06.03.2021 duly authenticated by Chief Wildlife Warden & Principal Chief Conservator of Forest. PP also submitted that PCCF, Madhya Pradesh vide Lr.व.प्रा./मा°चि°/माइन-81/3928 dated 10.06.2021 confirmed that the Maharaja Martand Singh Judeo Dev White Tiger Safari and Zoo is at approx 4.5 Km from the proposed

mine and has issued NOC regarding the operation of mine subject to condition that PP should undertake controlled blasting, greenbelt plantation and water sprinkling on the roads.

15. 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. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water for the month of October to December, 2018 have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period					
AAQ parameters at 8 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	20.6	55.7	54.9	60
	PM10	47.4	89.8	88.9	100
	SO2	5.6	15.4	15.2	80
	NOx	9.8	28.6	28.2	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	34.9	1.6	36.5	60
	PM10	73.8	4.6	78.4	100
	SO2	10.8	0.5	11.3	80
	NOx	18.9	1.5	20.4	80
Noise level at 8 locations	Day Time: 51.2 to 54.7 Leq dB (A) Night Time: 42.1 to 44.6 Leq dB (A)				
Ground water quality at 7 locations	pH varied from 7.05 to 7.21, total hardness varied from 361 to 465 mg/l, alkalinity 265.53 to 413.73 mg/l & total dissolved solids varied from 525 to 692 mg/l, chloride from 12.50 to 54.21 mg/l, SO4 varied from 88.98 to 212.24 mg/l, Nitrate 0.23 to 3.48 mg/l, Ca from 95.23 to 143.21 mg/l, Mg varied from 14.73 to 42.10 mg/l. The results indicate that groundwater from all the samples, were observed to be within the permissible limits and comply with the drinking water standard (IS: 10500-2012).				
Surface water quality at 2 locations (Fresh assessment of surface water quality has been carried out on 20/11/2018)	pH of collected water samples varied from 7.22 to 7.35, Total hardness (87.54 to 128.70 mg/l), Total dissolved solids (132 to 178 mg/l), Alkalinity (68.54 to 135.85mg/l) and conductivity (308 to 341 $\mu\text{S}/\text{cm}$) were found to be within standards. The COD and BOD were found within the range (8.0 to 16.40 mg/l) and (2.20 to 4.40 mg/l) respectively. The nutrients were also found viz. sulphate (5.98 to 13.20 mg/l), nitrate (0.10 to 2.69 mg/l), calcium (23.21 to 29.80mg/l), magnesium (7.20 to 13.23 mg/l).				
Soil quality at 7	The soil samples exhibits brown and yellowish brown which				

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locations	indicates good fertility and presence of organic matter in the soil samples. The colour and turbidity were of permissible range and odour was found agreeable at all locations. pH value shows that soil is neutral to slightly alkaline in nature as pH value varied from 7.10 to 7.65 and soil textures of the soil samples were Silt loam.
Traffic assessment study findings	Traffic survey has been conducted on the NH-75 which is at the ~ 4.5 km from the proposed project site in South direction. Total numbers of vehicles per hour under the six categories were determined. About 5,000 Tonnes of Limestone after mining will be transported to the cement plant of the lessee at a distance of ~25.7 km to proposed cement plant through 25 tonne capacity tippers. It is seen that percentage of utilization of road will increase from 21% to 38%. V/C ration for the existing traffic scenario is observed to be 0.2 which falls under the LOS category "B having a performance of Very Good" for MH-75 and V/C ratio after the increased traffic volume due to the proposed project is found 0.38 which is also categorized under "B having performance of Very Good".
Flora and fauna	PP reported that there are no Schedule-I species in support of this PP submitted vide letter no V. Pra./Ma. Chi/Mine-81/2159, Bhopal, dated 06.03.2021 duly authenticated by Chief Wildlife Warden & Principal Chief Conservator of Forest.

16. Public Hearing:

Details of Advertisement given	26.09.2020 in Dainik Jagran Samachar, Dainik Alok, Raj Express Samachar, Nav Swadesh Samachar, Satna
Date of Public Consultation	29.10.2020
Venue	Mine site, Jhiriya Bajpaien, Tehsil: Amarpatan, District: Satna
Presiding Officer	Smt Vimlesh Singh, Additional Collector, Satna and Dr. A.K. Shrivastav: Regional Officer, Regional Office (MPPCB), Satna (Madhya Pradesh).
Major Issues Raised	Employment, Control of Pollution, Land Compensation, Impact of pollution on surrounding crops, Improvement in education & health and basic facilities etc
No of People Attended	313

17. Public hearing action plan as per MoEF&CC O.M. dated 30/09/2020

Sl.no	Activities	Yr1	Yr2	Yr3	Total (Rs. In Lakh)

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i	Water Conservation	5	5	0	10
	Rejuvenation / deepening of existing ponds (one in each village) in Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan				
	Construction of Hand pump (one in each village) in Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan Repair and maintenance and construction of existing water structures in village Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan	10	5	0	15
ii	Livelihood Setting up of skill training center under the banner of Dalmia Institute of Knowledge and Skill Harnessing (DIKSHa) for training of unemployed youth common for plant and captive mines proposed in the area. <ul style="list-style-type: none"> • No. of Training center – 1 • Place of training Centre – Pagra Jhiria • Trades: General Duty Assistant, Retail Sales & Assistant Electrician, Computer Operators, HEMM Driver etc. • Duration of courses: 3 months • Affiliation: NSDC / MP Skill Mission • Capacity of the Centre: 270 	45	25	25	95
iii	Social Infrastructure	5	5	0	10
	Installation of 20 nos of Solar lights in common places of villages Installation of Solar plates in Schools for Power back-up				
	Refurbishment of Govt. elementary / senior secondary schools like boundary walls, painting, drinking water, sanitation, sports equipments etc. in Jhiriya Bajpein	10	5	0	15
	Setting up of computer labs for imparting computer literacy programs for school	10	10	0	20

	children and Digital Classroom with Modern teaching aids.				
	Upgradation of medical equipments in existing health sub centers, PHC like extra beds, x – ray machines, ECG machines etc. in Jhiriya Bajpein.	7	7	1	15
	Renovation / construction of Community Centers	10	0	0	10
	Improvising facilities in mini zoo by providing 2 nos of battery operated vehicles (White Tiger Safari) at Mukundpur	5	5	0	10
	Total				200

18. The Project Proponent submitted that the total ML Area is 395.965 ha, out of which 3.884 ha is Govt. Land & 392.081 ha is Private Agriculture Land. ML Area falls in 4 revenue villages i.e. Pagra, Jhiriya Kothar, Jhiriya Baipaien, Jhiriya Koparihan. Looking into the proximity to habitation, EAC recommended mining only in six blocks out of 11 blocks (Block no 1, 3, 4, 5, 6 & 7) having total area of 185.57 ha and 2 ha for crusher, comes as 187.57 ha. Remaining 208.395 ha area is as non-mining area (2.47 ha area: Undisturbed existing road, 174.360 ha area: undisturbed land will be treated as no mining area & 31.565 ha area: Green belt development along the 7.5m periphery of mining lease & safety zone). Therefore, it is proposed to purchase 187.57 ha for mining & allied purpose & 31.565ha for greenbelt/plantation development. Thus, total area to be purchased is 219.135 ha. Land will be purchased in transparent manner at mutually agreeable rates. As per khasra details 703 families involved in the lease area out of which 387 are project affected families (whose land to be purchased) and 11 nos of houses falling in area recommended by EAC. There is no SC family & ST family to be displaced due to mining activities. Estimated Budget for the Resettlement & Rehabilitation is Rs. 62.457 crore.

19. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up.

20. The Project proponent submitted an undertaking for compliance of Common Cause order and other statutory requirements by the way of an affidavit on Rs 100 (Non judicial Stamp paper) bearing certificate number IN-DL 68203292132480T dated 01.04.2021. In addition to this PP submitted an undertaking dated 10.03.2021 that all the data and information given in the application, enclosures, and other documents are true. The Consultant submitted the NABET Accreditation Certificate NABET/EIA/2023/RA 0186 which was valid up to 07.02.2023.

21. The Project Proponent submitted an undertaking dated 10.03.2021 that DCBL owns the contents (data & information) of the EIA report prepared and submitted by J.M. EnviroNet Pvt. Limited. Further, it is to state that, instructions as per MoEF&CC O.M. No. J-11013/41/2006-IA. II (I) dated 04.08.2009 has been followed during the preparation of this EIA/EMP Report. The Consultant submitted an undertaking dated 11.03.2021 to the effect that the ToRs prescribed by MoEF&CC, New Delhi vide Letter No. J-11015/58/2017-IA.II (M) dated 16.05.2018 have been complied as per data/details provided by Project Proponent & as per approved Mining Plan approved by IBM and the data submitted are factually correct. The Consultant also given declaration that the Consultant Organization shall be fully responsible for any misleading information mentioned in this statement.

22. The Project Proponent submitted that the total capital cost of the project is Rs. 112 Crore and the capital cost for environmental protection measures is proposed as Rs. 3.44 Crore. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.64 Crore. The employment generation from the proposed project is 69 Nos.

23. The proposal for Environmental Clearance was considered in the 31st EAC meeting held during 9th -15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of M/s. Dalmia Cement (Bharat) Limited for Proposed Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including Mining Area 185.57 ha, Non-Mining Area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with Total Excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] located near Villages: Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil: Amarpatan, District: Satna, Madhya Pradesh with the following specific conditions in addition to the standard conditions applicable for non- coal mining projects:-

- i. The Project Proponent shall carry out the mining only in 187.57 Ha [185.57 Ha permissible mineral extraction area and 2 Ha for setting up of crusher of 500 TPH] only. The area of 208.395 Ha shall be treated as no mining area. In the no mining area only green belt development, afforestation and other protective activities shall be carried out.
- ii. The Project Proponent shall install the AQ station at the mine site, villages, from 500m edge of mining lease boundary towards Mini Zoo & White Tiger Safari for monitoring of any impact due to mining for the parameters mentioned.

- iii. The Project Proponent shall monitor the ground vibration at the site, near the boundary and sensitive receptor during blasting. Villages located in non-mining zone shall be protected from noise and vibration, air pollution by adopting measures as given in the EMP and as per the DGMS.
- iv. The budget of Rs 2.0 Crores 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.
- v. The Project Proponent shall return each block within 2 years after completion of each activity at each block with the proper reclamation for the purpose of agriculture.
- vi. The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Causalities of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth. PP shall undertake commercial plantation within 2 years at each block after it is backfilled
- vii. The Project Proponent shall convert the proposed 1.7km road into cement road which connects the NH-75 for mineral transportation.
- viii. The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
- ix. 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.
- x. The Project Proponent shall ensure that the water bodies used for community development.
- xi. The Project Proponent shall submit detailed Hydro Geological study for blocks where the water table is intersecting and obtain permission from CGWA before undertaking mining operations.
- xii. The Project Proponent should obtain permission for withdrawal of ground water before commencing mining operations.

