

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

SUMMARY RECORD OF 7TH MEETING OF THE COMMITTEE OF THE RE-CONSTITUTION OF EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 7th meeting of the Re-constitution of Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 5th - 6th December, 2022 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 6th EAC meeting held during 9th - 11th November, 2022:

The minutes of the 6th EAC meeting held during 9th - 11th November, 2022 were placed before the members of the Committee. The Member Secretary informed the EAC regarding the project proponent's letter dated 17th November, 2022 and accordingly the following corrigendum was made by EAC to replace para 5 (iii), Clause 3 of the specific EC conditions only;

- (i) The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No.114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (ii) State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid as per point no. (iii) by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (iii) The Project Proponent needs to submit the Bank guarantee of Rs. 92,61,18,411.3/- to the Office of District Collector/District Mining Office (DMO)/State Authorities as per the Show cause notice dated 07.07.2018 issued by the District Mining Office (DMO), Balodabazar w.r.t Hon'ble Supreme Court order dated 02/08/2017 in Writ Petition (Civil) No.114 of 2014 in the matter of Common Cause versus Union of India and Ors. In the event of illegal mining/violation established by any competent authority/court of Law, the said bank guarantee shall be forfeited.

- (iv) The EC shall be issued only after submission of proof of bank guarantee by the concerned State Department.
- (v) Environmental Clearance (EC) for the expansion capacity shall not be functional till the settlement i.e acknowledgment of submission of Bank guarantee by the Office of District Collectorate / District Mining Office of Show Cause notice dated 07.07.2018 issued by District Mining Office (DMO), Balodabazar. Further, the State Pollution Control Board shall not issue the Consent to Operate (CTO) for expansion in production capacity i.e., from 4.2 Million TPA to 10.0 Million TPA till the said settlement of Show Cause notice dated 07.07.2018.
- (vi) The bank guarantee shall be renewed from time to time till the finalization of show cause notice dated 7.07.2018.

Day 1: 05.12.2022 (Monday)

1.1 Guali Iron Ore Mine of M/s Odisha Mining Corporation Limited for mining of Iron Ore for expansion in production capacity of 5.0 MTPA to 30.0 MTPA with total excavation of 37.67 Million TPA [Saleable Iron ore: 27.44 Million TPA, Mineral rejects: 2.56 Million TPA, Waste: 7.48 Million TPA, Topsoil: 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant for the restricted working area of 163.575 Ha (Revenue land: 26.158 Ha and diverted forest area: 137.417 Ha) out of total mine lease area of 358.258 Ha, located at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha – [File No. J-11015/1155/2007-IA.II(M), Proposal No. IA/OR/MIN/7224/2008; Consultant: M/s MECON Limited] - Environmental Clearance (Auction mine)

The proposal of M/s Odisha Mining Corporation Limited is for mining of Iron ore in Guali Iron ore mine for expansion in production capacity of 5.0 MTPA to 30.0 MTPA with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste 7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant for the restricted working area of 163.575 Ha (Revenue land: 26.158 Ha and diverted forest area: 137.417 Ha) out of total mine lease area of 358.258 Ha, located at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 21°59'21.99060"N to 22°00'1.98397"N and Longitude 85°17'02.37474" to 85°18'59.14042"E. The mine lease area falls under the Survey of India Topo sheet No: F45H8 & F45N5 (73F/8 & 73G/5) and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at the Central level.
- iii. The proposal was earlier considered in the 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. The Member Secretary informed the Committee that the Project Proponent vide email dated 07.03.2022 has sought deferment of the proposal stating that due to technical reasons, M/s Odisha Mining Corporation Ltd requested to defer the proposal scheduled in 47th EAC Meeting. Therefore, as per the request of the Project Proponent, the Committee deferred the proposal. Then, the Project Proponent vide letter dated 27.10.2022 requested the Ministry to enlist the proposal for consideration of EC. The Ministry again examined the proposal and sought additional details on 31.10.2022 and the Project Proponent submitted the information on 05.11.2022 in Parivesh portal and accordingly the proposal was reconsidered in the 7th EAC (Non-Coal Mining) meeting held during 5th - 6th December, 2022.
- iv. Details of previous Environmental Clearance (EC):
 - a. The Project Proponent submitted that the previous lessee (Shri Ramesh Prasad Sao) initially obtained Environmental Clearance vide Lr No. J-11015/8/2007-IA.II(M) dated 30.11.2007 for production of 1.8 MTPA Iron ore.
 - b. Then, the previous lessee obtained EC vide Lr J-11015/1155/2007-IA-II(M) dated 22nd June, 2009 for expansion of iron ore from production from 1.8 MTPA to 5.7 MTPA iron ore by opencast mechanized method involving total mine lease area of 365.026ha.

v. The details of the Terms of Reference (ToR) are furnished as below:

Date of application	Proposal No	Consideration	Details	Date of accord
09.04.2021	IA/OR/MIN/208682/2021	9 th - 15 th June, 2021 & 13 th to 16 th July 2021	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	04.08.2021

			per RoR)] with total excavation of 37.67 Million TPA [Saleable Iron ore - 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste-7.48 Million TPA, Topsoil-0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant along with the recommendation made by NEERI in its carrying capacity study for Odisha.	
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vi. Details of Mine lease:

- i. The Project Proponent submitted that the initially mine lease was executed in favour of M/s M. H. Rahman on 21.05.1963 for a period of 20 years with effect from 27.06.1953 to 26.06.1973.
- ii. Subsequently, the aforesaid mine lease was renewed by the State Government for a further period of 20 years (27.06.1973 to 26.06.1993) and the lease was executed on 23.06.1980.
- iii. During the 1st renewal period, the State Government vide Lr No.12437/MG dated 22.10.1986 have transferred and executed the lease in favour of Shri Ramesh Prasad Sao on 15.11.1986.
- iv. Prior to expiry of the 1st renewal period, Shri R. P. Sao applied to the State Govt. for 2nd renewal of mine lease vide Form-D No. 479 dt 10.02.1992 for a period of 20 years (27.06.1993 to 26.06.2013). Thereafter, Shri R.P. Sao filed the 2nd renewal application vide Form-D No.933 dt 25.04.2012 for a period of 20 years from 27.06.2013 to 26.06.2033.
- v. The file was processed by the State Government as per Section 8 (A) of MM (D & R) Amendment Act, 2015 and the period of mining lease was extended up to 31.03.2020 and accordingly supplementary lease deed executed on 23.05.2015. The mining operation was under suspension from 27.06.2013 to 13.04.2018 and then resumed the mining operation as

per the Hon'ble Supreme Court order dt 09.04.2018 and continued till 31.03.2020. Mine lease got expired on 31.03.2020.

- vi. The mine was put under auction by the State Government and the successful bidder could not comply the terms and conditions as a result of which the State Government recommended for consideration and allocation through reservation (section 17A of MMDR Act) route or any other appropriate provision in favour of M/s Odisha Mining Corporation Ltd (A Government Company) for a specified period of time to meet the demands and where most of the auctioned mines are unable to start the mine operation. Further, in pursuance to the order No.4/1/2020-M.VI dated 05.01.2021 issued by the Central Government, Guali Iron Ore Block in Keonjhar district of Odisha has been reserved in favour of Odisha Mining Corporation Limited for a period of 10 years.

vii. Details of Auction mine lease:

S.no	Grant of PI/mine lease/ Order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Reservation of Guali Iron Ore vide No 283/SM, Bhubaneswar	11.01.2021	Iron Ore	10 years	Govt of Odisha	358.258 ha (as per DGPS)/ 365.026 ha (as per RoR)
2	Letter of Intent for grant of mining lease vide 312/ IV(AB) SM-01/ 2021/SM, Bhubaneswar	11.01.2021	Iron Ore	10 years	Govt of Odisha	358.258 ha (as per DGPS)/ 365.026 ha (as per RoR)
3	Vesting Order No 324/IV(AB) SM-01/2021/ SM and vesting order is valid for a period of 2 years from the date of execution of the lease deed or till the date of getting fresh approvals, clearances, licenses, permits and the like whichever is	11.01.2021	Iron Ore	10 years	Govt of Odisha	358.258 ha (as per DGPS)/ 365.026 ha (as per RoR)

	earlier.					
4	Grant of mining lease vide order no 358/SM	12.01.2021	Iron Ore	10 years	Govt of Odisha	358.258 ha (as per DGPS)/ 365.026 ha (as per RoR)

viii. 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.	12.01.2021	11.01.2031	Lease deed executed on 12.01.2021 between the Governor of Odisha and M/s Odisha Mining Corporation vide No: IN-OD01565272991688T for a period of 10 years.

vii. Land Use/Land Cover of the Mine lease area:

Revenue Forest	301.443 ha
Reserve Forest	30.657 ha
Total Forest Land	332.100 ha (Stage II FC available for 137.417 ha) 194.683 ha (Non-Diverted Forest Area)
Private land	15.932 ha
Government land	10.226 ha
Non-Forest land	26.158 ha
Total Mining lease area (MLA)	358.258 ha
Private land for crusher, workshop & other infrastructure outside the MLA	Nil

viii. Mining Plan:

Approval of Mining Plan with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MP/A/38-ORI/BHU/2020-21
	Date	19.03.2021
	Mineral	Iron Ore
	Mine lease area	358.258 ha (as per DGPS)/365.026 ha (as per RoR)
	Validity	2020-21 to 2024-25
Mining Parameters	Quantitative Description	
Method of Mining	Fully Mechanized Opencast mine	
Reserves (As on 12.01.2021)	Geological Reserves: 196.707 Million Tonnes Mineable Reserves: 160.136 Million Tonnes	
Life of mine	~8 Years (Likely to be revised with further exploration, if any)	

Bench Height	15 m
Bench Width	30 m
Individual bench slope	80°
Overall pit slope	45°
Drilling/Blasting	DTH drill of 160 mm dia Blasting by using NONEL
RoM output size	CLO (+10-40/+5-18mm), fines (-10mm) and oversize (+40 mm)
Mineral Beneficiation	No beneficiation plant proposed
Crushing/Screening	PP reported that additional crushing & screening facilities will be installed.
Transportation details	<p>i. 30% of total iron ore: By trucks via. adjacent NH-520 (old NH-215) to nearby buyer's/railway sidings.</p> <p>ii. 70% of total iron ore: Through standalone Satellite Grinding Unit (with pumping facility and slurry pipeline) to be established by single or multiple parties.</p> <p>As per SOTM, it is proposed to transport 9.0 MTPA iron ore through road and the balance 21.0 MTPA will be transported to potential users for converting it to slurry.</p>
Dumpers capacity	Dumpers required for 30 MTPA: Capacity – 240 tonnes
Topsoil/Waste disposal	PP reported that about ~9.5 Mm ³ waste to be generated. ~30% (2.86 Mm ³) to be re-used for civil works for setting up new mineral processing plant & construction of internal roads. Balance will be dumped in 2 external dumps within ML. About ~22.06 Mt of mineral rejects, to be blended with high quality iron ore & sold. About ~0.514 Mt of top soil to be generated & concurrently used in plantation.

ix. Water requirement:

Total water requirement (Proposed)	2229 KLD	Haul Road Dust Suppression	1479 KLD
	Ground water: 320m ³ /day Surface Water: 1180 m ³ /day Dewatering from mine during mine intersection: 729 m ³ /day and Recycled water: 245 m ³ /day	Dry fog	410 KLD
		Plantation (Recycled water)	195 KLD
		Domestic and Drinking Purpose	320 KLD
		Wheel wash facility	50 KLD

		ETP	20 KLD
Source of water	Borewell water, Surface water from river Karo and recycled mine discharge water		
NOC from CGWA (Groundwater)	PP submitted that the previous lessee obtained NOC for drawl of ground water for 320 cum/day vide No. 21-4(93) SER/CGWA/2008/1964 dt 09.10.2018 which is valid up to 16.09.2023.		
Transfer of NOC	PP vide Lr no 2742/OMC/F&E/2021 dt 18.02.2021 requested CGWA for transfer of NOC for drawl of ground water over 320 m ³ /day in the name of M/s Odisha Mining Corporation Limited. CGWA has accepted the request and as per the instructions, PP deposited the fees to CGWA for transfer of NOC.		
Permission of Surface water withdrawal	PP vide Lr No: 1946OMC/PROJECT/2022 dated 07.02.2022 requested the Engineer in Chief, Water Resources Department to grant permission for surface water withdrawal of 1180 KLD from river Karo.		
Ground water intersection	PP reported that the ground water table lies at 490m AMSL and the mine working will go upto 446 m AMSL. The water table will be likely intersected during the 5 th year of the plan period. PP vide their Lr no. 1796/OMC/F&E/2022 dated 02.02.2022 requested the Regional Director, Central Ground Water Board to process the duly submitted application for permission to dewater groundwater for mining.		

x. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Direction
Village	Balisahi Village	~ 0.24 Km, W
Town	Barbil Town	~14 km, NE
Highway	NH 520 (Old NH 215)	0.05 km, SE
Railway Station	Barbil	~22 km, NE
Interstate Boundary	Odisha-Jharkhand	~4.5 km, NW
Water Body	TopadihNala	Flowing through ML
	LakhraghatNala	Touching northern side of ML
	Karo River	~0.5 km, W
Permission for diversion of TopadihNala	PP their Lr No 1432OMC/F&E/2022 dated 25.01.2022 requested the Engineer in Chief, Water Resources Department for diversion of TopadihNala as recommended by Indian Institute of Technology (Indian School of Mines), Dhanbad.	