- xiii. The Project Proponent should strictly follow the protective measures as suggested by PCCF, MP in the NOC granted vide Lr .व.प्रा./मां.चिं/माइन-81/3928 dated 10.06.2021 regarding the Maharaja Martand Singh Judeo Dev White Tiger Safari and Zoo.
- xiv. Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.
- xv. Project proponent shall examine the possibility of undertaking commercial plantation in consultation with local community within two years.

4.3 Proposal for Terms of Reference of M/s Flex Minerals for Bhivdoni Quartz & Quartzite Mine with total excavation 25,000 TPA (20,000 TPA Quartz & 5000 TPA overburden) in the mine lease area of 90.067 Ha at Village – Bhivdoni, Tehsil Sausar, Chhindwara District, Madhya Pradesh – [Proposal No: IA/MP/MIN/207011/2021, File No. IA-J-11015/29/2021-IA-II(M), Consultant: Srushti Seva Private Limited] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The Proposal of M/s Flex Minerals is for grant of Term of Reference for Bhivdoni Quartz & Quartzite Mine with total excavation 25,000 TPA (20,000 TPA Quartz & 5000 TPA overburden) in the mine lease area of 90.067 Ha at Village – Bhivdoni, Tehsil Sausar, Chhindwara District, Madhya Pradesh. The mine lease area located between Latitude 21°35'43.48" N to 21°36'36.705" N and Longitude 78°56'35.05" E to 78°57'56'.184" E. The mine lease area falls under the Topo sheet No: 55K/14. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Flex Minerals has made an online application vide IA/MP/MIN/207011/2021 dated 30.03.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" as the mining lease area located at a distance of about 3.60 Kms from the boundary of the Eco-Sensitive Zone of Pench National Park and Mansinghdeo Wildlife Sanctuary of Maharashtra and also adjacent to interstate boundary of Madhya Pradesh and Maharashtra and appraised at the Central level.

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3. The Project Proponent submitted that the proposal was earlier considered in the 17th meeting of the Reconstituted Expert Appraisal Committee in its meeting held on Feb. 24-25, 2014 and the proposal was deferred as the Project Proponent could not attend the meeting. The proposal was again considered in the Reconstituted Expert Appraisal Committee in its 6th meeting held on May 23-24, 2016 wherein the Committee prescribed the Standard TOR for undertaking detailed EIA Study. Then the Ministry delisted the proposal on 19.01.2017 as the PP could not undertake the Environmental Impact Assessment Studies and submit the necessary details to facilitate process of grant of Environmental Clearance. Now, considering the expiry of the TOR prescribed in the year 2016 and also changed environmental & socio-economic scenario at the project site, the Project Proponent applied for fresh grant of Terms of Reference vide online proposal no: IA/MP/MIN/207011/2021 dated 30.03.2021 and submitted Form1 and Prefeasibility report. The Ministry examined the proposal and sought EDS on 31.05.2021 and the PP submitted the information on 04.06.2021. The proposal was considered in the 31st EAC meeting held during 9th - 15th June, 2021.

4. Details of Mine lease.

S.no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Minerals	Period of Grant		Granted by	Mine lease area in Ha
				From	To		
1	Prospecting license 2-157/2008/12/2	07.10.2008	Quartz & Quartzite	1 year		Government of Madhya Pradesh	90.067
2	3-13/2009/12/2	05.11.2009	Quartz & Quartzite	1 year		Government of Madhya Pradesh	90.067
3	Grant of ML vide Order no 3-13/2009/12/2	12.02.2013	Quartz & Quartzite	30 years		Government of Madhya Pradesh	90.067

5. Details of Mine Plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period of		Details
				From	To	
1	Indian Bureau of Mines	CNW/QTZ/MPLN-1086/NGP	11.04.2011	5 years		90.067 Ha

6. The Project Proponent submitted that mining will be carried out by opencast manual mining as per indicated location, using hand tools such as spades, hammer, crowbar, chisel with one production bench of 2m height and slope will not be less than 45°. The machinery to be deployed are Compressor with Jack Hammer Drill and Tippers/Tractor Trolley for transportation which will be used on hired basis. 6 Nos. dumpers/day will be used for transporting minerals from mines to the desired destination. PP also reported that total Geological reserve is 4,27,118 Tonnes and Mineable reserve is 3,59,498 Tonnes. Life of the mine is 21 years. The Project envisages mining of Quartz / Quartzite @ 20,000 Tonnes as Peak Production in the Conceptual Period. However, as per the Mining Plan approved by Indian Bureau of Mines, during the five years period of the mining plan the peak production shall be @ 10752 Tonnes of ROM Mineral. The average ROM production from the mine during the five-year period shall be 7580 Tonnes / Annum. The mining operation will generate 2707 m³ of waste during first five years and 29391 m³ during conceptual period. The entire waste to be generated shall be utilized as filling material for construction of road to facilitate transportation of the mineral. No proposal for external OB dumping. There is no generation of topsoil.

7. The Project Proponent submitted that total water requirement is 4.0 KLD. Out of this, about 1.30 KLD water will be used for dust suppression, 60 KLD will be used for plantation, 0.90 KLD will be used for domestic purpose and 1.80 KLD will be used for plantation. Water requirement will be met from tanker water supply and pit water. PP submitted that ground water level exists at a depth of 20-25 m bgl whereas depth of the mining will be 2m. Hence, Ground water table will not be intersected during mining operation.

8. The Project Proponent submitted that afforestation will be done over 0.18 Ha of the mine lease area as per the approved Mining Plan. Afforestation in non-mineralized area will also be carried out during the course of mining. The trees will be planted @ 2000 saplings per ha of land.

9. The Project Proponent submitted that no forest land is involved in the mining lease area. PP submitted that there are two Reserve Forest such as Warpani R.F. (Adjacent, E) and Bhudkum R.F. (Adjacent, NE) are found within the study area. The Project Proponent reported that mining lease area is located at a distance of about 3.60 Kms from the boundary of the Eco-Sensitive Zone of Pench National Park and Mansinghdeo Wildlife Sanctuary of Maharashtra notified vide Ministry of Environment, Forest & Climate Change S.O. No. 3029(E) dated 13th Sept. 2017.

10. The Project Proponent submitted that the baseline data monitoring for Air, Water, Noise and Soil has been carried out between March to May 2021 (summer season).

11. The Project Proponent submitted that mining lease area of 90.06 Ha is a Government Waste Land. The area does not have any habitation. Thus, neither there will be any Land Oustee nor any R & R of the Project Affected Persons shall be involved in the Bhivdoni Quart / Quartzite Mining Project.

12. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up. PP submitted the affidavit bearing BB 431781 dated 03.06.2021 that the company will comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & others before grant of TOR/EC.

13. The Project Proponent submitted that the total cost of the project is Rs. 60 Lakhs. PP reported that the total manpower required for the proposed mining project will be 18 persons.

14. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th -15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference of M/s Flex Minerals for Bhivdoni Quartz & Quartzite Mine (MLA: 90.06 Ha) with total excavation 25,000 TPA (20,000 TPA Quartz & 5000 TPA overburden) at Village –Bhivdoni, Tehsil Sausar, Chhindwara District, Madhya Pradesh for undertaking detailed EIA/EMP study along with the following specific conditions: -

- i. The Project Proponent shall conduct the Public Hearing in both the states as the mining lease area located adjacent to interstate boundary of Madhya Pradesh and Maharashtra as per the provisions of the EIA Notification, 2006.
- ii. The Project Proponent needs to submit the Wildlife Conservation Plan approved by the competent authority of both the states of Madhya Pradesh and Maharashtra in view of the Eco-Sensitive Zone of Pench National Park and Mansinghdeo Wildlife Sanctuary of Maharashtra notified vide Ministry of Environment, Forest & Climate Change S.O. No. 3029(E) dated 13th Sept. 2017.
- iii. The Project Proponent shall mine only quartz as per the proposal.
- iv. The Project Proponent shall explore the possibility of excavating the mineral as it is currently restricted to 2m only.
- v. 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.

PP should also submit 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.

- vi. The Project Proponent needs to submit the District Survey Report (DSR) as per Ministry's notification S.O 3611 (E) dated 25th July, 2018.
- vii. The Project Proponent needs to confirm that is there any other homogeneous mining lease within 500 meters of this lease and forming cluster. If, yes details of the same needs to be provided.

4.4 Proposal for Terms of Reference of M/s SAIL for Expansion of Barsua-Taldih-Kalta Iron Mines (Amalgamated ML area: 2564.323 ha) from 8.05 MTPA to 16 MTPA (ROM) with total excavation of 22 MTPA and installation of new Dry Processing Plants of 7 MTPA for Taldih and 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha - [Proposal No: IA/OR/MIN/192496/2021, File No. IA-J-11015/30/2021-IA-II(M), Consultant: Nil] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The Proposal of M/s SAIL is for grant of Term of Reference for Expansion of Barsua-TaldihKalta Iron Mines (Amalgamated ML area: 2564.323 ha) from 8.05 MTPA to 16 MTPA (ROM) with total excavation of 22 MTPA and installation of new Dry Processing Plants of 7 MTPA for Taldih and 4 MTPA for Kalta and augmentation of existing 3.5 MTPA Barsua Beneficiation Plant located at Tantra & Bahamba Villages and Toda R.F, Tahasil Koira under Bonai Subdivision of Sundargarh District, Odisha. The amalgamated mine lease area falls under the Topo sheet No: 73G/1 (F45N1) and bounded by Latitude from 21°49' 25.43880" N to 21°59' 50.88516" N and Longitude from 85° 07' 43.73832" E to 85° 13' 53.48136" E and falls in Seismic Zone-II. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s SAIL has made an online application vide proposal no. IA/OR/MIN/192496/2021 dated 03.04.2021 and submitted Form-1 and Pre- feasibility report under the provisions of the EIA Notification, 2006 for the project mentioned

above. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals & 2(b) Mineral beneficiation under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at Central level. The Ministry examined the proposal and sought EDS on 31.05.2021 and the PP submitted the information on 02.06.2021. The proposal was considered in the 31st EAC meeting held during 9th - 15th June, 2021.

4. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th -15th June, 2021. After detailed deliberations made by the Project Proponent, the Committee noted that the PP amalgamated the contiguous Mining Leases viz ML – 130 (2486.383 ha) and ML – 162 (77.94 ha) covering total area of 2564.323 ha on 02.12.2020 and PP did not obtained amendment in EC after amalgamation of mining leases. Therefore, the Committee **returned the proposal in present form** and is of the view that the PP first should obtain necessary amendment in EC for amalgamation of mining leases and then should apply for Terms of Reference.