- xi. The Project Proponent submitted that the total mine lease area is 358.258 ha, out of which forest land is 332.100 ha and non-forest land is 26.158 ha. PP submitted that Stage II FC accorded by MoE&F vide No F.No. 8-96/96-FC dated 14th January 2005 for diversion of 42.417 ha of forest land for renewal of Guali Iron ore mine and MoE&F vide No F.No-8-96/96-FC (Pt) dated 6th September 2011 for diversion of 95.0 Ha of forest land in addition to 42.417 ha of broken up revenue forest land already diverted in favour of M/s Shri R.P Sao. Thus, the total forest land for which Stage II FC available is 137.417 Ha. PP applied for diversion of forest land for balance area of 194.683 ha vide

proposal no FP/OR/MIN/140713/2021 dated 12.04.2021 in the name of M/s Odisha Mining Corporation Limited and at present the forest diversion proposal is under scrutiny by PCCF (Nodal). Certificate over 95.00 ha under Schedule Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 has been issued by the Collector, Keonjhar vide letter No.2223/Rev dt 16.11.2010 prior to grant of Stage – II Forest Clearance. The process to obtain Certificate under Schedule Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 over total forest land is under progress. PP also reported that following Reserve Forest such as Sidhamath RF (inside lease area), Lakraghat RF (Near to the Lease boundary), Karo RF – 2.2 KM (W), Uliburu RF – 1.0 KM (NW), Tholkabad RF – 4.8 KM (NW), Mendhamurani RF – 3.5 KM (SW), Baitarani RF – 7.3 KM (SE), Kathamala RF – 7.5 KM (SW) and Torha RF – 8.0 KM (NW) exists within 10km radius of the study area. Further, PP submitted that Proposed Elephant corridor Karo-Karampada is located at distance of 3.2 km, NW from the mine lease area.

- xii. The Project Proponent reported that the Schedule-I species such as Indian Elephant & Sloth Bear are found in the study area. PP submitted the list of flora and fauna in the core and buffer zone authenticated from the Office of the Divisional Forest Officer, Keonjhar Division vide Lr No 8040/6E-Mining-16/2021, Keonjhar dated 13.11.2021 in favour of M/s Odisha Mining Corporation Limited. PP also submitted the Approval of Site-Specific Wildlife Conservation Plan and authentication of location map approved by the Principal CCF (WL) & Chief Wildlife Warden, Orissa vide Lr 321/1WL-C-FC-385/08 dated 17.01.2009 for Rs.277.00 lakhs for activities both inside and outside the project area in favour of M/s Shri R.P Sao. Further, the PP submitted that as per the guidelines of State Forest Department, Govt. of Odisha, the Site-Specific Wildlife Conservation Plan is under preparation by DFO, Keonjhar for onward submission to PCCF(WL) & CWLW, Odisha for its approval.
- xiii. The Project Proponent reported that the total area proposed for greenbelt/plantation will be 71.18 ha. PP also reported that at present, 11.383 ha within the lease area have been covered by plantations and additionally an area of 4.35 ha will be developed through gap plantation within safety zone area during the plan period 2021-22 to 2025-26 with 10,875 no.s of saplings. PP submitted that 56.90 ha of external dumps and 19.19 ha of mineral storage area will also be afforested. PP earmarked a budget of Rs 6.95 Cr approx. towards development of green plant & plantation till the end of life of mine. PP also submitted an undertaking that the the peripheral plantation as well as gap plantation will be completed within 6 months with the seedling of 6-8ft. height with at least 90% survival rate and also the bench plantation will

be carried out at least up to 3 benches during mining and up to the water level of the abandoned benches proposed for creation of water bodies.

xiv. Baseline data:

Period	March to May, 2021 - Summer Season				
AAQ parameters at 8 locations	Pollutant	Min, µg/m ³	Max, µg/m ³	98 %ile, µg/m ³	Standard, µg/m ³
	PM2.5	27	56	45	60
	PM10	67	90	87	100
	SO2	6.4	8.9	8.7	80
	NOx	17.9	25.0	24.4	80
AAQ modelling (Incremental GLC)	Pollutant	Baseline Concentration, µg/m ³	Incremental Concentration, µg/m ³	Total GLC, µg/m ³	Standard
	PM2.5	48	4.8	52.8	60
	PM10	87	9.6	96.6	100
	SO2	8.7	0.5	0.5	80
	NOx	24.4	1.7	1.7	80
Noise level at 8 locations	Day Time: 38.4 to 68.4 Leq dB (A) Night Time: 34.7 to 52.6 Leq dB (A)				
Ground water quality at 5 locations	PP submitted that the pH found in the range of 6.59-7.31. pH in case of GW1, GW2 are slightly towards acidic side. Total Dissolved solids 137-150 mg/l; Total Hardness: 52.6-55.6 mg/l; Total Alkalinity: 36.3-38.5 mg/l and Sulphate: 30.9- 39.21 mg/l. Metals specifically Iron was found in range of 0.016-0.214 mg/L and other toxic substances are all within norms.				
Surface water quality at 7 locations	PP submitted that the trend of surface water quality shows that pH is in range of 7.19-7.48, Electrical conductivity 394-452µS/cm, DO is in 5.8-6.2 mg/L, BOD 2.1-2.7 mg/l, SAR is in range of 0.64-1.05 whereas Boron and Free ammonia are BDL that is <0.05mg/l. The result shows that all the parameters meet the drinking water criteria in all samples except for colour though exceeding acceptable limit but is within permissible limit. The water from the above sampling locations may be used for drinking purpose only after proper treatment.				
Soil quality at 8 locations	PP submitted that the pH is in range of 5.28-5.87 and moderately acidic in nature. Colour and texture of the soil found to be reddish brown/dark brown and sandy loam/loam respectively which shows well-drained conditions. The water holding capacity and bulk density are in the range of 31.92% - 35.62% and 1.19-1.35 gm/cc respectively. Nitrogen in range of 261-582.4 kg/ha with lower ratings in waste (S1) and barren land (S5). The available phosphorous is from 22.4-51.5 with medium to higher ratings. Available potassium in general is low in all the soil samples analyzed except for S4 and S8 (134.4 kg/ha) wherein it is medium rating. The organic carbons are in range of 0.40-1.06 with higher ratings noted in agricultural field.				
Traffic study	PP submitted that the Traffic Study was carried by CSIR-Central Road Research Institute (CRRI), New Delhi in the month of September, 2021. In the JodaBarbil about 34 mines are in operational				

	stage where as in the study road network area about 16 mines are in operational and the operational capacity of these mines are about 99.29 MTPA for the base Year (2021) and the 155.85 MTPA for the horizon year (2031). This leads to an additional truck traffic on some of the road links and causes traffic congestion on road network. Turning movement traffic surveys were carried out on normal working days of the week for a 24-hour period from 9:00 AM to 9:00 AM at identified 18 intersections was carried out. Based on the study findings, it was recommended to expand the Guali Iron ore mine from the 5.7 MTPA (Current Capacity) to 30 MTPA by considering 70% of the slurry transport and 30% by road transport. Also recommended to provided truck parking at three locations near the Rugudi Intersection, Bhadrasahi Intersection and Kalmong Intersection.
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xv. Public Hearing (PH) Details:

Advertisement for PH with date	(i) The Sunday Times (English daily newspaper), dtd. 21.11.2021 & (ii) The Prameya (Odiya daily newspaper), dtd. 21.11.2021
Date of PH	22.12.2021
Venue	Topadihi (GP Loidapada, PS Rugudihi, Khata No. 126, Plot No. 100, 101, 104)
Chaired by	ADM, Keonjhar
Main issues raised during PH	Skill development training, employment, provision of medical and ambulance facility, appointment of doctor, drinking water facility, educational facilities, bus facility for school children, repair of road, provision of street light, rejuvenation of existing nallah, formation of self-help groups, development of plantation, ground vibration due to blasting etc.,
Budget proposed for addressing issues raised during PH	Rs. 24.45 crores.

xvi. CTE/CTO, Previous EC compliance and past production details:

Consent to Establish (CTE)	Granted by State Pollution Control Board, Odisha vide letter No. 5547/IND-II-NOC-5085 dt 31.03.2009
Consent to Operate (CTO)	Granted by State Pollution Control Board, Odisha vide letter No. 18282/IND-I-CON-4427 dt 17.11.2021 for production of 5.7 MTPA with 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant and is valid upto 31.03.2022 in favour of M/s Odisha Mining Corporation and was valid upto 31.03.2022.
Certified EC compliance report for the EC dated 22.06.2009	Issued by Ministry's Integrated Regional Office, Bhubaneswar vide 101-390/21/EPE dated

<p>Examination of Action Taken Report by Ministry's Integrated Regional Office</p>	<p>08.12.2021. Site visit was carried out by IRO on 24.11.2021. During monitoring certain non-compliances/partial complied conditions were observed and the same was communicated to the PP for compliance vide letter dated 20.12.2021 and 08.12.2021. IRO Bhubaneswar vide Lr No. 101-360/21/EPE dated 28.01.2022 examined the action taken report submitted by PP vide Lr No. 92/OMC/Guali/2022 dated 19.01.2022 wherein the IRO noted that the compliance of the EC conditions is partially complied w.r.t construction of sewage treatment plant of 250KLD, roof top rainwater harvesting structures at all office and residential buildings in and around mine premises, oil and grease separation unit, provision of blacktop road and cement concrete road at the entrance of the mine.</p>
<p>Certified past production No mining activity beyond mine lease area</p>	<p>Letter issued by the Joint Director of Mines, Joda, vide Memo no. 6578/Mines, dated 06.11.2021 for the period July, 1973 to 2020-21 and vide Memo No. 4790/Mines, dated 03.11.2022 for the period July, 1973 to 2021-22. Letter issued from the Office of the Joint Director of Mines, Joda vide Lr No. 6743/Mines, dated 17.11.2021 stating that the present lessee M/s OMC Limited is confined the mining activity within the granted and executed lease hold area and no violation detected.</p>
<p>Compliance to Common Cause Judgement of Hon'ble Supreme Court order dated 02.08.2017</p>	<p>PP submitted that the previous lessee M/s. R.P. Sao, had deposited a total of Rs. 11,61,20,00,000/- towards the compensation amount in the designated bank account on 29.03.2018 for production of iron ore without E.C/beyond the EC during the years 2000-01 to 2010-11 as per the letter issued from the Office of the Deputy Director of Mines, Joda Circle vide Lr No.4098/Mines, dated 02.09.2017. The deposited amount also includes additional amount paid as interest on the balance amount which could not be deposited within the due date of 31.12.2017. PP also submitted that the compensation amount of Rs. 29,39,18,019/- as demanded towards violation of Mine Plan / CTO from the Office of the Deputy Director of Mines, Joda Circle vide Lr No. 5254/Mines, dated 23.10.2017 has not yet been deposited by the previous lessee. Further, PP submitted that the letter from the</p>

	<p>Office of the Deputy Director Mines Joda vide Lr No. 4791/Mines, dt 03.11.2022 stating that in pursuance to the judgment dated 02.08.2017 of the Hon'ble Supreme Court of India in the matter of Common Cause vs Union of India and others, the ex-lessee Sri R.P Rao in respect of Guali Iron Ore mines has been demanded compensation u/s 21(5) of MMDR Act, 1957 for production of mineral without EC/MP/CTO and the ex-lessee has paid the demanded compensation amount towards EC violation amounting to Rs 1126,85,17,855/- The compensation amount of Rs. 29,39,18,019/- as demanded towards violation of Mine Plan / CTO from the Office of the Deputy Director of Mines, Joda Circle vide Lr No. 5254/Mines, dated 23.10.2017 has not yet been deposited by the ex-lessee. But the ex-lessee preferred to file Revision Application before the Mines Tribunal, Govt. of India, Ministry of Mines, vide Revision Application No.22/84/2017/RC-1 and the R.A vide order dated 21.12.2018 have remanded back to the State Government to hear the matter afresh and pass a detailed and reasoned order. The Govt have disposed off the case vide proceedings no. 8935/SM, dt 17.09.2022 and ordered to realise the demanded amount of compensation. On the basis of the above order, a demand notice was issued from this office vide Lr No. 4169/Mines, dt 26.09.2022 for the amount of Rs. 29,39,18,019/-, which is not yet paid by the ex-lessee.</p>
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- xvii. The Project Proponent submitted that the instant proposal involves land acquisition over an area of 27.66 ha in the village Topadihi, Laidapada and Guali. Rehabilitation & Resettlement (R&R) of 235 households from village Guali, Loidapada and Topadihi will be undertaken. Moreover, 3 Pvt. Companies viz. (i) Thriveni Earth Movers Pvt. Ltd., (ii) Tarini Movers and Transport Pvt. Ltd. And (iii) Sushant Mineral Pvt. Ltd.) will also be covered under R&R Scheme. There are 99 nos. Project Displaced Families (PDFs) and 136 nos. Project Affected Families (PAFs). PP allocated a tentative budget of Rs. 30.23 crores towards R&R. PP submitted the letter from the Dept. of Steel & Mines, Govt. of Odisha vide letter 614/SM, Bhubaneswar dated 27.01.2022 to undertake mining operation in the private lands existing in Guali mining lease on the strength of the vested surface right and in due adherence to the applicable provisions of Rule 52 & Rule 53 of Mineral Concession Rules, 2016.

xviii. Court case details:

Court Case	<p>PP submitted that the recovery of the compensation amount of Rs. 29,39,18,019.00 against violation of Mining Plan/CTO raised by DDM, Joda has been stayed by the Revision Authority, Ministry of Mines, Govt. of India vide RA. No. 22/84/2017/RC-1 and RA vide order dated 21.12.2018 have remanded back to the State Govt. to hear the matter afresh and pass a detailed and reasoned order. The Govt have disposed off the case vide proceedings no. 8935/SM, dt 17.09.2022 and ordered to realise the demanded amount of compensation.</p> <p>Further, Sri Ramesh Prasad Sao, Ex-lessee of Guali Iron Ore Mines has filed Revisional Application No. 22/26/2022 RC-I on 18.10.2022 before the Revisional Authority, Mines Tribunal, New Delhi under Section 21(5) of the MMDR Act, 1957. Comments has been submitted from the State Govt. on 31.10.2022. The case is pending.</p>
Additional information (if any)	<p>DFO, Keonjhar Forest Division, during the recommendation of Forest Diversion proposal over 194.683 ha, reported at Sl. No. 'E.1: Violation & Action taken thereof' regarding the utilization of 46.0 ha Sabik Kissam forest land within Guali ML.</p>

xix. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	<p>PP submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing M 054792 dated 09.07.2021 stating M/s Odisha Mining Corporation Limited shall comply with all statutory requirements and 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.</p>
Undertaking of Project Proponent	<p>Project Proponent submitted an undertaking vide Lr No: 1962.OMC/F&E/2022 dated 08.02.2022 stating that the contents (information and data) as given by our consultant (M/s MECON Limited) in the EIA-EMP report are factually correct with full knowledge of the undersigned.</p>
Undertaking of Consultant	<p>Consultant submitted an undertaking vide Lr dated 01.02.2022 stating that the ToR prescribed for above mentioned project has been compiled while conducting the EIA-EMP study and the data submitted is factually correct. It is certified that no unethical practices, plagiarism involved in carrying out the work and external data/text has not been used without proper acknowledgement while preparing this EIA report.</p>

xx. Details of the EMP:

Activities	Recurring cost (Lakhs Rs./yr.)	Capital cost (Lakhs Rs.)
Pollution control	30.00	1657
Pollution monitoring (laboratory)	19.00	100
Occupational safety	7.00	5.00
Green belt & plantation at safety zone	44.00	70
Net Present Value (NPV) of Forest	-	1461
Compensatory Afforestation	-	1172
Wildlife Conservation	-	310
Socio-economic welfare measures in nearby villages (CSR budget)	338.83	-
Total	438.83	4775.0

xxi. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Rs. 463.28 (438.83 + 24.45)
Project Cost	Rs. 1020.6354
Employment	Employment to total 1390 persons (523 persons for expansion)

3. Observation and Recommendation of the Committee: -

The EAC noted that the instant proposal is for grant of Environmental Clearance of Auction mine from Shri R. P. Sao to M/s Odisha Mining Corporation Ltd. The Project Proponent informed the EAC that the total mine lease area is 358.258 ha and the proposal is for expansion of production of Iron Ore from 5.7 MTPA to 30.0 MTPA (ROM). The EAC asked the Project Proponent why there is such a huge increase in the production capacity. The Project Proponent informed the EAC that the Subsequent to MMDR, Amendment Act, 2015, the lease period of several non-captive iron ore mines of Odisha expired on 31.03.2020 and as a result, there was a sudden drop in the supply of Iron Ore. In order to meet the increase iron ore demand, Guali Iron Ore mine lease was allotted to M/s Odisha Mining Corporation Ltd for producing 30.0 MTPA of iron ore from the mine lease area to sustain the continuous supply of iron ore. OMC is one of the major suppliers of iron ore to domestic iron & steel producers which does not have captive iron ore mines and also exports iron ore. Many domestic steel producers are planning to increase their capacity. There are many no. of pellet plants in and around the State. Now, the export duty is taken off. The proposed increase in Guali Mine's capacity will contribute to meet the increased iron ore requirements of domestic iron & steel producers, especially those in Odisha and adjoining States. The instant mine has the potential to produce 30.0 MTPA of Iron Ore.

The Project Proponent presented the KML file to indicate the site features in the study area. PP informed the EAC that the Odisha-Jharkhand Interstate boundary is located at a distance of 4.5 km, NW from the mine lease area. PP also indicated

the other mines and industries in the 10 km study area. Further, PP informed that the nearest town is Barbil (~14 km, NE), railway station is Barbil (~22 km, NE) and airport is Jharsuguda (~128 km, NW). The seasonal nala Topadihi passes through the lease in south-east to north-west direction which drains into Karo river flowing towards west. The mining area is divided into two blocks, Topadihi (Block A) and Baliasahi (Block B) and in expansion phase Baliasahi (Block B) will be in operation. In the conceptual stage, the accumulated mineral rejects as well as freshly generated mineral rejects will be sold off after being blended with high grade ores.

The EAC asked about the status of the Stage-II Forest Clearance. The Project Proponent informed the EAC that the total mine lease area is 358.258 ha, out of which forest land is 332.100 ha and non-forest land is 26.158 ha. Stage-II FC is available over an area of 137.417 Ha. The EAC observed that the Stage-II FC is available in the name of M/s Shri R.P Sao. PP also informed the EAC that the diversion of forest land for balance area of 194.683 ha has been submitted vide proposal no FP/OR/MIN/140713/2021 dated 12.04.2021 in the name of M/s Odisha Mining Corporation Limited and is under process. Further, the Project Proponent informed the EAC that the no mining activity was carried out in the non-diverted forest land. The EAC also asked about the status of transfer of forest clearance. PP informed that transfer of forest clearance is also under process. The EAC reiterated to the judgement of Hon'ble Supreme Court as given under: -

- a) Judgement dated 06.07.2011 in the matter of TN Godavarman Thirumulpad vs UOI & ors. WP No. 202 of 1995 (Lafarge Umiam Mining Pvt. Ltd.);
- b) Judgement passed in Common Cause vs Union of India & ors W.P (c) 114 of 2014 dated 02.08.2017

The Project Proponent informed the EAC that the additionally 1 x 2500 & 1 x 5000 TPH stationary multistage crushing & screening plant will be installed to meet the enhanced production capacity. Only dry crushing & screening units are proposed. No beneficiation plant proposed. About ~22.06 Mt of mineral rejects will be blended with high quality iron ore & sold. Topsoil of about ~0.514 Mt will be generated & concurrently used in plantation. Further, PP informed that about 30% of total iron ore will be transported by trucks via adjacent NH-520 to nearby buyer/railway sidings and 70% of total iron ore through standalone Satellite Grinding Unit (with pumping facility & slurry pipeline) to be established by single or multiple parties having beneficiation & pellet plants.

The Project Proponent informed the EAC that the proposed project envisages diversion of Topadihi Nala flowing through the ML area. The EAC was of the view that the natural waterbodies or nala should not be diverted. PP informed the EAC that the nala diversion study has been carried out by IIT (ISM), Dhanbad. The study concluded that "the proposed diverted nalla will start from LP12 and end near LP 23 and it will stretch towards east along the boundary of the Guali Iron Ore Mines lease

area and merge with check dam at location LP23. Beyond the end point of the proposed nalla, the water flow will continue through an existing natural stream for 6.33 km and will end at the Karo river. The proposed nalla has been designed for the maximum flow rate including pump flow rate. When the nalla stretched towards the east, the need of excavation is less than the other possible directions of diversion and the length of the proposed nalla is also shortened, hence will reduce the construction cost". The EAC opined that the Project Proponent also needs to explore the possibility of avoiding the diversion of nala by Indian Institute of Technology (Indian School of Mines), Dhanbad. The EAC observed that the PP vide Lr No 1432OMC/F&E/2022 dated 25.01.2022 requested the Engineer in Chief, Water Resources Department for diversion of Topadih Nala as recommended by Indian Institute of Technology (Indian School of Mines), Dhanbad and is still under consideration. The EAC also observed that the permission for withdrawal of surface water of 1180 KLD from River Karo and permission for dewatering of groundwater of 729.281 cu.m/day is under process.

PP informed that the movement of Elephant & Sloth Bear is rarely found in the buffer zone. At the conceptual stage, excavated area of 212.27 ha will be converted into water body. Slope and Dump Stability Study has been carried out by CSIR-Central Institute of Mining and Fuel Research (CIMFR), Dhanbad. The slopes of external dumps are planned at an overall angle of less than 28° with individual lifts at less than 37°. As the dumps attain final position, the slopes will be terraced and proper vegetation will be laid which will cause binding of the soil preventing any slope failure. Retaining walls will be built all-around the external dumps which will have weep holes for passage of storm water to join garland drains. Traffic Study was carried out by CSIR- Central Road Research Institute (CRRI), New Delhi, in month of September, 2021. The expansion proposal covers an area of 27.66ha in village Topodihi, Laidapada & Guali under R&R and it involves 235 no.s including 232 families & 3 Pvt. Companies viz. (i) Triveni Earth Movers Pvt. Ltd., (ii) Tarini Movers & Transport Pvt. Ltd. and (iii) Sushant Mineral Pvt. Ltd. Budget of Rs 3023.94 Lakhs has been earmarked under R&R. About Rs. 24.45 Cr has been earmarked to address the concerns of the public hearing and the same will be completed within 3 years from the start of mining operations.

The Project Proponent informed the EAC that the previous lessee M/s. R.P. Sao, had deposited a total of Rs. 11,61,20,00,000/- towards the compensation amount in the designated bank account on 29.03.2018 for production of iron ore without E.C/beyond the EC during the years 2000-01 to 2010-11 as per the letter issued from the Office of the Deputy Director of Mines, Joda Circle vide Lr No.4098/Mines, dated 02.09.2017. The compensation amount of Rs. 29,39,18,019/- as demanded towards violation of Mine Plan / CTO from the Office of the Deputy Director of Mines, Joda Circle vide Lr No. 5254/Mines, dated 23.10.2017 has not yet been deposited by the previous lessee. The recovery of the compensation amount of Rs. 29,39,18,019.00 against violation of Mining Plan/CTO raised by DDM, Joda has

been stayed by the Revision Authority, Ministry of Mines, Govt. of India vide RA. No. 22/84/2017/RC-1 and RA vide order dated 21.12.2018 have remanded back to the State Govt. to hear the matter afresh and pass a detailed and reasoned order. The Govt have disposed off the case vide proceedings no. 8935/SM, dt 17.09.2022 and ordered to realise the demanded amount of compensation. Further, Sri Ramesh Prasad Sao, Ex-lessee of Guali Iron Ore Mines has filed Revisional Application No. 22/26/2022 RC-I on 18.10.2022 before the Revisional Authority, Mines Tribunal, New Delhi under Section 21(5) of the MMDR Act, 1957. Comments has been submitted from the State Govt. on 31.10.2022. The case is pending and the matter is sub-judice.