4.5 Proposal for Terms of Reference of M/s Odisha Mining Corporation Limited for Guali Iron Ore Mine [358.258 ha (as per DGPS)/365.026 ha (as per RoR)] with production capacity of 30 MTPA at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha – [Proposal No: IA/OR/MIN/208682/2021, File No. IA-J-11015/31/2021-IA-II(M), Consultant: M/s. Overseas Min-Tech Consultants] - Terms of Reference (Auction mine)

The proposal of M/s Odisha Mining Corporation Limited is for grant of Terms of Reference for Guali Iron Ore Mine [358.258 ha (as per DGPS)/365.026 ha (as per RoR)] with production capacity of 30 MTPA at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha. The mine lease area falls under the Topo sheet No: F45H8 and bounded by Latitude from 21°59'21.98” N to 22°00'01.10” N and Longitude from 85°17'04.19” E to 85°18'57.35” E and falls in Seismic Zone-III. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Odisha Mining Corporation Limited has made an online application vide proposal no: IA/OR/MIN/208682/2021 dated 09.04.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level. The Ministry examined the proposal and sought EDS on 31.05.2021 and the PP submitted the information on

04.06.2021. The proposal was considered in the 31st EAC meeting held during 9th - 15th June, 2021.

3. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th -15th June, 2021. After detailed deliberations made by the Project Proponent and the Consultant, Committee noted that the Consultant was unable to bring out the technical details and justify the submitted facts. Therefore, the Committee deferred the proposal for want of additional information: -

- i. The PP needs to submit the total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled and the management of topsoil and waste needs to be properly addressed in EIA/EMP report. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area need to be submitted.
- ii. The Project Proponent submitted that it is proposed to transport the iron ore through pipeline in the form of slurry and hence the PP needs to submit the details of transportation along with the schedule of implementation.
- iii. The Project Proponent should bring out the material balance, mass balance, equipment flow sheet and mineral processing with flow charts.
- iv. A detailed water balance should be submitted by the Project Proponent.
- v. The Project Proponent should submit the actual breakup of the forest land, forest clearances obtained and the balance area proposed for diversion.

4.6 Proposal for Terms of Reference of M/s Odisha Mining Corporation Limited for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/465.100 ha (as per RoR)] with production capacity of 10 MTPA at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha - [Proposal No: IA/OR/MIN/207724/2021, IA-J-11015/34/2021-IA-II(M), Consultant: M/s. Overseas Min-Tech Consultants] - Terms of Reference (Auction mine)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s Odisha Mining Corporation Limited is for grant of Terms of Reference for Jilling Langalotta Iron Ore Mine [456.037 ha (as per DGPS)/465.100 ha

ha (as per RoR)] with production capacity of 10 MTPA at Village(s) Jalahari, Jurudi, Banspani, Khuntapani, Bholebeda, Jajang, Baitarani Reserve Forest in Barbil Tehsil, Keonjhar District, Odisha. The mine lease area located between Latitude: 21°56'37.5297"N to 21°08'53.4185"N and Longitude: 85°25'08.8832" E to 85°26'37.1370"E. The mine lease area falls under the Topo sheet No: 73F/8 and 73G/5. The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Odisha Mining Corporation Limited has made an online application vide proposal no: IA/OR/MIN/207724/2021 dated 13.04.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level. The Ministry examined the proposal and sought EDS on 31.05.2021 and the PP submitted the information on 05.06.2021. The proposal was considered in the 31st EAC meeting held during 9th - 15th June, 2021.

3. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th -15th June, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Consultant was unable to bring out the technical details and justify the submitted facts. Therefore, the Committee deferred the proposal for want of additional information: -

- i. PP needs to submit the total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled and the management of topsoil and waste needs to be properly addressed in EIA/EMP report. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area need to be submitted.
- ii. The Project Proponent should clearly show the transport route of the mineral along with its with frequency and capacity.
- iii. The Project Proponent should bring out the material balance, mass balance, equipment flow sheet and mineral processing with flow charts.
- iv. A detailed water balance should be submitted by the Project Proponent.
- v. The Project Proponent should submit the actual breakup of the forest land, forest clearances obtained and the balance area proposed for diversion.

4.7 Proposal for Terms of Reference of M/s. Rungta Sons (P) Ltd for Sanindpur Iron & Bauxite Mine for Enhancement in production of Iron ore from 8.06 million TPA (7.0 million TPA ROM + dry crushing and screening of low grade ore from old stacks & dumps of 1.06 million TPA) to total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump + 2.8 Million TPA waste) in the mine lease area of 147.10 Ha located at villages Sanindpur & Oraghat, Tehsil- Koira, District- Sundargarh, Odisha- Terms of Reference - [Proposal No: IA/OR/MIN/209994/2021, J-11015/37/2021-IA-II(M), Consultant: Ecomen Laboratories Pvt. Ltd] - Terms of Reference.

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s Rungta Sons Pvt. Ltd. Is for grant of Terms of Reference for Sanindpur Iron & Bauxite Mine for Enhancement in production of Iron ore from 8.06 million TPA (7.0 million TPA ROM + dry crushing and screening of low grade ore from old stacks & dumps of 1.06 million TPA) to total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump + 2.8 Million TPA waste) in the mine lease area of 147.10 Ha, located at villages Sanindpur & Oraghat, Tehsil- Koira, District- Sundargarh, Odisha. The mine lease area located between Latitude 21°55'18.114" to 21°55' 54.912" N and Longitude 85°17'19.494" to 85°18'29.968" E. The mine lease area falls under the Survey of India Toposheet No.73G/5 (F45N5). The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Rungta Sons Pvt. Ltd has made an online application vide IA/OR/MIN/209994/2021 dated 22.04.2021 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level. The Ministry examined the proposal and sought EDS on 31.05.2021 and the PP submitted the information on 04.06.2021. The proposal was considered in the 31st EAC meeting held during 9th - 15th June, 2021.

3. The Project Proponent submitted that earlier Environmental Clearance was granted vide letter No. J-11015/107/2018-IA.II (M) dated 11.09.2019 for production of 8.06 million tonnes of Iron ore which includes 7.0 million tonnes of ROM Iron ore from mines excavation & 1.06 million tonnes of low grade Iron ore/mineral reject from old dumps. Now, PP applied for grant of Terms of Reference for enhancement in production of Iron ore from 8.06 million TPA (7.0 million TPA ROM + dry crushing and screening of low grade ore from old stacks & dumps of 1.06 million TPA) to total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump + 2.8 Million TPA waste).

4. Details of Mine lease.

S.no	Date of grant of Lease execution	Period of Grant		Details
		From	To	
1	Date of entering into original lease deed.	06.09.1985	05.09.2005	147.10 Hectares (Iron ore)
		06.09.1985	05.09.2005	Inclusion of Bauxite ore IV (B)SM-34/92-29 dt. 07/06/1993. For the same period and executed on 05/09/1993.
2	Supplementary lease deed	05.09.2005	05.09.2035	B 837615 Lease deed was executed on 14.07.2016

5. Details of Mine Plan

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period of		Details
				From	To	
1	Indian Bureau of Mines	MRMP/A/56-ORI/BHU/2020-21/54	09.04.2021	2020-21	2024-25	147.10 Ha

6. The Project Proponent submitted the mining operation will be fully mechanized. The existing in-pit crushing & screening of iron ore will continue. The production will be achieved by developing the benches of 6-9 m height with width up to 12 to 20 m. The

production of sub-grade ore will be tentatively 10% with grade having 45% to 58% Fe Content. The total mineable reserve of Iron Ore is 72.55 Million Ton. As per the proposed production, the life of mine is 5 years. The reserve of iron ore will increase due to exploration in unexplored area within the mining lease area. Within the mine both iron ore and waste materials will be excavated and transported through excavators of 3.2m³ /3.9m³ / 4.2m³ capacity with dumpers of 40 tonnes capacity. 2.1m³ excavators are used for feeding ROM Iron Ore to mobile crusher/screen plant/wet beneficiation plant. Loaders of capacity of 3.5m³ are used for loading of ore to dumpers. For transport of processed Ore to temporary stacks within the mine, dumpers are used. The sized Iron Ore and Fine are transported to railway sidings at Barsuan, Rengra, Barbil, etc. through Tippers/ dumpers of capacity 10 MT or 40 MT. During the modified mining Scheme period from 2020-21 to 2024-25, the production will be obtained from C-Top Quarry and also from the virgin area for which forest clearance has already been obtained. During the proposed mining operation period 2703876 MT waste will be generated per year. Proposed Dump-D will be surrounded by retaining wall and garland drain. The waste dumps are proposed to be formed by making terraces of height of 8m to 12m, width 8 m to 12 m and ultimate slope of 37° to 40°. The solid waste which will be generated at present will be dumped partly in preselected dump yards. Part of the dump will be used for backfilling of the exhausted quarry also.

7. The Project Proponent submitted that the nearest Villages are Adaghat (Adjacent, N), Sanindpur (0.8km, S), Kolmong (1.9km, NE), Teherai (2.1km, S), Malda (2.6 km, NE) and Koira (5.5 km, SW). Nearest highway is NH-215 (4.1 km, W).

8. The Project Proponent submitted that the water requirement shall be increased from 1327 KLD (Ground water 149 KLD, Surface water 1178 KLD) to 3379 KLD (Ground water 250KLD, Surface water 3129 KLD). Surface water is sourced from Kundra Nalla (Suna Nadi). The project proponent already received NOC from Central Ground Water Authority, Ministry of Water resources, River Development and Ganga Rejuvenation, Govt. of India for withdrawal of 250 KLD of ground water. NOC from CGWA was valid up to 17/03/2021. Application for renewal of NOC for drawal of ground water is submitted on 16/03/2021. The allocation order for 0.48 Cusec of surface water has been received vide letter No.2447 dated 29.01.2020 from the Department of Water Resources, Govt. of Odisha. The PP is regularly paying the water tax as per the demand raised by the Water Resources Dept. 2052 KLD of additional water (100 KLD ground water & 1952 KLD surface water) shall be required. The PP will approach the concerned authority for drawal of additional 1952 KLD of surface water.

9. The Project Proponent submitted that at present a total of 23.16 hectares of area is covered under plantation. Out of this 7.0 ha is under green belt (safety zone and unworked area plantation with 17500 saplings) and 16.6 ha is covered under plantation

on inactive part of Dump. At the end of life of the mine approximately 69.5 hectare of exhausted quarry/stabilized dump will be covered under plantation. 40400 nos. of saplings have been planted on inactive part of existing waste Dump slope over 16.6 ha, near the office & road. Plantation is already done along periphery of tailing pond. The species planted are Karanj (*Millettia Pinnata*), Sishu (*Dalberia, Sishoo*), Mahanim (*Azadirachta Indica*), Glerccidea, Teak (*Tactona Grandis*), Jamun (*Syzgium Chmini*), Amla (*Phyllanthens Emblica*), etc.