The EAC asked the Project Proponent to show the Certified Compliance Report (CCR) issued by the Integrated Regional Office (IRO). PP informed the EAC that the CCR was issued by the Integrated Regional Office, Bhubaneswar vide letter dated 08.12.2021. Site visit was carried out by IRO on 24.11.2021. During monitoring certain non-compliances/partial complied conditions were observed and the same was communicated for compliance vide letter dated 20.12.2021 and 08.12.2021. IRO, Bhubaneswar vide letter dated 28.01.2022 examined the action taken report submitted by PP vide letter dated 19.01.2022. The EAC asked about the status of the Wildlife Conservation Plan. The Project Proponent informed that the Site Specific Wildlife Conservation Plan has to be prepared by the respective DFO and will submit the Site Specific Wildlife Conservation Plan to the PCCF for approval as per the recent guidelines of the Forest Dept.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted that there is about 5 times increase in production capacity i.e from 5.7 MTPA to 30.0 MTPA and the EAC opined that the potential impact of the pollution will be higher due to expansion in production capacity in the vicinity of the mine lease area. Thus, the EAC opined to grant the Environmental Clearances (EC) in three phases i.e., 12.0 MTPA, 20.0 MTPA and 30.0 MTPA in order to ensure the environmental safeguards are in place. Therefore, the EAC **recommended** the proposal under the provisions of EIA Notification, 2006 for grant of Environmental Clearance (EC) for mining of Iron ore in Guali Iron ore mine for expansion in production capacity of 5.0 MTPA to 30.0 MTPA with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste 7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant for the restricted working area of 163.575 Ha (Revenue land: 26.158 Ha and diverted forest area: 137.417 Ha) out of total mine lease area of 358.258 Ha, located at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha subject

to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. The Environmental Clearance (EC) will be valid for 8 years from the date of issue of this EC as the life of the mine is 8 years.
- ii. The Environmental Clearance (EC) is accorded for the reduced area of 163.575 Ha (Revenue land: 26.158 Ha and diverted forest area: 137.417 Ha) out of total mine lease area of 358.258 Ha.
- iii. The Project Proponent needs to submit the revised mining plan for the reduced area of 163.575 Ha (Revenue land: 26.158 Ha and diverted forest area: 137.417 Ha) approved by the Indian Bureau of Mines (IBM) prior to grant of Environmental Clearance (EC).
- iv. This Environmental Clearance is accorded for the production capacity of 12.0 MTPA of Iron Ore only.
- v. The project proponent needs to submit the proof of payment of Rs. 29,39,18,019/- as per demand notice dated 23.10.2017.
- vi. The further expansion of 20.0 MTPA will be considered only after achieving the production of 12 MTPA and based on the satisfactory compliance of Environment Clearance condition as per Ministry's OM dated 11th April, 2022. The Project Proponent needs to submit the satisfactory certified compliance report from the Integrated Regional Office (IRO) for the granted EC capacity of 12.0 MTPA.
- vii. The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- viii. State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- ix. The Project Proponent should install the one continuous ambient air quality monitoring stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.

- x. The Project Proponent needs to monitor the ground induced blasting vibrations for every blast through authorized institutes and the results are to be compared with the limiting values prescribed by Director General of Mine Safety (DGMS). PP shall ensure that the values of “peak particle velocity” and “Air Over Pressure” shall be maintained below the permissible values prescribed by the DGMS, from time to time. The data needs to be maintained and submitted along with the six monthly compliance report.
- xi. The Project Proponent needs to monitor the air quality, noise level and ground vibration during drilling and blasting at the edge of the mine, near the village, crushing/screening plant and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry’s Integrated Regional Office.
- xii. The Project Proponent shall ensure that the low grade ore shall be effectively utilized.
- xiii. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area.
- xiv. The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap plantation within three years from the start of mining operations. The project Proponent should plant quality sampling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. Project Proponent needs to undertake the adequate bench plantation and on the terrace of the waste dump to prevent the soil erosion.
- xv. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry’s Integrated Regional Office.
- xvi. The air pollution control equipment’s like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense planation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.
- xvii. The Project Proponent needs to construct and commission the sewage treatment plant of 250KLD.

- xviii. The Project Proponent needs to provide the roof top rainwater harvesting structures at all office and residential buildings in and around mine premises within 6 months from the issue of this EC.
- xix. The Project Proponent needs to install the Oil and Grease separation unit.
- xx. The Project Proponent shall convert the haul road into blacktop road and cement concrete road at the entrance of the mine.
- xxi. The Project Proponent should implement the recommendations of the Slope and Dump Stability Study carried out by CSIR-Central Institute of Mining and Fuel Research (CIMFR), Dhanbad. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office (IRO) along with the six monthly compliance report.
- xxii. The Project Proponent shall explore the possibility of using electric/CNG/Solar based equipment's and machineries to reduce the diesel consumption.
- xxiii. The budget of Rs. 24.45 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- xxiv. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 438.83 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xxv. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- xxvi. The Project Proponent needs to facilitate the online education system in the identified schools by providing Wi-Fi connectivity, smart classrooms and desktops/tablets.
- xxvii. 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.

- xxviii. 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.
- xxix. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- xxx. The Project Proponent needs to comply with the Guidelines under Forest (Conservation) Act, 1980 for transfer of approvals granted under the Forest (Conservation) Act, 1980 to mining leases allotted to new lessee as per the provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2021 issued by the Ministry vide dated 07.07.2021.
- xxxi. 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.
- xxxii. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xxxiii. The Project Proponent shall take adequate measures to prevent the pilferage of mineral.
- xxxiv. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of

the above said condition shall be submitted to the Ministry's Integrated Regional Office.

1.2 Kalta Iron ore mine (ML-139) of M/s SAIL for mining of Iron ore with production capacity of 49,701 TPA (ROM) within mine lease area of 25.981 ha, located at Village Kalta, Koida Tehsil, Sundargarh District, Odisha – [File No: IA-J-11015/21/2018-IA-II(M), Proposal No: IA/OR/MIN/72371/2018; Consultant: In Situ Enviro Care] - Environmental Clearance (EC)

The instant proposal is for reconsideration of Environmental Clearance (EC) for Kalta Iron ore mine (ML-139) of M/s SAIL for mining of Iron ore with production capacity of 49,701 TPA (ROM) within mine lease area of 25.981 ha, located at Village Kalta, Koida Tehsil, Sundargarh District, Odisha.

2. Observation and Recommendation of the Committee:

The Member Secretary informed the EAC that the Consultant (M/s In-Situ Enviro Care) vide email and letter dated 03.12.2022 informed the Ministry regarding withdrawal of the presentation from the 7th EAC Meeting as the result of the supplementary assessment of one of the expert is awaited from NABET and the Consultant Organization falling under Category B Accreditation and does not comply with the minimum requirement criteria for making presentation before the EAC. The EAC was of the view that since the EIA/EMP report prepared by the NABET Accredited Consultant, the instant proposal cannot be considered further without the Consultant. The EAC also noted that based on the submitted document and informed by the project proponent during the meeting that Stage-1 FC for entire lease area is still under process. Hence the EAC opined that the project proponent shall approach the Ministry after obtaining the Stage-1 FC. Therefore, the EAC **deferred** the proposal.

1.3 Hanamaneri Limestone Mine Block of M/s J K Cement Limited with proposed Limestone Production Capacity: 4.0 Million TPA, Intercalated Waste: 1.0 Million TPA, Top Soil: 0.19 Million TPA, Over Burden: 0.94 Million TPA (Total Excavation: 6.13 Million TPA) along with installation of Crusher & Screening Capacity: 1300 TPH and OLBC Capacity: 1200 TPH with 14 km length in the mine lease area of 445.37 Ha, located at Villages: Hanamaneri, Lokapur, Jalikatti B.K. & Jalikatti K.D., Taluka: Badami & Mudhol, District: Bagalkot, State: Karnataka – [F.No: IA-J11015/39/20 22-IAII(NCM), Proposal No: IA/KA/MIN/405236/2022, Consultant: J.M. EnviroNet Pvt. Ltd] – Terms of Reference (Auction Block)

The instant proposal is for grant of Terms of Reference (ToR) of M/s J K Cement Limited for mining of Limestone in Hanamaneri Limestone Mine Block with proposed Limestone Production Capacity: 4.0 Million TPA, Intercalated Waste: 1.0 Million TPA, Top Soil: 0.19 Million TPA, Over Burden: 0.94 Million TPA (Total Excavation: 6.13 Million TPA) along with installation of Crusher & Screening

Capacity: 1300 TPH and OLBC Capacity: 1200 TPH with 14 km length in the mine lease area of 445.37 Ha, located at Villages: Hanamaneri, Lokapur, Jalikatti B.K. & Jalikatti K.D., Taluka: Badami & Mudhol, District: Bagalkot, State: Karnataka.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 16°08'21.96"N to 16°09' 57.63"N and Longitude 75°23'35.31"E to 75°26' 02.58"E. The mine lease falls under the Survey of India Toposheet No: E43V7 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

iii. Details of Mine lease:

S. no	Letter of Intent (LoI)	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area
1	Letter of Intent for grant of mining lease vide Lr No DMG-17012/20/2021/2021-22/9171 in pursuant to Rule 10 (2) of the Mineral (Auction) Rules, 2015	31.12.2021	Limestone	Letter of Intent is valid for a period of three years from the date of its issuance	Govt., of Karnataka	430 Ha
2	Corrigendum to Letter of Intent vide Lr no: 17012/20/2021/2021-22/9321 w.r.t the extent of the Hanamaneri Block was mentioned as 430.00 Ha and it stands corrected as	05.01.2022	Limestone	Letter of Intent is valid for a period of three years from the date of its issuance	Govt., of Karnataka	445.37 Ha

445.37 Ha					
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iv. Land Use/Land Cover of the Mine Lease Area:

Private Agriculture land	419.83 ha
Government land	25.54 ha
Total Mining lease area (MLA)	445.37 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area

v. Mining plan details:

Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	MP/MECH-01 (KNT)/GOA/2022-23		
	Date	21.06.2022		
	Mine lease area	445.37 Ha		
	Mineral	Limestone		
	Validity	Valid up to 31.03.2027 from the date of approval. 5 th years considering first year as year of ML execution & registered		
Mining Parameters	Description			
Method of Mining	Fully – Mechanized Opencast Mining			
Total Geological Resources	147.71 Million Tonnes			
Total Mineable Reserves	69.73 Million Tonnes			
Life of mine	21 years. The life of the mine may increase after detailed exploration of the balance area.			
Bench Height	8.0 m			
Bench Width	25 to 30 m			
Drilling/Blasting	S. No.	Particular	Details	
	1.	Bench height (m)	8 m	
	2.	Bench Width (m)	25 to 30 m	
	3.	Drill hole dia	115 mm	
	4.	Depth of hole	6 to 8.5 Mts	
	5.	Burden	3.5 m	
	6.	Spacing	4 m	
	7.	Powder Factor	9.5 Tonne/Kg	
Overall pit slope	45°			
Transportation details	Limestone will be transported from mine face to crusher by 25 T or 40 T capacity dumpers via haul road. Initially, crushed limestone will be transported to existing cement plant located at 14 km distance via road and later on same will be transported via covered belt of 1200 TPH Capacity.			
Dumpers capacity	25 to 40T			

Crushing	Impact crusher of 1300 TPH capacity will be installed within the mine with screening arrangement. Feed size of the crusher is 1200 x 1200 x 1000 mm & product size is 40mm to 85mm.
RoM output size	1.2 m x 1.2 m x 1 m
Ultimate working depth	519 m AMSL (~48m bgl)
Topsoil	The Project Proponent reported that during the plan period, 0.574 Million Tonnes (0.441 Million CuM) of top will be generated out of which 0.37 Million Tonnes (0.029 Mill. CuM) of top soil will be utilized for greenbelt/plantation & 0.204 Million Tonnes (0.019 Million CuM) of top soil will be stored & later on same will be utilized for greenbelt/plantation. At conceptual stage, 2.16 Million Tonnes (1.66 Million CuM) of top soil will be generated & same will be utilized for greenbelt/plantation, for levelling of backfilling, formation of the bund along the safety zone of road, nallah, HT line & strengthening of haul roads.
Waste	The Project Proponent reported that the intercalated waste consists of shally Limestone, low-grade limestone with high silica, dolomitic limestone, occurring at contact zone, fracture zone, bedding planes and cavity fillings, which is non-toxic in nature. During the plan period 5.12 Million Tonnes of waste will be generated OB (3.47 Million CuM)+ Intercalated waste (1.65 Million CuM) which will be temporarily dumped systematically by retreating manner covering an area of 14.69 ha in south western side of the mine area in 3 terraces of 5m height each from 573m AMSL to 588m AMSL and part of the waste will be utilized for strengthening of mine haul roads as per requirement. The entire mine area is mineralized. Hence, dumping is proposed temporarily on south western side of the mine area and subsequently, the waste will be re-handled and backfilled in mined out pit. At conceptual stage, 19.75 million tonnes of waste will be generated & same will be used for backfilling.
Surface features in the mine lease area	<ul style="list-style-type: none"> i. Electric Lines: One HT line is passing partially in NE side of the mine and same will not be disturbed. ii. Roads: A village road connecting Kajadoni to

	<p>Kadarakoppa Village is passing through the non-mining zone of the mine area.</p> <p>iii. Nallah/Halla: One seasonal Hale Halla flowing through the mine area. Same will not to be disturbed & mining will be carried out at 50m distance from the Hale Halla.</p> <p>iv. Structure: 16 structures fall in non-mining zone & same will not be shifted.</p>
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vi. Water requirement:

Total water requirement	150 KLD [Domestic: 10 KLD, Dust Suppression: 105 KLD, Greenbelt/Plantation: 25 KLD and Workshop: 10 KLD]
Source	Water will be initially sourced from ground water & gradually harvested water from mine sump will be used
Permission	Water will be sourced from ground water after getting the permission from Central Ground Water Authority

vii. Nearest village / town/ highway/railway station / water bodies:

Particular	Particular's Name	Distance & Direction
Nearest village	Kadarakoppa	~1.5 km, South
Nearest Town / City	Bagalkot	~ 20 km, East
Nearest State/National Highway	SH 44	~1.3 km, NNW
	SH 20	~ 2.5 km, West
	SH 34	~ 3.0 km, WSW
Nearest Railway Station	Bagalkot	~28 km, NNE
Nearest Water Bodies	2 Canals	Passing through the mining lease area
	One Hale halla nallah	Passing through the mining lease area
	Midchi Halla	~ 1.5 km, ENE
	Lokapur Halla	~2.5 km, WNW
	Kalaskoppa Lale	~6.5 km, ESE
	Hire Halla	~6.5 km, ENE
	Gondimada Halla	~9.5 km, ENE
Ghatprabha River	~5.5 km, NNW	

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

Forest Land / Protected Area / Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	As per revenue record, no forest land fall within the ML Area & Certificate for the same is under process
National Park	No	No National Park, Wild Life Sanctuaries,

Wildlife Sanctuary	No	Eco Sensitive Zone (ESZ)/ Eco-Sensitive Area (ESA) etc. within 10 km radius study area. Authentication for the same is under process
Eco Sensitive Zone (ESZ)/ Eco-Sensitive Area (ESA)	No	
Additional information (if any)	The Project Proponent submitted that the following Reserve Forest such as Reserved Forest (~1.75 km, NNW), Reserved Forest (~3.0 km, North), Reserved Forest (~3.5 km, NNW), Reserved Forest (~3.5 km, West), Reserved Forest (~4.0 km, WSW), Reserved Forest (~5.5 km, SE), Reserved Forest (~6.0 km, SE), Reserved Forest (~6.0 km, ESE), Reserved Forest (~6.5 km, SE), Reserved Forest (~8.5 km, SE direction), Reserved Forest (~8.5 km, ENE direction) and Reserved Forest (~9.0 km, SE) are found in the 10 km radius of the study area.	
Schedule-I Species	Report is under preparation	

ix. Green belt/plantation details:

Proposed area for green belt/plantation	At conceptual stage, Greenbelt & plantation will be carried out over an area of 131.18 ha. Break-up given as follows:		
	S. No	Particulars	Details
	1	Safety zone along ML boundary	8.52 ha
	2	Safety zone along Canal, Nallah & HT line	44.43 ha
	3	Plantation on Overburden	20 ha
	4	Bench Plantation	20.39 ha
	5	Plantation on Temporary Soil stacking	32.50 ha
	6	Plantation along infrastructure	5.34 ha
	At conceptual stage, total excavated area will be 215.65 ha, out of which 20 ha will be backfilled & rehabilitated by plantation, 175.26 ha will be converted into water reservoir & 20.39 ha will be covered under bench plantation. The trees will be planted @ 2500 trees/ha of land.		
Budget for green plant & plantation till the end of life of mine.	Rs. 6.56 Cr. (131. 18 ha; @ 2500 trees / ha; @ Rs. 200 / sapling)		
Budget for nursery	-		

Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	8.52
50 m safety zone of canal, nallah, HT lines	44.43
500 m safety zones of nearest habitation villages	0

x. Rehabilitation & Resettlement:

R & R details	The Project Proponent submitted that this is the proposal for ToR and detailed R&R Plan is under preparation. Total mining lease area is 445.37 ha, out of which 419.83 ha is Private Agriculture land and 25.54 ha is Govt. land which falls in 4 villages namely Hanamaneri, Lokapur, Jalikatti B. K. & Jalikatti K. D. 16 structures fall in non-mining zone; therefore, same will not be shifted. Land will be purchased with negotiation and R&R provisions will be followed as per Central and State Government Rules & Notifications.
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xi. Court case details:

Court Case	The Project Proponent submitted that no court case is pending against the project.
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- xii. The Project Proponent submitted the Affidavit in a non-judicial stamp duty amount of Rs 50 bearing Certificate No. IN-KA77150483416555U dated 07.11.2022 stating that "the company hereby undertake by affidavit comply with all the statutory requirement & judgment of Hon'ble supreme court dated the 2nd August 2017 in writ petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & ors before grant of ToR/EC".
- xiii. The Project Proponent submitted that the total project cost is Rs 373 Cr and about 120 persons will get employment.

3. Observation and Recommendation of the Committee:

The EAC noted that the instant proposal is for grant of Terms of Reference (ToR) for green field project for mining of Limestone in Auction block. The Project Proponent/Consultant presented the KML file to indicate the surface features in the study area. The Project Proponent informed the EAC that the total mine lease area is 445.37 ha, out of which Private Agriculture land is 419.83 ha and Government land is 25.54 ha. Initially, the crushed limestone will be transported to interlinked cement plant via road till 3rd year and from the 4th year via covered conveyor belt. Two

canals and seasonal Hale Halla flowing through the mine lease area and the same will not to be disturbed and 50m safety distance has been left on either side of the canal and Halla respectively. One HT line is passing in the eastern side of the mine lease area and the same will not to be disturbed. The mining will be carried out only in the western part of the mine lease area i.e., in Pit-1, Pit-2 & Pit-3 and no mining will be carried out in the eastern part of the mine lease area. An area of 138.23 ha will remain as a no mining zone. The EAC opined that the Project Proponent needs to obtain the permission from the State Govt. to ensure the safety of the canal and also asked the Project Proponent to submit the measures to be taken for protection of canal from the mine pit and vice versa. Further, the Project Proponent informed that there is no forest land involved in the mine lease area and the nearest Reserve Forest is located at a distance of 1.5 km, S from the mine lease area and a village is also located at a distance of 1.5 km, NNW from the mine lease area.

The EAC asked about the timeline for installation of Over Land Belt Conveyor (OLBC). The Project Proponent informed that the railway line is also proposed by the Govt. in the vicinity of the mine lease area and the alignment of the railway line is required to determine the timeline and approximately it will take 4 years from the start of mining operations. The production capacity of 4.0 MTPA of Limestone will be achieved in the 5th year. Total mineable reserves estimated as 69.73 Million Tonnes and the life of the mine ~21 years. Mine will be operated with 3 no. of working shifts for 300 no. of working days. At the conceptual stage, total excavated area will be 215.65 ha and an area of 131.18 ha will be covered under Greenbelt/Plantation. The Pit-1 and Pit-2 will be converted into water reservoir and Pit-3 will be backfilled. Plantation is proposed on the safety zone of the canal.

After detailed deliberations made by the Project Proponent and the Consultant in the 7th EAC (Non-Coal Mining) meeting held during 5th - 6th December, 2022, the EAC **recommended** the proposal for grant of Terms of Reference (ToR) under the provisions of EIA Notification, 2006 and its subsequent amendments to M/s J K Cement Limited for mining of Limestone in Hanamaneri Limestone Mine Block with proposed Limestone Production Capacity: 4.0 Million TPA, Intercalated Waste: 1.0 Million TPA, Top Soil: 0.19 Million TPA, Over Burden: 0.94 Million TPA (Total Excavation: 6.13 Million TPA) along with installation of Crusher & Screening Capacity: 1300 TPH and OLBC Capacity: 1200 TPH with 14 km length in the mine lease area of 445.37 Ha, located at Villages: Hanamaneri, Lokapur, Jalikatti B.K. & Jalikatti K.D., Taluka: Badami & Mudhol, District: Bagalkot, Karnataka for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. In view of the agricultural land proposed under the mining lease area, the Project Proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and

beneficiaries. The Project Proponent needs to submit the action plan for returning the land back to the farmers along with the timeline.

- ii. The Project Proponent needs to submit the action plan for installation of Over Land Belt Conveyor (OLBC) of 1200 TPH with 14 km length in the mine lease area of 445.37 Ha along with the cost for a timeline of 4 years from the start of mining operations.
- iii. The Project Proponent needs to submit the measures to be taken for protection of canal from the mine pit and vice versa and also the action plan to ensure the stability of the canal.
- iv. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- v. 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.
- vi. The Project Proponent needs to carry out the study of carrying capacity of the road for transportation of mineral from the mine to the cement plant. PP also needs to mention the strength of the existing capacity of road for transportation.
- vii. The Project Proponent needs to submit the action plan for plantation in the safety zone of the mine lease boundary, canal, mine bench and nalla. PP also needs to submit the action plan for regrassing over the backfilled area. The details of the no. of saplings proposed, type of saplings, spacing and the area to be covered including the cost and timeline for completion of plantation needs to be provided in the EIA report.
- viii. The Project Proponent needs to submit the action plan for installing permanent water sprinklers on the haul road instead of water tankers.
- ix. The Project Proponent needs to submit the timeline for construction of retaining wall, garland drains, catch drains and siltation ponds.
- x. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving

- intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xi. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
 - xii. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
 - xiii. The Project Proponent needs to obtain the permission from the State Govt. to ensure the safety of the canal.
 - xiv. 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 through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
 - xv. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF)/Project Displaced Families (PDF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP need to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan. PP also needs to submit the possession certificate and timeline for acquiring the remaining land at the time of appraisal of EC. PP also needs to mention the details of the 16 structures falling in non-mining zone.
 - xvi. The Project Proponent needs to submit the breakup of the Project Cost.
 - xvii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

1.4 Itoura Limestone mine of M/s. RCCPL Private Limited with production capacity of 0.8 MTPA, Waste/rejection 0.51 MTPA, Topsoil 0.09 MTPA (Total excavation: 1.4 MTPA) in the mine lease area of 747.817 ha located at villages Itoura, Bachwai, KarhiPawai, Giduri, and Rewra, Tehsil Raghurajnagar, Satna District, Madhya Pradesh – [File No: J-11015/16/2019-IA.II(M), Proposal No: IA/MP/MIN/101792/2019; Consultant: Vimta Labs Ltd]- Reconsideration of EC

The instant proposal is for reconsideration of EC of M/s. RCCPL Private Limited for mining of Limestone in Itoura Limestone mine with production capacity of 0.8 MTPA, Waste/Reject: 0.51 MTPA, Topsoil: 0.09 MTPA (Total excavation - 1.4 MTPA) in the mine lease area of 747.817 ha, located at Villages Itoura, Bachwai, Karhi Pawai, Giduri, and Rewra, Tehsil Raghuraj nagar, Satna District, Madhya Pradesh.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 24°34'44.65"N - 24°36'50.87"N and Longitude 80°44'22.98"E - 80°47'45.92"E. The mine lease falls under the Survey of India Toposheet No: G44 U10 and G44 U14 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The proposal was initially considered in the EAC (Non-Coal Mining) meeting held during 30th November - 3rd December, 2021 wherein the EAC deferred the proposal for want of requisite information. The Project Proponent vide Letter Ref No: RCCPL/ Itaura_MP/MoEF&CC/05 dated 28th March 2022 submitted the information and accordingly the proposal was again considered in the EAC (Non-Coal Mining) meeting held during 19th to 21st April, 2022 wherein the EAC deferred the proposal for want of requisite information. Then, the Project Proponent vide letter dated 02.06.2022 and 24.06.2022 submitted the information on 07.06.2022 and 27.06.2022 respectively in Parivesh and accordingly the proposal was reconsidered in the 1st EAC (Non-Coal Mining) meeting held during 27th - 29th July, 2022 and the EAC deferred the proposal and was of the view that the proposal may be considered only after the submission of the additional information. Accordingly, the Project Proponent submitted the information on 16.11.2022 in Parivesh and the proposal was again reconsidered in the 7th EAC (Non-Coal Mining) meeting held during 5th – 6th December, 2022.