10. The Project Proponent submitted that out of total lease area of 147.10Ha, 126.324 Ha is forest land and 20.776 Ha is non-forest land. For the entire Forest area Forest Clearance has been obtained. The Stage-II forest clearance has been obtained in three phases; In first phase, Forest Clearance over 52.742 Ha Forest land has been granted vide letter no.8-135/2003-Fe dated 19.06.2006. In second phase 15.393 ha forest land has been diverted vide MoEF&CC letter no.8- 135/2003-FC (vol.) dated 24.10.2013. In the third phase, the balance 59.606 ha forest land has been accorded Stage-II forest clearance on 26.11.2020 vide letter No. 8-135/2003-FC (VOL.I). PP reported that the following Reserve Forest such as Mendhamaruni RF 0.15 km (W), Siddhmth RF 4.40 km (NE), Baitarani RF 4.50 km (NE), Kathamala RF 4.30 km (SW), Karo RF 4.80 km (NW), Uliburu RF 8.20 km (NW), Lakrhaghat RF 7.20 km (N), Khajurdihi RF 5.30 km (SW), Sarkunda RF 8.90 km (SW), Suna Nadi 0.50 km (SE), Karo River 5.05 km (NW), Teherai Nalla 1.05 km (S) exists within a radius of 10 km from the core zone of the mine lease area. Further, PP submitted that there is no National Park, Wildlife Sanctuaries, Biosphere Reserve, Wildlife Corridor, Tiger/Elephant Reserve etc. within 10 km radius of the mining lease area.

11. The Project Proponent reported that three Schedule I species such as Elephant, Sloth Bear, Godhi reported in Buffer Zone. Wild life conservation plan has already been approved by the PCCF (Wildlife) vide letter no.6640 dt.31.10.2009. As some Schedule-1 species (Elephant, Sloth bear & Godhi) reported in the zone of influence (Buffer zone) and were not included in the approved plan, a revised wildlife conservation plan incorporating the schedule-1 species has been submitted to the DFO, Bonai on dt.17.05.2021 for necessary approval.

12. The Project Proponent submitted that Consent to Operate issued by the State Pollution Control Board, Odisha vide Order no. 2975/IND-I-CON-2252 dated 13.03.2020 for 8.06 MTPA [7.0 MTPA Iron ore (ROM) + dry crushing and screening of 1.06 MTPA of low grade from old dump within the lease area] and is valid up to 31.03.2025. PP also reported that Compliance Report for the period October 2020 to March 2021 submitted to Regional Office Bhubaneswar of MoEF&CC on 28/05/2021 for issue of certification.

13. The Project Proponent submitted the Past Production details from 1986 to 2020-21 duly authenticated by Dy. Director of Mines, Koira vide Memo no. 1974/Mines, dt 03.06.2021. PP also submitted the affidavit bearing 449289 dated 01.06.2021 that 'I hereby undertake to comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & others to the extent applicable to the facts and circumstances of our proposal no: IA/OR/MIN/209994/2021 for increase in production of iron ore in Sanindpur Iron & Bauxite Mines in Villages Oraghat & Sanindpur, Dist- Sundargarh, Odisha'.

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

15. The Project Proponent submitted that One Complaint Case bearing 2(C) C Case No.54/2013 has been filed in the court of SDJM, Bonai, Sundargarh, U/s. Sec.15 of the Environment (Protection) Act, 1986. The said case has been stayed on 28.01.2014 by the Hon'ble High Court of Orissa in CRLMP NO. 38/2014 in Misc. Case No. 20/2014 and the matter is presently sub-judice before the Hon'ble Court.

16. The Project Proponent submitted that the total cost of the project is Rs. 300 Crores. PP reported that at present 522 nos. of people are directly employed & 400 nos. of persons are indirectly employed. After the proposed production enhancement, 864 nos. of people will get direct employment and 600 no. of persons will get indirect employment.

17. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th -15th June, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Terms of Reference of M/s Rungta Sons Pvt. Ltd. Is for grant of Terms of Reference for Sanindpur Iron & Bauxite Mine for Enhancement in production of Iron ore from 8.06 million TPA (7.0 million TPA ROM + dry crushing and screening of low grade ore from old stacks & dumps of 1.06 million TPA) to total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump + 2.8 Million TPA waste) in the mine lease area of 147.10 Ha, located at villages Sanindpur & Oraghat, Tehsil- Koira, District- Sundargarh, Odisha. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project: -

- i. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the Public.
- ii. The Project Proponent needs to carry out a cumulative impact assessment considering all the activities in the study area.
- iii. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
- iv. The Project Proponent shall submit mass balance at the point of excavation, loading point of waste dump and its movement and transportation in the EIA/EMP report.
- v. The Project Proponent shall undertake the peripheral plantation as well as gap plantation within 6 months with the seedling of 6-8 ft height with at least 90% survival rate. An undertaking for the same also needs to be submitted by PP.
- vi. The Project Proponent shall bring out the action plan for upgrading the skills of the local people already employed in the mines.
- vii. The Project Proponent shall demonstrate the requirement of machinery effectively to be used due to enhancement of production.
- viii. The Project Proponent shall allocate separate budget for the concerns of the people in terms of COVID health care facilities, education, and infrastructure and environment protection. The Project Proponent also shall include the budget for the betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets.
- ix. The Project Proponent needs to submit the latest EC compliance report and compliance of NEERI conditions certified by Regional Office, MOEF&CC.
- x. The Project Proponent needs to submit the valid NOC for withdrawal of ground water.

4.8 Proposal for Terms of Reference of M/s Bhushan Power & Steel Limited for Netrabandha Pahar Iron ore Block with peak production capacity of 2.0 Million TPA in mine lease area of 139.223 Ha, located at village Baladihi, Tehsil Koira, District Sundargarh, Odisha - [Proposal No: IA/OR/MIN/70569/2017, IA-J-11015/185/2018-IA-II(M), Consultant: Nil] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

The proposal of M/s Bhushan Power & Steel Ltd. is for Terms of Reference for undertaking EIA studies for Netrabandha Pahar Iron Ore Block with peak production capacity of 2.0 Million TPA in proposed mine lease area of 139.223 Ha located at village Baladihi, Tehsil Koira, District Sundargarh (Odisha). The mine lease area located between Latitude of 21°52' 05.242" N to 21°52' 54.542" N and Longitude of 85°17'10.449" E to 85°17' 56.810" E. The mine lease area falls in the Survey of India Toposheet No. 73 G/5 (open series map F45N5). The PP presented the KML file during the presentation to indicate the location of mine lease on Google Earth/ DSS.

2. M/s Bhushan Power & Steel Ltd has made an online application vide IA/OR/MIN/70569/2017 dated 26.10.2017 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006 for the project mentioned above. 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 Central level. The Ministry informed the PP that, as the carrying capacity study in the area was under process by NEERI hence it was decided that the proposal will be taken up only after finalization of recommendation on NEERI study. Then the proposal was then placed in the EAC meeting held during November 15-16, 2018 wherein PP did not attend the meeting hence Committee deferred the proposal. The proposal was delisted on 05.09.2020 and after request letter dated 03.04.2021 from PP, it was relisted on 03.04.2021. PP again submitted the proposal on 04.06.2021 and the proposal was placed in the EAC meeting held on 9th-15th June, 2021.

3. The proposal for Terms of Reference was considered in the 31st EAC meeting held during 9th -15th June, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Project Proponent has not submitted the valid Letter of Intent (LOI) and proof of submission of application for Forest Clearance. Thus, the Committee was of the view that Letter of Intent (LoI) is the basis for considering the proposal for prescribing the Term of Reference and as the same is in question in the instant case, the proposal could not be considered in present form. Therefore, the Committee therefore, **returned the proposal in present form** and was of the view that Project Proponent may apply afresh application for Terms of Reference (ToR) with the above-mentioned information.

DAY 5 - 15.06.2021

5.1 Proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) dated 6th April 2018 for Nimbahera-Ahirpura Limestone mine (MLA: 403. 1875 ha) with reduction in production capacity (ROM) from 2.0 Million TPA to 0.8949 Million TPA (Limestone: - 0.8609 Million TPA, Sub-grade Mineral: - 0.0050 Million TPA, Inter-burden: - 0.0220 Million TPA and Top Soil: - 0.007 Million TPA) located at village(s): Ahirpura & Murlia, Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by J.K. Cement Works (A Unit of J. K. Cement Ltd.) – [Proposal no: IA/RJ/MIN/210710/2020; File No. J-11015/83/2004-IA.II(M); Consultant: Enkay Enviro Services Pvt. Ltd.] - Environmental Clearance (EC)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Nimbahera-Ahirpura Limestone mine	
Location	Village	Ahirpura & Murlia
	Tehsil/Taluka	Nimbahera
	District	Chittorgarh
	State / UT	Rajasthan
	Latitudes	24°38'10.397" N to 24°41'14.503" N
	Longitudes	74°38'42.003" E to 74°41'02.730" E
	Sol Topo sheet No.	45 L/10
Company Name	J.K. Cement Works	
Accredited Consultant Organisation and its certificate no.	Enkay Enviro Services Pvt Ltd Jaipur and NABET/EIA/2023/RA0183	
KML file	Submitted	
Seismic zone as per IS-1893	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	403. 1875 ha

4. ToR Details

ToR Proposal No.	IA/RJ/MIN/11656/2004
Documents Submitted	Form-I & PFR
EAC meeting date	20 th EAC Meeting held during 19 th – 21 st August 2020
ToR Letter No.	J-11015/83/2004-IA.II (M)
ToR grant Date	07.10.2020
Production capacity	2 MTPA
Applied for reduction in production capacity	2.0 MTPA to 0.8949 MTPA
Reason for reduction	The need for reduction in total excavation (From 2.0 Million TPA to 0.8949 Million TPA) is due to low quality of limestone available.
Total Excavation	0.8949 MTPA
Limestone	0.8609 MTPA
ToP Soil	0.007 MTPA
Subgrade/Mineral Reject	0.0050 MTPA

5. Lease Detail

Mining lease was originally sanctioned in favour of J. K. Cement Works by State Govt. vide order no. F.14 (35) IND/ B/ 65 dated 30.12.1967
The first lease renewal was granted by State Govt. for a period of 10 Years vide order no.P-4(20) khan/group-2/87 dated – 26.04.1989 from -23.02.1988 to 22.02.1998
The Second lease renewal was granted by State Govt. for a period of 20 years vide letter no. P-16 (49) khan/group-1/97 dated – 24.07.2002 from -23.02.1998 to 22.02.2018
As per provisions of MMDR amendment act 2015 the date of expiry of lease period extended up to 31.03.2030 vide state Govt. Order no. AME/ Nimba/CC-1/ML2/1997/ 2028 dated 27.02.2015

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG) for the period 2020-21 to 2024-25	vide Letter No.	584 (4) (3) (1807)/ 2019-RCM-AJM/ 1861
	Date	09.11.2019
Mining Parameters	Quantitative Description	
Bench Height	8 m (maximum)	
Bench Width	13-15 m	
Method of Mining	Opencast mechanized method utilizing Heavy Earth Moving Machinery (HEMM)	
Individual bench slope	80°	

Overall pit slope	45°
Drilling/Blasting	Yes

7. Land Area Breakup

Private land	195.64 ha
Government waste land	131.1175 ha
Grazing Land	57.22 ha
Other Land	19.21 ha
Total Mining lease area (MLA)	403.1875 ha

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

Particulars	Villages	Directions
Nearest highways	NH-56 Ajmer to Neemuch which is passing through the lease and divide the lease into two Blocks, namely Ahirpur and Murlia block. It is in N-W Direction of Ahirpura Block and In N-E Direction of Murlia Block	
	NH-156 Nimbahera to Madhya Pradesh border which is 2.0 Km in SSE direction. Nearest Railway Station is Mangrol which is 1.25 km away in ENE	

9. Water requirement

Total water requirement	20 KLD
Source	Ground Water (1.5 KLD) and Rainwater collected in Existing mine pit (18.5 KLD)
Permission	Renewal of NOC for ground water withdrawal for existing cement plant at Nimbahera and Limestone Mining project at Ahirpura & Murlia Villages, District – Chittorgarh has been obtained from the Office of Central Ground Water Authority, Ministry of Water Resources, River Development & Ganga Rejuvenation vide letter no.214(34)/WR/CGWA/2005-907 dated 14.05.2018. An application for renewal is applied online on dated 12.02.2020.

10. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone		Remarks
Forest Land	No	Certificate authenticated from the Office of Divisional Forest Officer,
National park	No	

Wildlife Sanctuary & Forest	No	Chittorgarh on Toposheet map.
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Schedule-1 species		
Schedule-I species	yes	The authenticated list of flora and fauna has been obtained from the Office of Divisional Forest Officer, Chittorgarh vide letter no. F() survey/DFO/2020-21/4253 dated 01.07.2020.
Additional information	Conservation plan for six schedule –I species i.e. Indian peafowl (Pavocristatus), Panther (Panthreopardusfusca), Rusty Spotted Cat (Prionailurusrubiginosus), Indian Wolf (Canis lupus pallipes), Indian Monitor Lizard (Varanusbengalensis) and Indian Vulture (Gyps indicus/gyps bengalensis) has been approved by the Principal Conservator of Forest, Udaipur and recommendations forwarded to Additional Chief Conservator of Forest Jaipur for formal sanction vide letter no. f 5()forest conservation/ Principal conservator of Forest/ 2020-21/ 5002 dated 24.09.2020 and same proposal has been forwarded to APCCF, Jaipur on 15.10.2020 by DYCF, Jaipur. A budget of 285.30 Lakhs has been earmarked for the same.	

11. Green belt/plantation detail

Proposed area for green belt/plantation till march 2021	Total = 64.47 Ha, out of which 48.02 ha inside the MLA and 16.45 Ha outside the lease area (151815 Trees)
At the end of mine lease	Total = 74.82 ha, out of which 54.77 ha inside the lease area and rest 20.05 ha outside the lease area. (1,77,690 Trees)

12. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of Base Line Data Collection	March 2018 to May 2018
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer

Details of the same was presented and PP submitted that these details are mentioned in chapter 3 of EIA/EMP Report.

13. Public Hearing (PH) Details

Advertisements published for PH	Rajasthan Patrika & Danik Bhaskar published
Date of advertisement	on 02.02.2021 & 01.02.2021.
Date of PH	10.03.2021
Venue	At Project Site, Service Road, Ahirpura

Chaired by	Mr. Ratan Kumar, Additional District Collector, Chittorgarh
	Mr. Sharad Saxena, Regional Officer
	Rajasthan State Pollution Control Board, Chittorgarh.

14. Court case details

Court Case	No
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15. PP submitted the affidavit of No Litigation by Project Proponent on Rs.100/- Non-Judicial stamp paper. Affidavit of legal undertaking by project proponent paper to common cause judgments has been submitted.

16. Details of the EMP and Project Cost:

Activities	Capital Cost (Rs.In Lakhs)	Recurring (Rs. In Lakhs)
Pollution Control Measures	150.0	19.0
Green Belt Development Plan	56.0	3.0
Public Hearing Action Plan (Socio-Economic Development Activities)	213.85	0
Wildlife Conservation Plan	285.35	0
Total cost of EMP	705.2	22.0

17.Details of the project cost and employment

Particulars	Budget (Rs. In Crore)
Total Cost for EMP	7.052
Recurring Cost for EMP	22.0
Project Cost	21.30
Employment	68 persons

18. **Observation of the Committee:** The Committee observed many gaps in the area committed for plantation. Less efforts were observed towards ground water management.

19. **Recommendation of the Committee:** The proposal was considered in the 31st EAC meeting held during 9th – 15th June, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) dated 6th April 2008 for Nimbahera-Ahirpura Limestone mine (MLA: 403. 1875 ha) with reduction in production capacity (ROM) from 2.0 Million TPA to 0.8949 Million TPA (Limestone: - 0.8609 Million TPA, Sub-grade Mineral: - 0.0050 Million TPA, Inter-burden: - 0.0220

Million TPA and Top Soil: - 0.007 Million TPA) located at village(s): Ahirpura & Murlia, Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by J.K. Cement Works (A Unit of J. K. Cement Ltd.) with following specific conditions:

- 1) Plantation must be completed this monsoon to fill the gaps.
- 2) Mining will be restricted to already broken area and NO FRESH AREA WILL BE BROKEN. PP has submitted that already 48 Million Tonnes of Mineral has been Extracted with the E C of 2MT. Therefore, PP should first mine and EXHAUST the Smaller blocks with lesser quantity of ORE within a YEAR with appropriate closure Plan. Thereafter PP can take up Excavation from the Bigger Block with larger Reserves of Ore Instead of Mining simultaneously from All the Blocks.
- 3) PP also should do plantation up to 2 benches of 10 m height each in the pit where water gets accumulated all around the periphery of the pit which must be completed in 2 years.
- 4) Public hearing concerns to be addressed through capital expenditure as per the submission.
- 5) PP shall make attempts to reduce withdrawal of groundwater. Explore the possibility of supplying water to the community from the pit water and pipeline supply should be supported by solar pump. The air quality monitoring, water quality monitoring, noise & vibration will be continued with more focus on impacts near the lease boundary.
- 6) Installation of solar pumps for withdrawal of water collected in the mine pit.

5.2 The proposal for Environmental Clearance for expansion of Quartz & Feldspar Mining (MLA 130 ha, M.L. No. 01/1993) with expansion in production capacity from 12,000 TPA to 6,00,000 TPA (ROM) located at Village Sanwalpura Tavran, Tehsil Shri Madhopur, District Sikar, Rajasthan by M/s Goyal Minerals Grinding Mills. - [Proposal no: IA/RJ/MIN/204157/2017; File No. J-11015/49/2017-IA.II(M); Consultant: Gaurang Environmental Solutions Pvt. Ltd.] - Environmental Clearance (EC)

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	proposal for Environmental Clearance for expansion of Quartz & Feldspar Mining (MLA 130 ha, M.L. No. 01/1993) with expansion in production capacity from 12,000 TPA to 6,00,000 TPA (ROM)	
Location	Village	Sanwalpura Tavran
	Tehsil/Taluka	Shri Madhopur
	District	Sikar
	State / UT	Rajasthan
	Latitudes	27 ^o 56'4.97" N to 27 ^o 56'7.74" N
	Longitudes	75 ^o 89'9.33" E to 75 ^o 90'6.82" E
	Sol Topo sheet No.	45M/14
Company Name	M/s Goyal Minerals Grinding Mills	
Accredited Consultant Organisation and its certificate no.	Gaurang Environmental Solutions Pvt. Ltd. and NABET/ EIA/ 2023/ RA 0192	
KML file	Not submitted	
Seismic zone	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	130 Ha

4. ToR Details

ToR Proposal No.	IA/RJ/MIN/64032/2017
Online application date for Form-I	19.04.2019
Documents Submitted	Form-I & PFR
EAC meeting date	May, 29-30 2017; Oct., 23-24 2017
ToR Letter No.	J-11015/49/2017-IA.II(M)
ToR grant Date	09.11.2017
Production capacity	Expansion from 12,000 TPA to 6,00,000 TPA (ROM)
EIA/EMP uploaded on	21.04.2021

5. Lease Detail

Government of Rajasthan granted mine lease	Letter no.	DMG/Neem/C.C-6/ P.1 (1) 1/93/375
	Date	07.05.1998 for 30 Years
Lease execution date	24.04.1998	
Mine lease validity	23.09.2048	
Additional information	<p>Mine lease was sanctioned in favor of Shri Netram Goyal for mineral Silica Sand, Mica, Quartz, and Feldspar. Shri Net Ram Goyal was expired on 10.06.2015. According to his will signed before death, he nominated three people. They had made a firm named M/s. Goyal Mineral Grinding Mills and made application of mutation of lease by the name of partnership firm. The Additional Director (Mines) has given the order to mutation of lease vide letter no.- ADM/Jai/1/P-4/2011/239 on dated 08.07.2015. The supplementary mutation of lease execution was made on 02.09.2015. The lease validity is renewed from 30 years to 50 years by the date 10.03.2015 due to amendment in MMDR Act, 2015. Mineral Silica Sand & Mica is not mined out till date from the date of mining lease sanctioned.</p>	

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter no.	SME/JP/Mi-Scheme/P- 514/18/203
	Date	08/02/2019
Additional information	Mining Scheme with Progressive Mine Closure Plan is approved from the SME, Jaipur circle, Jaipur	
Mining Parameters	Quantitative Description	
Bench Height	6 m	
Bench Width	Width more than height or 3 times of the width of widest machine	
Method of Mining	Semi-mechanized opencast mining	
Overall pit slope	45°	

Drilling/Blasting	Yes
Details of transportation	Trucks

The Project Proponent submitted that normal water requirement is estimated to be 15 KLD & peak water demand is 20 KLD and the water requirement is full fill through water tankers supply available in nearest habitations, water demand required for plantation & dust supersession is also made by rainy water filled pits after rainy season.

7. Water requirement

Total water requirement	Normal water requirement: 15 KLD & peak water demand: 20 KLD
Source	water tankers supply available in nearest habitations, rainy water filled pits after rainy season

8. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone		Remarks
Forest Land	23.99 Ha	The nearest forests from the mine site are Buchara PF ~ 6.2 km in East, Ganwari PF ~ 6.72 km in West direction & 2.65 km in North direction, Saiwar PF ~ 7.67 km in South direction, and Gadrata PF ~ 4.60 km in North direction.
National park	No	
Wildlife Sanctuary & Forest	No	

Availability of Schedule-I species in study area – Not Available

9. Green belt/plantation details

Proposed area for green belt/plantation	47.2 ha (1000 plants per hectare)
Budget for green plant& plantation till the end of life of mine.	Not submitted
Budget for nursery	Not submitted

10. Baseline detail

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of Base Line Data Collection	December 2017 to February 2018
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter

11. Public Hearing (PH) Details

Advertisement date for PH	17.01.2020
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Date of PH	22/02/2020 at 11.00 am
Venue	Tehsil office Shri Madhopur, District- Sikar, Rajasthan
Chaired by	Presided by the Additional District Magistrate Sikar and initiated by Regional officer, RSPCB, Sikar
Main issues raised during PH	Plantation, Availability of Drinking Water, Construction of Toilets nearby schools.
Budget proposed for addressing issues raised during PH	Rs. 5.5 crore

12. Court case details

Court Case	No
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13. The Project Proponent submitted the District Survey Report which is not certified by the concerned authority.

16. Details of the EMP and Project Cost:

Particulars`	Budget
Capital cost for EMP	8.69 Lacs
Recurring cost for EMP	4.10 Lacs
Project Cost	2 Crores
Employment	82 persons

18. **Recommendation of the Committee:** The project proponent informed the Ministry vide mail dated 10.06.2021, that due to Covid-19 pandemic and subsequent lockdown in the state, PP will not be able to attend the meeting and requested to consider the instant proposal in the forthcoming meeting. The Committee therefore **deferred** the proposal.

5.3 Proposal for Environmental Clearance of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area 1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand by M/s Tata Steel Limited - [Proposal no: IA/JH/MIN/190924/2019; File No. J-11015/104/2011-IA.II (M); Consultant: Vimta Labs Ltd] - Environmental Clearance (EC)

EAC Meeting Details:

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Proposal for Environmental Clearance of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area 1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha	
Location	Village	Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori
	District	West Singhbhum
	State / UT	Jharkhand
	Latitudes	22 ^o 05' N to 22 ^o 10' N
	Longitudes	85 ^o 25' E to 85 ^o 35' E
	Sol Topo sheet No.	73 F/8 & 73 F/12
Company Name	M/s Tata Steel Limited	
Accredited Consultant Organisation and its certificate no.	Vimta Labs Ltd and NABET/EIA/1720/SA 088	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	1230.42 Ha

4. ToR/EC Details

ToR Proposal No.	IA/JH/MIN/123625/2019
Online application date for Form-I	29 th November 2019
Documents Submitted	Form-I & PFR
EAC meeting for grant of ToR	19-20 th Dec., 2020
ToR Letter No.	J-11015/104/2011-IA.II(M)
ToR grant Date	27 th April 2020

Minutes of 31st EAC Meeting held during 9th to 11th and 14th to 15th June 2021

EC proposal No.	IA/JH/MIN/190924/2019
Online application submitted on	30 Jan., 2021
EC meeting for grant of EC	25th Feb., 2021
Production capacity	10 MTPA to 19 MTPA (ROM)
Total Excavation	27 MTPA
Additional information	Increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha

5. ADS Details

The proposal was considered in 28th EAC meeting held during 24th - 26th Feb, 2021 wherein the Committee deferred the proposal due to want of following information:

Sr. No	ADS Sought	Response
1	Action against project proponent under section 19 of Environment (Protection) Act, 1986.	Credible action under Section 19 of EP Act 1986 has been initiated against the project proponent in the court of Chief Judicial Magistrate, Chaibasa. Reference document has submitted by PP.
2	PP needs to incorporate another chapter-13 in the EIA for remediation plan, Natural reserve augmentation plan to manage the ecology loss of environment for total excess production as per the Environmental Clearance granted previously.	Chapter-13 has been prepared by accredited consultant and is enclosed as an Annexure.
3	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the occupational health impacts and also to focus on the dampening effect, noise or voice dampening effect with the revision of the capital cost and recurring cost.	PP has submitted detailed EMP with the ADS reply.
4	PP should also allocate some amount to the sanitation and safe drinking water.	The budgetary provision for the aforesaid activities are estimated to be Rs.1.5 crores. PP has submitted the reply in detail with the ADS reply.

5	PP should also submit the process control, EMP capital investment by assuming the excess waste handling and transportation for excess production.	PP has submitted the reply in detail with the ADS reply.
6	The Project Proponent should revise the Conservation plan as per site specific and to protect the scheduled species. The PP should give the information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wildlife specialist.	The SSWLCP for Noamundi mine has been approved by the PCCF (Wildlife) and Chief Wildlife Warden, GoJ on 28.08.2020 with a total capital outlay of Rs.25.26 crores. PP has submitted the reply in detail with the ADS reply.

17. **Observation of the Committee:** The Committee observed that Environmental monitoring plan was not focusing mainly on air quality, noise and vibration, water quality as well as soil degradation. There were lacuna in the Wildlife conservation plan w.r.t. wildlife conservation rather the focus was on creating infrastructure. Accordingly, the Committee asked the PP to submit the following details:

- 1) Revise the cost of remediation plan, natural resource augmentation plan (NRAP) and community resource augmentation plan (CRAP) to 15 Crores and add 63 lacs to CRAP and repulsion during the violation period i.e. 70 lacs in CRAP.
- 2) EMP measures at the site with cost 85 crores. Details in a tabular form to be submitted. The recurring cost for EMP for the life of mine also to be tabulated.
- 3) Environmental monitoring plan with cost with emphasis on air quality, noise and vibration, water quality as well as soil degradation to be submitted.
- 4) Wildlife conservation plan be augmented with additional points revised in the light of guidance given by EAC during the meeting with more emphasis on wildlife conservation rather than creating infrastructure which cannot be controlled by project proponent.
- 5) The cost of EMP to address public hearing concerns costing 30 crores to be given with capital investments to be done within 3 years which will be monitored by the Ministry.

- 6) The EMP cost should include plantation within the mine lease area whereas plantation outside the mine lease area will be given to NRAP cost.

PP vide email dated 16th June 2021 submitted the following information:

Budget Provisions for Remediation Plan, Natural Resource Augmentation Plan (NRAP) and Community Resource Augmentation Plan (CRAP)

Remediation Plan										
S. No	Component	Proposed Activity	Description	Location	Unit rate	Total Quantity	Total Cost in Rs lakhs	Yr 1	Yr 2	Yr 3
1	Remediation Plan - Air & Noise Environment	Fugitive dust control & Noise attenuation	Installation of Wind-shield cum Noise barrier	Within lease (Bottom Bin Railway siding)	20 lakhs per 100 m boundary	1500 m boundary	300	100	100	100
2	Remediation Plan - Air Environment	Fugitive dust control	Develop green zone along prominent wind direction	Within project area	3 lakhs per hectare	16 ha	80	25	25	30
3	Remediation Plan - Biological Environment	Increase green cover	Rapid forest development (Miyawaki plots)	Within lease	100 lakhs per hectare	1 ha	100	0	50	50
4	Remediation Plan - Water Environment	Surface water run-off management	Construction of check dams, gully plugs & garland drains	Within lease	3 lakhs per check-dam 4000 per cum for Gully plug 100 per mtr for Garland drain	2 check dams; 10 gully plugs; 1000 m garland drain	10	3	3	4
Sub-total (a)							490	128	178	184

Natural Resource Augmentation Plan (NRAP)									
S. No	Proposed Activity	Description	Location	Unit rate	Total Quantity	Total Cost in Rs lakhs	Yr 1	Yr 2	Yr 3
1	Tree Plantation	Development of fruit-bearing trees plot at village area	Hesapi, Dwarsahi	21 lakhs per acre	40 acres	840	280	280	280
2	Avenue plantation	Development of Greenbelt by roadside plantation	Mahudi to Bhangaon, Noamundi to Kutingta, Noamundi to Jamda.	1000 per sapling	15000 mtr	30	10	10	10
3	Rain-water harvesting	Construction and Maintenance of Rain-water harvesting pond structures in villages	Noamundi Basti, Mahudi Meralgara, Deogaon	3.375 lakhs per pond	8 nos. ponds	27	7	7	13
Sub-total (b)						897	297	297	303
Community Resource Augmentation Plan (CRAP)									
S. No	Proposed Activity	Description	Location	Unit rate	Total Quantity	Total Cost in Rs lakhs	Yr 1	Yr 2	Yr 3
1	Provision of solar lights	Installation of solar lights in village areas	Mahudi, Sialjoda, Meralghra, Balijodi	Rs 35000 per light	23 nos.	8	0	4	4
2	Provision of solar-powered bore-well	Installation of solar-powered bore-well in schools	Mahudi, Sialjoda, Meralghra	5 lakhs per solar structure	3 nos.	15	5	5	5
3	Drinking water	Installation of RO plants in surrounding	Mahudi, Noamundi Basti,	5 lakhs per unit	7 nos.	35	10	10	15

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		schools	Sarbil, Bhanggaon, Leping, Jampani						
4	Health facility	Sponsoring Eye-camps in collaboration with Shankar Netralaya	Jaganathpur, Sarbil	7.5 lakhs per camp	2 camps	15	0	7.5	7.5
5	Agriculture	Installation of lift irrigation	Kumirta	10 lakhs per structure	1 nos.	10	0	10	0
6	Agriculture	Construction of check-dams along with feeder canals	Kutingta, Kotgarh	10 lakhs per structure	2 nos.	20	0	10	10
7	Infrastructure development	Construction of Munda /Manki Bhavan	Dukasai, Baljodi, Gundijoda, Meralgara	20 lakhs per structure	4 structures	80	20	30	30
Sub-total (c)						183	35	76.5	71.5
Grand total (a+b+c)						1570	460	551.5	558.5

Total budget provision for:

- | | | |
|------|---------------------------------------|------------------------|
| i. | Remediation Plan: | Rs. 4.90 crores |
| ii. | Natural Resource Augmentation Plan: | Rs. 8.97 crores |
| iii. | Community Resource Augmentation Plan: | Rs.1.83 crores |
| iv. | Grand Total: | Rs 15.70 crores |

Note: Rs.15.7 crores being budgeted towards Remediation Plan, Natural Resource Augmentation Plan (NRAP) and Community Resource Augmentation Plan (CRAP) is inclusive of 3% of the profit accrued due to excess production.

Further, TSL will submit a bank guarantee of Rs.15.70 Crores towards Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan to Jharkhand State Pollution Control Board (JSPCB). Remediation Plan, NRAP and CRAP will be implemented in 3 years.

2).

Budget – PH commitments

S	Sector	Description	Location	Unit rate	Total Quanti	Total Cost	Yr 1	Yr 2	Yr 3
.									