Based on observation of EAC and compliance of observation of EAC made by PP, the following are detailed below:

S. No	Observation of EAC	Reply by Project Proponent
1	The Project Proponent needs to submit the map from the Dept of Railways delineating the railway boundary from the railway line with the geographical coordinates.	The Project Proponent submitted the map from the Dept of Railways demarcating the mine lease boundary, railway boundary from railway line with geographical coordinates.

		<p>PP also submitted that the Railway boundary is 30 m on either side of railway line. Mining will not be carried out within 100 m of railway boundary - Safety barrier zone.</p>
<p>2</p>	<p>The Project Proponent shall submit a plan for relocation of school with all the existing infrastructure facilities available along with the budget with the suitable timeframe for relocation of school as committed by the Project Proponent during the meeting. An Undertaking in this regard needs to be submitted by the Project Proponent.</p>	<p>The Project Proponent submitted that the land admeasuring 22 Acres is identified in the nearby village in Khasra no. 165 of Gaura village for the relocation of the institution. Boundary of proposed location is at a distance of 485 m from mine. A budget of Rs 5900 Lakhs has been earmarked for shifting the institution. Mining will be carried out beyond 300 m from the existing institution boundary during 15 years after commencement of mining operation. In line with the plan approved by IBM, activity related to shifting is planned to be initiated after 12 years of operations such that the same is completed prior to start of mining operation in the safety zone of institution premises. PP also submitted the map showing the proposed location for shifting the institution.</p> <p>Further, the PP submitted an undertaking vide letter dated 11.11.2022 stating that</p> <ol style="list-style-type: none"> a) The existing school/institute is located in village Karhi Pawai on Survey Numbers 72, 83, 84, 85, 86, 87, 88, 89, 90, 103 & 109 within the ML area. b) The mining shall reach in the block where school is located beyond 15 years of operation. c) In line with the plan approved by Indian Bureau of Mines (IBM), activity related to shifting

		<p>of the institution shall be initiated after 12 years of operations such that the same is completed prior to start of mining operation in the safety zone (300 mtr) of institution premises.</p> <p>d) Meanwhile, mining beyond 300 meter zone from the existing institution shall be carried out as per the recommendations of technical study to be carried out by the premier institutes like Central Institute of Mining & Fuel Research (CIMFR) and conditions prescribed by DGMS under MMR 1961.</p> <p>e) Approach roads leading to the existing institution shall not be disturbed during the course of mining.</p> <p>f) Prescribed safety measures shall be adopted to safeguard the approach road and the school / institute.</p>						
3	<p>The project proponent needs to submit the road alignment of the bypass road passing through the lease area connecting the NH with the geographical coordinates. The Project Proponent needs to submit the action plan for strengthening road network and bypass road proposed to be used for transportation along with the timeline. Also, the Project Proponent needs to explore the possibility of shifting the road connecting National Highway falling within the mine lease area before commencement of mining operations in area adjacent to road.</p>	<p>The Project Proponent submitted the map showing road alignment of the bypass road passing through the lease area connecting the NH with the geographical coordinates and also the map showing proposed road for transportation of mineral from ML area to Cement Plant.</p> <p>PP also submitted that the proposed transport route is 60 km, out of which 52 km is on State Highway & National Highway, 3 km on rural road and 5 km within own premises. The action plan for maintenance of the rural road and road within own premises are given as under :</p> <table border="1" data-bbox="850 1966 1401 2031"> <thead> <tr> <th>S. No</th> <th>Action Plan</th> <th>Timeline</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Traffic signage</td> <td>Before start</td> </tr> </tbody> </table>	S. No	Action Plan	Timeline	1	Traffic signage	Before start
S. No	Action Plan	Timeline						
1	Traffic signage	Before start						

			will be displayed at conspicuous locations	of transportation
		2	Loaded trucks will be covered with tarpaulin to reduce air pollution	Regular after start of transportation
		3	Trucks will not be overloaded to avoid spillage en-route	Regular after start of transportation
		4	Road surface will be strengthened wherever required	Before start of transportation as well as regularly as and when required.
		5	Pot holes shall be continuously filled-up	Initially before start of transportation and then regularly
		6	Avenue plantation will be done along the road wherever possible	Within one year from the start of transportation
		7	Water sprinkling will be done on the road within the ML area	Regular after start of transportation
		<p>Further, PP submitted that the bypass road is under construction at advance stage. Moreover, there is no suitable land alignment available outside the lease area for laying a shifted road because of large scale habitation. Hence, shifting of bypass road connecting National Highway is not proposed. A safety barrier of 50 meter from the outer limit of road on either side is proposed. No mining will be conducted on this safety barrier area.</p>		

		<p>Beyond this safety barrier, mining will be conducted as per the recommendations of scientific study to be carried out for arriving at controlled blast design patterns for safe & efficient blasting through the premier institutes like Central Institute of Mining & Fuel Research (CIMFR) and also as per the conditions prescribed by DGMS under MMR 1961.</p>
4	<p>The Project Proponent shall submit the detailed action plan for plantation on the proposed embankment along the river Satna with local and diversified species.</p>	<p>The Project Proponent submitted that in order to prevent erosion of soil and protecting soil erosion due to flooding etc. plantation of native and diversified species is planned near the proposed embankment along Satna River. These indigenous plant species include Sal (<i>Shorea robusta</i>), Shisham (<i>Dalbergia sisoo</i>), Karanj (<i>Pongamia pinnata</i>), Neem (<i>Azadirachta indica</i>), Arjun (<i>Terminalia arjuna</i>), Cluster Fig (<i>Ficus racemosa</i>), Jamun (<i>Syzgium cumini</i>), Rain Tree (<i>Samanea saman</i>), Mango (<i>Mangifera Indica</i>) and Mahua (<i>Madhuca longifolia</i>). All these species are ideally suited for the ecological habitat of Satna district, Madhya Pradesh.</p> <p>PP also submitted that in addition, native species of grass that has deep roots will also be grown in between the plants to prevent soil wash off, if any, near the water course. Approx. 5 to 5.25 ha area will be available for plantation considering a width of 60 m and total length of 875 m (325+550) in two portions. It will accommodate approx. 4000 to 5000 plants of mix variety of above stated species to maintain optimum diversity. The plant saplings will be ideally 1 to 2 years old, chosen from social forest</p>

		<p>nurseries or private nurseries and care will be taken like fencing / guarding, providing water during lean seasons etc. at least for 2 years to ensure its survival and growth.</p> <p>Further, PP submitted that the subject area (pit no. 11 & 15) near the Satna River will be under mining beyond 30 years of commencing mining at Itoura. Thus, as per the proposed plan, it is proposed to take up above plantation 3 to 5 years ahead of commencing mining in the nearby pit. The proposed plantation will cost about Rs.45,00,000/- at the rate of Rs.1000 per plant.</p>
5	<p>The Project Proponent needs to submit the detailed plan for rainwater harvesting with year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rainwater harvesting measures.</p>	<p>The Project Proponent submitted that the total water requirement for mine is estimated to be around 183 KLD and it is proposed to meet this requirement from ground water through bore wells during initial period of operation. Subsequently, water available from the dewatering of mine will be the alternate source to meet entire requirement except for drinking. As per the hydrogeological study carried out, the average water level in the ML area is around 6.00 m bgl and 12.50 m bgl during monsoon and non-monsoon periods. The mine workings will intersect water table from 2nd year onwards. The pumping of mine seepage water is required to keep the mine floor free from water accumulation. The quantity of water seepage pumping will vary from 9.53 m³/day in 2nd year to 415.10 m³/day in 5th year.</p> <p>PP also submitted that water requirement for mine operation can be</p>

		<p>met entirely from dewatering of seepage water of mine pit from 4th year onward, except for drinking. Thus, ground water requirement except for drinking / domestic purpose can be completely eliminated from 4th year onwards.</p> <p>Further, PP submitted that to reduce the dependency on ground water through bore well, roof rain water harvesting structure will be constructed in mine office / infrastructure area for storage of rain water for part requirement of drinking / domestic purpose. Annual water required for domestic purpose is 1200 m³ (@ 4KLD for 300 days of mine working per year). Facilities in the infrastructure include mines office, stores, workshop etc., and roof top area of these facilities is 1.00 ha which will remain as infrastructure till conceptual stage. The amount of rainfall available from these concrete roof tops estimated using average rainfall of 1142 mm as per IMD data and run-off coefficients suggested by Manual on Artificial Recharge of Ground Water, CGWB is 9,707.00 m³. Considering only 80% of the run-off available volume after evaporation, spillage and first flush wastage and a further 80% efficient rain water harvesting system, 6,212.48 m³ is the run-off volume estimated as available for storage. To meet the requirement of 1200 m³ water, Storage tank of 20m x 20m x 3 m size would be required for this purpose. Any overflow from the storage tanks shall be diverted to the nearest storm water drain to reach the natural surface flow.</p>
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		PP earmarked a budget of Rs 10 Lakhs as capital cost. The recurring expenses will be in the form of operation and maintenance of system like, cost of running electrical pump, cleaning of storage tank and replacement of sediment filters, periodic checking of quality and disinfection of water etc. which will be about Rs.25,000/- per annum.
6	The Project Proponent needs to revisit the EMP budget allocated under Air Environment at item (1) APCE at crusher & conveying system and (2) Dust suppression system at crusher with proper estimation.	The Project Proponent submitted the revised budget allocated under Air Environment at item (1) APCE at crusher & conveying system from Rs 1.030 Cr to Rs 2.701 Cr as Capital cost and recurring cost from Rs 0.684 Cr to Rs 0.851 Cr and (2) Dust suppression system at crusher from Rs 0.050 Cr to 0.432 Cr and recurring cost from Rs 0.005 Cr to 0.043 Cr.
7	The Project Proponent needs to submit the Environmental Policy by mentioning the name of the company.	The Project Proponent submitted the Environment, Health and Safety Policy dated 1 st January, 2017 by mentioning the name of the company.
8	The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories.	The Project Proponent submitted that the monitoring and analysis of environment attributes carried out for water, air, soil, noise etc. by M/s Vimta Labs Limited, Hyderabad which is MoEF&CC/NABL accredited laboratory. NABL accreditation TC-5418 is valid till 30.03.2024.

3. Observation and Recommendation of the Committee:

The EAC deliberated on the additional details submitted by the Project Proponent/Consultant. The EAC noted that the Project Proponent submitted the map from the Dept. of Railways demarcating the mine lease boundary, railway boundary from railway line with geographical coordinates. The Project Proponent informed the EAC that the railway boundary is 30m on either side of railway line and thereafter a safety distance of 100m is left and no mining activity will be carried out within 100m of railway boundary - safety barrier zone. The Project Proponent informed the EAC that the land admeasuring 22 acres is identified in the nearby village in Khasra no.

165 of Gaura village for the relocation of the institution. Budget of Rs 59.0 Cr has been earmarked to shift the institution. PP also informed the EAC that the boundary of proposed location is at a distance of 485 m from mine lease area. Further, the Project Proponent informed the EAC that it is proposed to start the shifting after 12 years of mining operation and the same will be completed prior to start of the mining operation in the safety zone of institution premises. The EAC not convinced with the timeline for shifting the institution. The EAC asked the Project Proponent whether the consent has been obtained from the Gram Sabha/Pradhan. The Project Proponent informed that consent has not been obtained from the Gram Sabha/Pradhan. The EAC asked the Project Proponent to get the Consent from the Gram Sabha/Pradhan and also to revise the timeline for shifting the institution. Therefore, the EAC **deferred** the proposal.

1.5 Guruvanipalli Limestone Mine of M/s. UltraTech Cement Limited for expansion in Production Capacity of Limestone from 0.30 Million TPA to 4.00 Million TPA, Topsoil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine lease area of 395.15 ha, located at Village Guruvanipalli (Revenue Village: Petnikota), Taluka- Kolimigundla, District- Kurnool, Andhra Pradesh - [File No: IA-J-11015/56/2021-IA-II(NCM), Proposal No: IA/AP/MIN/404750/2022, Consultant: J.M. EnviroNet Pvt. Ltd.] - Terms of Reference (ToR)

The proposal is for grant of Terms of Reference for M/s. UltraTech Cement Limited for mining of Limestone in Guruvanipalli Limestone Mine for expansion in Production Capacity of Limestone from 0.30 Million TPA to 4.00 Million TPA, Topsoil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine lease area of 395.15 ha, located at Village Guruvanipalli (Revenue Village: Petnikota), Taluka- Kolimigundla, District- Kurnool, Andhra Pradesh.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude: 15°03'19.99661" N to 15°05'36.79473" N and Longitude: 78°00'16.63709" E to 78°01'55.11414" E. The mine lease area falls under the Survey of India Toposheet No: D43F16, D43L13, D44A4 and 57 J/1 and falls in Seismic Zone – II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 250 ha and appraised at Central level.
- iii. The proposal was earlier considered in the 35th EAC (Non-Coal Mining) meeting held during 16th - 19th August, 2021, after detailed deliberations made by the Project Proponent and the Consultant, the Committee after viewing KML file noted that the Project Proponent has not complied the earlier EC conditions in terms of plantation, as per the IRO certified Compliance report dated 22.07.2021 the survival rate is 80% and the production achieved till

date only 15% of existing EC capacity. The first five year mining plan also shows that the proposed production for first three years is within the existing EC capacity of 0.30 MTPA. Hence, the Committee was of the view that the proposal for expansion in production capacity will not be considered till the plantation as per earlier EC dated 01.07.2009 is complied with the survival rate at least 90% with adequate gap plantation and 75% of the existing production capacity is achieved. The Committee therefore returned the proposal in present form.

- iv. Now, the Project Proponent submitted a fresh proposal for grant of Terms of Reference stating that the half of the granted production capacity within last six months has been achieved and the same has also been certified from Department of Mines and Geology vide letter No 744/M4/1998 dated 10.06.2022 for the period April, 2021 – May, 2022. PP also submitted that the gap plantation has been carried out to increase the survival rate and now the overall survival rate is 95% and till date mine working pit / excavation area is only 1.32 Ha against 395.15 ha. Total 12.08 Ha area has been covered under Greenbelt/Plantation.
- v. The Project Proponent submitted that initially Environmental Clearance has been obtained vide Lr No J-11015/212/2008-IA.II(M) dated 01.07.2009 for a production of 0.30 MTPA in the mine lease area of 395.15ha in favour of M/s. UltraTech Cement Limited.
- vi. Details of Mine lease:

S.no	Lol/Lease Grant order	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Initial Grant of Mining lease in favour of M/s Dakshin Cement Limited vide G.O. Ms. No.149, Inds. & Com (M.III) Dept.,	30.09.1995	Limestone	02.01.1997 – 01.01.2017 (20 years)	Govt., of Andhra Pradesh	395.15
2	Transfer of Mining lease held by M/s Dakshin Cement Limited to M/s. UltraTech Cement Limited vide G.O. Ms.No.80, Inds. & Com (M-I) Dept.,	16.04.2012	Limestone	for the unexpired portion of the mining lease period i.e., upto 01.01.2017	Govt., of Andhra Pradesh	395.15
3	Extension of validity of mine	12.02.2019	Limestone	For the period upto	Govt., of Andhra	395.15

	lease vide G.O. Ms. No. 38			01.01.2047	Pradesh	
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vii. 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.	02.01.1997	01.01.2017	Proceedings No. 5634/M4/95 dated 02.01.1997 in favour of M/s Dakshin Cement Limited
2	Transfer of mining lease deed	11.07.2012	01.01.2017	Affidavit bearing AK 772376 in favour of M/s. UltraTech Cement Limited
3	Supplementary lease deed	15.03.2019	01.01.2047	Affidavit bearing CH 337737

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

Private land	230.02 ha
Government land	165.13 ha
Total Mining lease area (MLA)	395.15 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the ML area

ix. Details of Approval of Mining Plan:

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Modified Mining Plan (including Progressive Mine Closure Plan) approved by Indian Bureau of Mines	AP/KNL/MP/LST22/HYD dated 04.02.2021	04.02.2021	2021-22 to 2025-26	Limestone, 395.15 Ha

x. Mining Plan Details:

- i. The Project Proponent submitted that the existing method of opencast mechanized mining will be adopted by deploying heavy mining machineries with conventional drilling and blasting operations.
- ii. PP reported that the Total Geological resource is 170.79 Million Tonnes and Mineable Reserve is 108.81 Million Tonnes. During the plan period of 5 years, 6.2 Million TPA (24.8 Lakh Cum) will be excavated of 108.81

Million Tonne reserves and the balance reserve of 102.61 Million Tonnes limestone will be extracted within a period of 25.6 years say 26 years on the basis of production @ 4.0 Million Tonne/annum. Hence, Life of mine will be 5 (plan period) + 26 years (beyond) = 31 years.

- iii. The bench height will be 9m (Max) and bench width will be 20-25m (during operation) and 10m (at conceptual stage). During the plan period, pit shall be worked in max 4 benches of 9m each. The overall pit slope will be 45°.
- iv. The loading of limestone will be done by hydraulic excavators of 6.5 cu.m as well as loaders of 6.5 cu.m bucket capacity. The transport of blasted material is being/will be done by 55 Ton capacity dumpers from mine to crusher (at a distance of 1.5 km by road) and then to Cement Plant through covered conveyor belt of 3.1 km length. The Company is having two existing crushers of capacity 1200 TPH & 1800 TPH, which are outside the lease area.
- v. There is no waste generation during the mining operation hence no backfilling is proposed.
- vi. The Topsoil generation will be about 0.34Million Tonne for the plan period and 2.50Million Tonne for the life of the mine and it will be utilized for plantation and greenbelt development.
- vii. PP submitted that old slab quarries also exist in Northern and South Eastern Part of the lease area, which exist before the mining lease was granted. Part of village habitation falls within ML Area, which will not be disturbed as there is no mining proposed in that area.
- viii. PP submitted that the total mine lease area is 395.15 Ha, out of which 163.23ha will be undisturbed till the end of life of mine.
- ix. PP reported that during the plan period working will be carried out in South eastern part of the lease area. At present mining has been done upto 7-9 m bgl and in proposal period mine working depth will be up to 37m bgl. During conceptual period the depth of working will be maintained upto 55m bgl. The water table occurs at a depth of 20 to 25m bgl (Pre-monsoon) and 15 to 20m bgl (Post-monsoon). Hence, water table will be intersected during the plan period.

xi. Water requirement:

Total water requirement	300 KLD		Fresh water	300 KLD
	Existing requirement	Additional requirement	Treated water	-
	140 KLD	160 KLD		
Source	From Cement plant's and sump of existing mine & later from this mine sump as and when developed.			
Permission	Govt. of AP accorded permission vide CORD-11028/6/2018-SLNA-GIS-CORD, dated 11/12/2021 for withdrawal of mine pit			

xii. Nearest village / town/ highway/railway station / water bodies:

Particulars	Details	Distance & Direction
Nearest village	Guruvanipalle	Part of habitation falls within the lease area.
Nearest Town / City	Tadipatri	16.0 km, SSW
Nearest State/ National Highway	SH – 30 SH - 57	~5.5 km, South ~4.0 km, SE
Inter-District boundary	Anantpur & Kurnool Inter-District Boundary	Adjacent, NW
Nearest Railway Station	Tadipatri Railway station	16.5 km, SSW
Nearest water bodies	A nallah passing through the lease area	
	Pedda Vanka	~2.5 km, NE
	Pedda Vanka	~6.5 km, WSW
	Saddala Venganna Cheruvu	~7.0 km, East

xiii. The Project Proponent submitted that there is no forest land within the mine lease area. Further, PP submitted that there is no Reserve Forest, Protected Forest, National Park, Wild Life Sanctuaries, Biosphere Reserves, Tiger Reserves, Wildlife Corridors, Eco-Sensitive Zone (ESZ) within the 10 km radius of the study area. No Schedule I fauna found in the study area. Letter regarding the same will be obtained from the Forest Department.

xiv. Green belt/plantation details:

Proposed area for green belt/plantation	74.98 ha
7.5 m barrier & non-mineralized zone	14.30 ha
50 m safety zone of nallah, roads, electric lines	36.80 ha
Non mineralized zone	23.88 ha
Existing Status of plantation/greenbelt	12.08 ha (29,552 no.s) Gap plantation has been done to increase the survival rate - Now the overall survival rate is 95% and till date mine working pit / excavation area is only 1.32 Ha against 395.15 ha.
Proposed area for plantation/greenbelt till the year 2046	62.9 ha (1,76,802 no.s)
Budget for green plant & plantation till the end of life of mine.	Rs 62 lakhs (yearly 2 lakhs)
Budget for nursery	No Provision for Nursery
Additional information (if any)	Plantation on 25.18 ha will be under top most abandoned benches

xv. The Project Proponent submitted that Consent for Establish issued by the Andhra Pradesh Pollution Control Board vide Order No. 193/PCB/CFE/RO-KNL/HO/2011 dated: 22.06.2012. PP also submitted the Auto Renewal of

Consent Order for Operation issued by the Andhra Pradesh Pollution Control Board vide Lr dated 31.10.2017 for production of 0.3 million TPA of Limestone for the period upto 31.01.2023. Further, PP submitted the Certified Compliance Report issued by the Integrated Regional Office, Vijayawada vide File No. IRO/VIJ/EPA/MISC/111-01/2021 dated 22.07.2021.

- xvi. The Project Proponent submitted that the mine came into operation on 23.05.2014. PP also submitted the year-wise production details since inception of mine certified by Department of Mines and Geology vide Lr. no 744/M4/1998 dated 09.04.2021 for the period 1997-98 to 2013-14, 2014-15 to 2020-21 and vide Lr.No: 744/M4/1998 dt: 10.06.2022 for the period April, 2021 to May, 2022. PP also submitted that as per the EC, CFE & CFO, the granted capacity is 0.3 Million TPA and production is not exceeded from the granted capacity of EC, CFE & CFO. Further, PP submitted the Affidavit in a Non-Judicial Stamp paper of Rs 100 bearing CM 524112 dated 19.04.2021 stating that the company will comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- xvii. The Project Proponent submitted that the total MLA is 395.15 ha out of which 230.02 ha is Govt. land & 165.13 ha is Private land. PP has 267.85 ha (163.08 ha Govt. land & 104.77 ha private land) under possession. State/Central government policies and rules as applicable will be followed in case of rehabilitation & resettlement, if any.
- xviii. 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.
- xix. Details of project cost and employment:

Particulars	Budget
Project Cost	Rs 48 Cr
Employment	71 Persons (Existing – 21 persons, Additional – 50 persons)

3. Observation and Recommendation of the Committee: -

The EAC noted that the instant proposal is for reconsideration of Terms of Reference for mining of Limestone in Guruvanipalli Limestone Mine for expansion in Production Capacity of Limestone from 0.30 Million TPA to 4.00 Million TPA in the mine lease area of 395.15 ha. The EAC deliberated on the additional details submitted by the Project Proponent/Consultant.

The Project Proponent informed the EAC that initially Environmental Clearance (EC) has been obtained vide EC letter dated 01.07.2009 for a production capacity of 0.30 MTPA. PP also informed the EAC that earlier the proposal was appraised in the EAC (Non-Coal Mining) meeting held during 16th - 19th August, 2021

and the Committee was of the view that the proposal for expansion in production capacity will not be considered till the plantation as per earlier EC dated 01.07.2009 is complied with the survival rate at least 90% with adequate gap plantation and 75% of the existing production capacity is achieved. The Committee, therefore returned the proposal in present form. Further, the Project Proponent informed the EAC that the gap plantation has been carried out to increase the survival rate and now the overall survival rate is 95% and till date mine working pit / excavation area is only 1.32 ha against 395.15 ha. Total 12.08 ha area has been covered under Greenbelt/Plantation. The Project Proponent also shown the authenticated details of the production and dispatch of Limestone from the Dept. of Mines of Geology vide letter dated 02.12.2022 for the period 1997-98 to 2022-23 (upto 30th November, 2022).

The EAC asked the Project Proponent when will the production capacity of 4.0 MTPA will be achieved. The Project Proponent informed the EAC that the production capacity of 4.0 MTPA will be achieved at the 5th year. The EAC asked the Project Proponent to submit the phase wise plan for increase in production capacity from 0.30 to 4.0 MTPA. The Project Proponent informed the EAC that the Cement Plant is located at a distance of 2.5 km from the mine lease area. The transport of blasted material is being/will be done by 55 Ton capacity dumpers from mine to crusher located in the adjacent mine by road located at a distance of 1.5 km and then to the Cement Plant through covered conveyor belt. No public road is being used for transportation. The EAC asked the Project Proponent to explore the possibility of deploying mobile crusher and the action plan for shifting the crusher and its impact in the EIA report.