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No					ty	in Rs lakhs			
1	Infrastru cture develop ment	Construction of haat (market sheds)	Bhangaon , Kotgarh, Jetia	5 lakhs/ unit	3 units	15	5	5	5
2		Development of play-grounds for promoting sport activities	Mahudi, Sarbil, Bhangaon	50 lakhs/ ground	3 ground s	150	50	50	50
3		Repair of roads in the surrounding villages	(1) Road from Mohudi village to Sarbil (2) Road from Bobonga petrol pump to Dondiya sahi	43 lakhs/ km	8 kms	344	15 0	194	0
4	Drinking water	Provision of drinking water	Noamundi , Mahudi	Lumpsu m	2 areas	100	0	50	50
5	Skill develop ment	Increase in capacity of ITI College, construction & equipping of related infrastructure	Jagannath pur	Lumpsu m	1 unit	150	0	75	75
6	Agricultu re	Implementation of solar- powered micro lift irrigation projects	Surroundi ng villages	10 lakhs/ unit	5 units	50	0	30	20
7	Educatio n	Construction of Science Lab	Kotgarh, Sialjoda	30 lakhs/u nit	2 nos.	60	60	0	0
8		Provision of lab- on-wheels	Noamundi Block	Lumpsu m	1 no.	60	0	0	60
9		Construction of rooms, hostel, computer lab and auditorium	Noamundi	Lumpsu m	1 unit	750	0	250	500
10		Provision of school bus	Baitarini route	35 lakhs/	2 no.	70	0	35	35

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				bus					
11	Livelihood	Infrastructure support for Mushroom cultivation	Surrounding villages	25000/shed	100 sheds	25	5	10	10
12		Provision of Goatery sheds	Surrounding villages	25000/shed	100 sheds	25	5	10	10
13	Green belt development	Development of fruit orchards at village area	Dongoaposi, Goud Dighiya, Ram Tirath, Katikora, Kutingta	21 lakhs per acre	35 acres	735	250	250	235
14	Health care	Provision of critical care ambulance	Surrounding villages	Lumpsum	2 nos.	36	18	18	0
15	Swachh Bharat	Provision of toilet facility	Noamundi Bazaar, DVC Gate Bus Stand	3.5 lakhs/unit	2 nos.	7	7	0	0
16		Provision of community toilet and bathing complex	Azad Basti, Lakhansahi	20 lakhs/unit	2 nos.	40	0	20	20
17		Providing toilets in schools	5 schools in surrounding villages	12 lakh/unit	5 units	60	12	24	24
18		Augmentation of solid waste management facility	Noamundi Bazar, Kotgarh	Lumpsum	2 units	30	0	15	15
19		Installation of electric crematorium for ensuring cleaner ghats	Dukasai	Lumpsum	1 nos.	500	250	250	0
Total						3207	812	1286	1109

Grand Total of budget towards PH commitments: Rs. 32.07 crores

3)

EMP implementation cost - Capital

S. No	Component	Description	Location	Unit rate	Total Quantity	Total Cost in Rs lakhs	Yr 1	Yr 2	Yr 3
1	Air Environment	Commissioning of mobile water sprinkler (50 KL capacity)	Within lease	Lumps um	1 no	700	700	0	0
2	Air Environment	Dry fog system for each module of Mobile Crushing & Screening Plant	Within lease (processing plants)	25 lakhs/unit	4 nos.	100	25	25	50
3	Air Environment	Installation of DE system at Iron Ore Processing Plant	Within lease	Lumps um	1 no	50	0	0	50
4	Air Environment	Extension of Fixed water sprinkler network	Within lease	30 lakhs/km	5 km	150	50	50	50
5	Air Environment	Installation of Wind-shield around the proposed mobile crushing and screening plant	Within lease	20 lakhs/100 m boundary	2500 m	500	160	160	180
6	Air Environment	Installation of mist cannons	Within lease	10 lakhs/unit	20 nos.	200	60	70	70
7	Air Environment	Black-topping of haul road	Within lease	100 lakhs/km	6.4 km	640	200	200	240
8	Air Environment	Commissioning of mechanical sweeper	Within lease	Lumps um	1 unit	200	0	0	200
9	Air Environment	Continuous online monitoring of HEMM parameters	Within lease	Lumps um	1 unit	300	0	150	150
10	Water Environment	Installation of paste thickener	Within lease	1600 lakhs/unit	2 units	2900	0	1450	1450
11	Water Environment	Installation of thickener(HRT)	Within lease	Lumps um	1 unit	2100	0	0	2100

12	Water Environment	Commissioning of STP	Within lease (Housing area)	Lumpsum	300 KLD	260	60	100	100
13	Environment Laboratory	Upgradation of Environment Laboratory	Within lease	Lumpsum	1 lab	150	100	50	0
14	Social Environment	Construction of Rain water harvesting pond structures in surrounding village	Sarbil, Dudhvila, Padapahar, Kadajamda Gundijora, Iterbaljori	3.5 lakhs per pond	6 ponds	20	0	8	12
15	Social Environment	Provision of Solar lighting in village area	Noamundi Basti	Rs 35000 per unit	60 units	20	0	0	20
16	Social Environment	Maintenance of road in village area	Baitarini route, Deogaoan	45 lakhs/km	4.5 km	200	60	70	70
Total						8490	1415	2333	4742

EMP implementation cost - Recurring

Annual operation expenses (OPEX) for operation and maintenance of EMP pollution control measures would be around Rs. 4.5 crores per annum. For afforestation activities, green-belt development, tailings management, PMCP implementation, the mine is already spending around 7 crores per annum and it will continue in future also. These estimates may escalate year-on-year basis.

Grand total for EMP cost (Capital): Rs.84.9 crores
 Grand total for EMP cost (Recurring): Rs.11.5 crores per annum

4).

Environmental Monitoring Cost

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Sl.No.	Particulars	Frequency	Duration of Sampling	Parameters	Monitoring methodology	Cost (in Rs. Lakhs per annum)
Air Quality						
1	AAQ - 4 locations	Twice in a week	24 hr continuously	PM ₁₀ , PM _{2.5} , SO _x , NO _x	Manual method as per NAAQS 2009	10
2	Continuous ambient air quality monitoring system - 2 stations	Continuous	Real-time	PM ₁₀ , PM _{2.5} , SO _x , NO _x , CO	Automatic (Online) PM10 & PM2.5: Beta attenuation SO2: UV Fluorescence NO _x : Chemiluminescence CO: Non-dispersive Infrared (NDIR)	20
3	Stack monitoring (DG Set)	Once in a quarter	One time	PM ₁₀ , NO _x , SO _x	Isokinetic sampling	2
4	Fugitive dust emission monitoring	Once in a fortnight	24 hr continuously	SPM	Manual method as per CTO guidelines	3
Meteorology						
1	Meteorological data	Daily	Continuous Monitoring	Wind speed, direction, temperature, relative humidity and rainfall	As per IMD guidelines	2
Water and Wastewater Quality						
A Industrial/Domestic waste water						
1	ETP/STP inlet and outlet	Monthly	Grab	pH, TSS, BOD, COD, Oil & grease	As per EP Rules/ CTO guidelines	2
B Water quality in the study area						
1	Ground Water quality	4 times in a year	Grab	pH, TDS, DO, BOD, COD	As per IS:10500	2
2	Ground Water level (well water)	Monthly	Once	Depth	Water levels	1
3	Ground Water level (Piezometric with telemetry)	Continuous	Once	Depth	Water levels	1
4	Surface Water quality	Once in quarter	Grab	pH, TSS, BOD, COD, Oil & grease	As per IS:2296 (Class C)	2

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5	Water flows in nearby streams	Once in a season	Once	Flow-rate	As per IS specifications	1
Noise Levels						
A Industrial Noise Levels/ Ground Vibrations						
1	Noise quality - mine workings, plant	Fortnight	Once	Leq, Noise level in dB(A)	As per EP Rules/ CTO guidelines	1.5
2	Ground Vibration	Per Blast	Once	Peak Particle Velocity (mm/sec)	As per DGMS guidelines	96
B Ambient Noise Levels						
1	Ambient noise at 6 locations around the mine lease area	Fortnight	Once	Leq, Noise level in dB(A)	As per EP Rules/ CTO guidelines	1
Soil Characteristics						
1	Soil quality - core and buffer zone (6 locations)	Half-yearly	Grab	Texture, pH, Electrical Conductivity, Nitrogen, Phosphorous, Potassium, Sulfur, Organic Carbon	As per applicable IS parameters	6
Aquatic Ecology						
1	Aquatic life	Once every season	Grab	Phytoplankton, Zooplankton, Bio-assay, Fishes, etc	As per BSI and ZSI	15
Total						165.5

Grand Total for Environmental Monitoring Cost:
annum

Rs. 1.65 Crores per

18. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for Environmental Clearance of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area 1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18

MTPA to 27 MTPA in the total project area of 1230.42 ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand by M/s Tata Steel Limited along with the following specific conditions:

1. Implement the revised remediation plan, natural resource augmentation plan (NRAP) and community resource augmentation plan (CRAP) which was submitted by PP after the EAC meeting.
2. Implement the environmental monitoring plan with emphasis on air quality, noise and vibration, water quality as well as soil degradation to be submitted.
3. Wildlife conservation plan be augmented with additional points revised in the light of guidance given by EAC during the meeting with more emphasis on wildlife conservation rather than creating infrastructure which cannot be controlled by project proponent.
4. Public hearing concerns must be addressed as committed.
5. The EMP cost should include plantation within the mine lease area whereas plantation outside the mine lease area will be given to NRAP cost.

5.4 Proposal for validity extension of Environmental Clearance granted for Rajashree Limestone Mine No.2 (Mine Lease Area – 400.70 Ha.) with expansion of limestone production capacity from 0.45 MTPA to 1.0 MTPA and installation of 400 TPH crusher by M/s UltraTech Cement Limited (Unit: Birla White) located at Villages: Basni, Tehsil: Merta, District: Nagaur, Rajasthan - [Proposal no: IA/RJ/MIN/213651/2021; File No. J-11015 /15/2015 IA.II (M); Consultant: Wolkem India Limited] - Extension of Validity of Environmental Clearance

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Proposal for validity extension of Environmental Clearance granted for Rajashree Limestone Mine No.2 (Mine Lease Area – 400.70 Ha.) with expansion of limestone production capacity from 0.45 MTPA to 1.0 MTPA and installation of 400 TPH crusher	
Location	Village	Basni

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	Tehsil/Taluka	Merta
	District	Nagaur
	State / UT	Rajasthan
	Latitudes	26°34'58.88" N to 26° 36'32.06" N
	Longitudes	73°47'6.38" E to 73°49'16.02" E
	SoI Topo sheet No.	45F/14
Company Name	M/s UltraTech Cement Limited (Unit: Birla White)	
Accredited Consultant Organisation and its certificate no.	Wolkem India Limited and NABET/EIA/1821/SA103	
KML file	Submitted	
Seismic zone	II	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	400.70 Ha

4. EC Details

EC Proposal No.	IA/RJ/MIN/7497/2005
EAC meeting date	Jan., 22-23 2019 and June, 22-24 2020
EC Letter No.	J-11015 /15/2015 IA.II (M)
EC grant Date	25 th August 2020
Decision of last meeting	The proposal was considered in 18th EAC meeting held during 22-24th June 2020 wherein the Committee recommended the proposal for EC for a period of one-year. The committee observed that even after 30 years of commencement of mining operations, the project proponent was failed to carry out the plantation along the boundary of mining lease area. The committee was of the view that the project authorities were least concerned on the environmental safeguards and the committee expressed dissatisfaction on the implementation of the environmental safeguards. Therefore, the committee suggested to take-up the plantation in the ensuing monsoon (Monsoon of 2020), as it was already set, and to take all the precautionary

	measures for survival of the same. Subsequently, the PP can approach for further clearance along with certification by local DFO or Regional officers of the Ministry on the compliance of the plantation along the boundary
Reason for extension	PP requests to extend the EC for one more year because due to ongoing Covid pandemic situation and subsequent imposed of lockdown, the certified EC compliance report got delay for which site inspection was already done on 25.03.2021.

5. The project proponent reported that initially mining lease (for larger area) was granted in favor of M/s. RSMM Ltd. on 29.10.1986, then transferred to M/s. Indian Rayon Industries Ltd. by the State Govt. vide order no. P.41 / 24 / Mine / Group-2/85 dated 30.06.1987. PP submitted that the first renewal of the lease was granted by the State Govt. for a period of 20 years from 29.10.1996 till 28.10.2016. PP submitted that lease was then transferred to M/s. Grasim Industries Ltd. on 01.07.2002. The PP submitted letter no. सखअ/गोटन/एम.एल.3/95/181 dated 29.08.2018 issued from Directorate of Mines and Geology, Gotan, Govt. of Rajasthan wherein it has mentioned that the State Government has approved the proposal of transfer of mining lease from M/s. Grasim Industries Ltd to M/s. UltraTech Cement Ltd. vide order dated 26.06.2018, deed was executed on 23.08.2018 and registered on 23.08.2018. PP submitted that as per the provision of MMDR Act, 2015, the mining lease has been deemed extended further up to 31st March, 2030. A formal letter to this effect has also been issued in the name of M/s. Grasim Industries Ltd. by the Assistant Mining Engineer, Directorate of Mines and Geology, Gotan, Govt. of Rajasthan, vide letter no. AME/GOTAN/CC.I/M.L. 3/95/135 dated 18.03.2015. The validity of lease period of M/s. Grasim Industries Ltd. has been further extended upto year 2036 vide letter no vide letter no. AME/GOTAN/CC I/ML 3/95/986 issued by Assistant Mining Engineer, Directorate of Mines and Geology, Gotan, Govt. of Rajasthan.

6. Mining plan

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter no.	584(4)(3) (1634)/2015RCM-AJM/ 680
	Date	8th June, 2016
Additional information	Modified Mining Plan has been prepared as per rule 17(3) of MCR, 2016 including Progressive Mine Closure Plan under rule 23B of MCDR, 1988 and has been approved in the name of M/s Ultra Tech Cement Ltd (Unit Birla White) under MCDR	

	1988/MCR, 1960.
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7. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for validity extension of Environmental Clearance for **three years** granted for Rajashree Limestone Mine No.2 (Mine Lease Area – 400.70 Ha.) with expansion of limestone production capacity from 0.45 MTPA to 1.0 MTPA and installation of 400 TPH crusher by M/s UltraTech Cement Limited (Unit: Birla White) located at Villages: Basni, Tehsil: Merta, District: Nagaur, Rajasthan with subject to submission in correction of form 6 on PARIVESH portal and submission of an undertaking to clear all the backlog activities within three years and will demonstrate the efforts being made in the field of environmental restoration.

5.5 Proposal for Amendment in Terms of Reference under Notification S.O. 1530 (E) dated 6th April 2018 of Chorbedi 1 captive limestone mine (MLA: 178.00 ha) with the production capacity of 0.715 MTPA located at village: Chorbedi, Taluka: Lalpur, District: Jamnagar, Gujarat by M/s Shree Digvijay Cement Co. Ltd. [Proposal no. IA/GJ/MIN/213636/2021; File No. J-11015/157/2018-IA.II (M), Consultant: Grass Roots Research and Creation India (P) Ltd.] - Amendment in ToR

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Proposal for Amendment in Terms of Reference under Notification S.O. 1530 (E) dated 6th April 2018 of Chorbedi 1 captive limestone mine (MLA: 178.00 ha) with the production capacity of 0.715 MTPA	
Location	Village	Chorbedi
	Tehsil/Taluka	Lalpur
	District	Jamnagar
	State / UT	Gujarat
	Latitudes	22°5'52.51" to 22°4'37.19" N
	Longitudes	70°0'8.03" to 69°59'47.04"E

	SolTopo sheet No.	F42K4
Company Name	M/s Shree Digvijay Cement Co. Ltd.	
Accredited Consultant Organisation and its certificate no.	Grass Roots Research and Creation India (P) Ltd. and NABET/EIA/1821/SA 0110	
Seismic zone	IV	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	178.0 Ha

4. ToR Details

ToR Proposal No.	IA/GJ/MIN/81570/2018
Application for ToR submitted on	05.10.2018
EAC meeting date	16 th Nov., 2018; 28 th August 2019; 30 th January 2020 and 24 th Dec., 2020
ToR Letter No.	J-11015 /161/2018 IA.II (M)
ToR grant Date	20 th Jan., 2021 under Notification S.O. 1530 (E)
Reason for ToR amendment	Conduction of public consultation in place of public hearing with reference to MoEF&CC O.M. No. 22-4/2020 –IA.III dated 16.02.2021

5. The Project Proponent submitted that the public hearing of the said project site was already conducted on 09.10.2003 and EC was granted via vide letter no. J-11015/50/2003.IA.II (M) dated 7th October, 2005, as per the EIA notification, 1994. PP also submitted that there is no increase in lease area & production quantity, with no change in mining method, mining plan, mineral transportation, water requirement, reclamation plan which are involved in the project. Also, the mining operation has not been discontinued for a period of more than 5 years for the said project. Hence, PP requests to conduct public consultation in place of public hearing in light of the above said office memorandum of the MoEF&CC.

7. **Recommendation of the Committee:** After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for Amendment in Terms of Reference for public consultation in place of fresh public hearing with reference to MoEF&CC O.M. No. 22-4/2020 –IA.III dated 16.02.2021 for

Chorbedi 1 captive limestone mine (MLA: 178.00 ha) under Notification S.O. 1530 (E) dated 6th April 2018 with the production capacity of 0.715 MTPA located at village: Chorbedi, Taluka: Lalpur, District: Jamnagar, Gujarat by M/s Shree Digvijay Cement Co. Ltd.

5.6 Proposal for Amendment in Terms of Reference under Notification S.O. 1530(E) dated 6th April 2018 of Gop 1 Limestone Mine (MLA: 218.53 ha) with the proposed production capacity of 0.22 MTPA located at villages: Gop & Zinavari, Taluka: Jamjodhpur, District: Jamnagar, Gujarat of M/s Shree Digvijay Cement Co. Ltd. [Proposal no. IA/GJ/MIN/213631/2021; File No. J-11015/161/2018-IA.II(M); Consultant: Grass Roots Research and Creation India (P) Ltd.]- Amendment in ToR

EAC Meeting Details:

EAC meeting	31 st EAC
Date of Meeting	9 th to 11 th June and 14 th to 15 th June

2. Project details:

Name of the Project	Amendment in Terms of Reference under Notification S.O. 1530(E) dated 6th April 2018 of Gop 1 Limestone Mine (MLA: 218.53 ha) with the proposed production capacity of 0.22 MTPA	
Location	Village	Gop & Zinavari
	Tehsil/Taluka	Jamjodhpur
	District	Jamnagar
	State / UT	Gujarat
	Latitudes	22°14.7" to 22°01'54.4" N
	Longitudes	69°54'54.3" to 69°55'56.8"E
	SolTopo sheet No.	50/p and 17/p
Company Name	M/s Shree Digvijay Cement Co. Ltd.	
Accredited Consultant Organisation and its certificate no.	Grass Roots Research and Creation India (P) Ltd. and NABET/EIA/1821/SA 0110	
Seismic zone	IV	

3. Category details:

Category of the project	A
Provisions	EIA Notification dated 14 th September, 2006
Mining lease Area (MLA) (in ha.)	218.53 Ha

4. ToR Details

ToR Proposal No.	IA/GJ/MIN/81502/2018
Application for ToR submitted on	05.10.2018
EAC meeting date	15-16 th Nov., 2018; 27- 28 th August 2019; 26-28 th Oct., 2020
ToR Letter No.	J-11015 /157/2018 IA.II (M)
ToR grant Date	13 th Nov., 2020 under Notification S.O. 1530 (E)
Reason for ToR amendment	Conduction of public consultation in place of public hearing with reference to MoEF&CC O.M. No. 22-4/2020 –IA.III dated 16.02.2021

5. The Project Proponent submitted that the public hearing of the said project site was already conducted on 09.10.2003 and EC was granted via vide letter no. J-11015/47/2003.IA.II (M) dated 7th October, 2005, as per the EIA notification, 1994. PP also submitted that there is no increase in lease area & production quantity, with no change in mining method, mining plan, mineral transportation, water requirement, reclamation plan which are involved in the project. Also, the mining operation has not been discontinued for a period of more than 5 years for the said project. Hence, PP requests to conduct public consultation in place of public hearing in light of the above said office memorandum of the MoEF&CC.

6. Recommendation of the Committee: After detailed deliberations made by the Project Proponent and the Consultant, The Committee observed that the proposal attracts the violation as per the directions of Hon'ble Supreme Court order dated 2.08.2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors. The Committee did not accept the request of the PP and directed to conduct the fresh Public Hearing for the instant proposal. Therefore, the Committee **returned the proposal in present form.**

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	9 th June 2021	10 th June 2021	11 th June 2021	14 th June 2021	15 th June 2021
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	Yes	Yes	Yes	Yes	Yes
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	Yes	Yes	Yes	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block – B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes	Yes	Yes	Yes
6	Dr. (Ms.) Asha Rajvanshi	Wildlife Institute of Inida, Chandrabani, Dehradun- 248001	Member	No	No	No	No	No
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes	Yes	Yes	Yes

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8	Dr. A.K. Malhotra	C-6, SubhavnaNiketan, Road No. 41, Pitampura, Delhi-110034	Member	Yes	Yes	Yes	Yes	Yes
9	Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	Yes	Yes	Yes	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	Yes	Yes	Yes	Yes
11	Prof. Mukesh Khare	Department of Civil Engineering, IIT, Delhi	Member	Yes	Yes	Yes	Yes	Yes
12	Mr. V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No	No	No	No
13	Sh. Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	No	No	No	No
14	Sh. Aftab Ahmend	Representative of DGMS, DMS, Room No. 201-203, II Floor, B- Block, CGO-II,, Hapur Rd, Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh 201002	Member	No	No	No	No	No

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15.	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira ParyawaranBhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary	Yes	Yes	Yes	Yes	Yes
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