The EAC asked the Project Proponent that what will be the height of the mine bench and how many mine benches are proposed? The Project Proponent informed the EAC that the height of the mine bench will be 9 m and 6 no. of mine benches are proposed and the total excavated area will be 155.32 ha. The EAC was of the view that the ground water table will be intersected due to mining activity and hence asked the Project Proponent to carry out a detailed hydro geological study. The EAC also asked the Project Proponent to submit the Certified Compliance Report (CCR) as per Ministry's OM dated 08.06.2022 at the time of appraisal of EC.

Further, the EAC asked the Proponent whether any nala passing through the mine lease area and whether any diversion of nala proposed. The Project Proponent informed the EAC that the a seasonal nala passes through the southern part of the mine lease area and 50 m safety barrier has been left on either side along nala and there will be no diversion of nala. The EAC asked the Project Proponent to submit the action plan for carrying out plantation along the nala, 7.5 m barrier & non-mineralized zone, 50 m safety zone of roads, electric lines and non-mineralized zone with no. of saplings proposed, type of saplings, spacing and the area to be covered including the timeline for completion of plantation. PP also informed that a public

road passing through the lease area on which the eastern side mining will be done and western side no mining will be carried out. 50 m safety barrier will be left on either side. Old Slab Quarries also exist in Northern and South Eastern Part of the Lease area, which exists before the mining lease was granted. Letter regarding the same has been obtained from State Government. The EAC also noted that the mine lease area seems to be in the vicinity of the forest patch and the EAC asked the Proponent to obtain the letter from the Forest Department in this regard.

After detailed deliberations, the EAC **recommended** the proposal in the 7th EAC (Non-Coal Mining) meeting held during 5-6 December, 2022 for grant of Terms of Reference (ToR) under the provisions of EIA Notification, 2006 and its subsequent amendments for M/s. UltraTech Cement Limited for mining of Limestone in Guruvanipalli Limestone Mine for expansion in Production Capacity of Limestone from 0.30 Million TPA to 4.00 Million TPA, Topsoil: 0.31 Million TPA (Total Excavation: 4.31 Million TPA) in the mine lease area of 395.15 ha, located at Village Guruvanipalli (Revenue Village: Petnikota), Taluka- Kolimigundla, District- Kurnool, Andhra Pradesh for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. In view of the agricultural land proposed under the mining lease area, the Project Proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and beneficiaries. The Project Proponent needs to submit the action plan for returning the land back to the farmers along with the timeline.
- ii. The Project Proponent needs to explore the possibility of deploying mobile crusher and also the action plan for shifting the crusher and its impact in the EIA report.
- iii. The Project Proponent needs to submit the phase wise plan for increase in production capacity from 0.30 to 4.0 MTPA. PP also needs to submit the comparison of list of machineries for the existing production capacity of 0.30 MTPA and the proposed production capacity of 4.0 MTPA.
- iv. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.

- v. 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.
- vi. The Project Proponent needs to carry out the cumulative impact assessment by considering all the mining activity including the transport scenario of the mines in the study area and should indicate the capacity of each mine considered for predication of air quality modeling. The control case and worst case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted.
- vii. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- viii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- ix. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- x. The Project Proponent needs to submit the action plan for carrying out plantation along the nala, 7.5 m barrier & non-mineralized zone, 50 m safety zone of roads, electric lines, non-mineralized zone and gap plantation with no. of saplings proposed, type of saplings, spacing and the area to be covered including the timeline for completion of plantation.
- xi. 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 through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xii. The EAC noted that the mine lease area seems to be in the vicinity of the forest patch and hence the EAC asked the Project Proponent to submit the list of Schedule - I species present in the lease area authenticated by PCCF and

the status of Forest land in the mine lease area, 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.

- xiii. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF)/Project Displaced Families (PDF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP need to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan. PP also needs to submit the possession certificate and timeline for acquiring the remaining land at the time of appraisal of EC.
- xiv. The Project Proponent needs to submit the Certified Compliance Report (CCR) as per Ministry's OM dated 08.06.2022 at the time of appraisal of EC.
- xv. The Project Proponent needs to submit the copy of the letter obtained from the State Government regarding the old slab quarries exists in Northern and South Eastern part of the lease area before the grant of mining lease at the time of appraisal of EC.
- xvi. The Project Proponent needs to submit the copy of the extension of validity of mine lease letter issued by the State Govt. vide order dated 12.02.2019 at the time of appraisal of EC.
- xvii. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

1.6 Granite (Building Stone) Quarry of M/s Palakkal Granite Product Pvt Ltd with the production capacity of 4,00,000 MT/annum in the mine lease area of 10.1903 ha located at Re Survey Block No -003, Re Survey Nos: 172/1527, 172/1232, 172/1228, 172/1213, 1523, 1862, 172/1212, 172/1134, 172/1137, 172/1201, 172/1221, 172/1120, 172/1238, 172/1136, 172/1135, 172/1119, 172/2275, 172/1526, 172/1200, 172/1239, 1240 of Kodyathur Village & Re Survey Block No -001, Un Survey Nos: 153/597, 153/598, 153/604, 153/601, 600 of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala - [File No:J-11015/107/2021-IA-II(NCM), Proposal No: IA/KL/MIN/240784/2021] –Terms of Reference

The instant proposal is for reconsideration of Terms of Reference for Granite (Building Stone) Quarry of M/s Palakkal Granite Product Pvt Ltd with the production capacity of 4,00,000 MT/annum in the mine lease area of 10.1903 ha, located at Re

Survey Block No -003, Re Survey Nos: 172/1527, 172/1232, 172/1228, 172/1213, 1523, 1862, 172/1212, 172/1134, 172/1137, 172/1201, 172/1221, 172/1120, 172/1238, 172/1136, 172/1135, 172/1119, 172/2275, 172/1526, 172/1200, 172/1239, 1240 of Kodyathur Village & Re Survey Block No -001, Un Survey Nos: 153/597, 153/598, 153/604, 153/601, 600 of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 11°17'46.03"N to 11°18'1.58"N and Longitude 76°2'56.36"E to 76°3'10.00"E. The mine lease area falls under the Survey of India Toposheet No. 58A/3 and falls in Seismic Zone III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals.
- iii. The proposal was earlier considered in the 43rd EAC (Non-Coal Mining) meeting held during 14th -16th December, 2021 wherein the Committee deferred the proposal for want of requisite information. The Project Proponent vide letter dated 27.07.2022 requested the Ministry to either forward the file to the SEAC Kerala or to grant standard ToR for which the DSR will be submitted along with final EIA report. Then, the Ministry on 22.08.2022 informed the PP that the decision regarding consideration of deferred cases for all minor & major (less than 250 ha) mineral to be consider at the Central level or State level is pending at Ministry. The proposal may consider accordingly. Again, the Project Proponent vide letter dated 11.10.2022 requested to consider the proposal for grant of Terms of Reference (ToR).
- iv. Accordingly, the instant proposal was considered in the 6th EAC (Non-Coal Mining) meeting held during 9-11, November, 2022 as per Ministry's OM dated 27.09.2022 wherein it is mentioned that "the proposals which have been considered/ appraised once by EAC either for TOR or EC, but final decision has not been taken, shall continue to be appraised at the Central level only, till final disposal for ToR/EC, even after the amendments in the EIA Notification are issued from to time regarding delegation of projects to SEIAAs". During the EAC meeting, the Member Secretary informed the EAC that the Project Proponent vide email dated 10.11.2022 sought for deferment of the proposal and exemption from presentation. The EAC did not agree to the request of exemption and deferred the proposal based on the request of the Project Proponent. Then, the Project Proponent vide letter dated 17.11.2022 requested the Ministry to consider the proposal in the EAC meeting and accordingly the proposal was reconsidered in the 7th EAC (Non-Coal Mining) meeting held during 5th - 6th December, 2022.
- v. The Project Proponent submitted that the Directorate of Mining & Geology issued the Letter of Intent vide No. 5794/M3/2020 dated 09.02.2021 for

extraction of Granite Building stone from an area of 10.1903 Ha. The total mine lease area of 10.1903 Ha is a private land.

- vi. The Project Proponent submitted that the Mining plan was approved by the Department of Mining & Geology vide Letter No. DOZ/M-2230/2021 dated 17/11/2021 for extraction of Granite Building stone over an area of 10.1903 Ha. The method of working will be open cast semi-mechanized method. Total minable reserve available is 39,49,573 MT of stone. The expected life of mine will be 10 years. The proposed bench height will be 5.0 m and bench width will be 5.0 m. The mineral will be transported through trucks/tippers. The ultimate pit limit will be +115 m MSL at conceptual stage. The ground water is well below the ground level as it is a hilly terrain.

- vii. Water requirement:

Total water requirement (KLD)	4.5 KLD	Dust suppression	2.0 KLD
		Greenbelt	1.5 KLD
		Drinking & Domestic	1.0 KLD
Source	Open well & Rainwater harvesting pit		

- viii. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Direction
Nearest Village	Nearest habitation within 119.70m	
Nearest Town	Thottumukkam	2.0 km
Nearest National Highway	NH766-Kozhikode-Waynad Hwy	25.0 km
	Koilandy Edavanna Rd (SH 34)	5.0 km
	Thottumukkam Koodaranhi Rd	2.0 km
Nearest Railway station	Kozhikode Railway Station	35 km, W
Nearest Airport	Calicut International Airport	40 km, SW
Nearest water bodies	Cherupuzha	2.0 km

- ix. The Project Proponent reported that there is no forest land involved in the mine lease area. There are no Bird sanctuaries, wild life sanctuary or National parks as per Wild life protection Act 1972. PP also submitted the letter from the Department of Mining & Geology, Kozhikode District vide Lr.No. DOZ/M-2027/18 dated 15.11.2021 stating that the two other quarries are in operation within 500 m radius.
- x. The Project Proponent submitted that there is no Rehabilitation and Resettlement involved in this proposal.
- xi. The Project Proponent submitted that there is no litigation pending against the project and/or land in which the project is proposed to be set up.
- xii. The Project Proponent submitted that the total cost of the project is Rs. 4.85 Cr and about 35 persons will get employment.

3. Observation and Recommendation of the Committee: -

The EAC noted that the Project Proponent earlier obtained two Environmental Clearances (EC) from the State Environmental Impact Assessment Authority (SEIAA), Kerala vide EC No. 137/SEIAA/2567/2013 dated 16.01.2016 over an extent of 5.8680 Ha (EC-1) and District Environmental Impact Assessment Authority (DEIAA), Kerala vide EC No. 14/DEIAA/KL/MIN/3102/2016 dated 23.09.2017 over an area of 2.280 Ha (EC-2). Now, the Project Proponent applied over an area of 10.1903 ha. The Project Proponent informed the EAC that both the mine leases are adjacent to the mine lease area and since the validity of the earlier EC's expired and now a fresh proposal has been submitted. The EAC on viewing the KML file noted that the mining has already been carried out inside the mine lease area. The EAC observed that there is a discrepancy in the statement and on viewing the KML file and the EAC opined that the proposal is not clear.

The EAC observed that the mine lease area is located in the vicinity of the ecologically sensitive and fragile area. The Granite Building Stone of small mine leases will ultimately lead to the fragmentation of habitat leading to creation of many edges which will act as point of entry of destructive factors overtime resulting in the overall ecological destruction of the area. It was also observed that some of the mines which were earlier in operation have left a scar on the lush green area. Therefore, the EAC **returned the proposal in the present form.**

Day 2: 06.12.2022 (Tuesday)

2.1 Expansion in Environmental Clearance of Mohanpura – Jodhpura Limestone Mine of M/s UltraTech Cement Ltd. for increase in Production Capacity of Limestone from 6.0 MTPA to 10.50 MTPA (ROM), 5.72 MTPA Waste rock, 0.53 MTPA clay/Sub soil and 0.05 MTPA, Top Soil generation (Total Excavation: 16.8 MTPA) with existing Crusher Capacity of 1600 TPH; proposed additional Crusher Capacity of 1600 TPH in the mine lease area of 548.78 ha, located at Villages Mohanpura, Kujota, Mahrampura (Rajput), Maharampura (Nawab), Kansli, Tehsil Kotputli, District Jaipur, Rajasthan - [File No. J-11015/350/2008-IA.II(M); Proposal No. IA/RJ/MIN/8653/2008] – Environmental Clearance

The instant proposal is for reconsideration of Environment Clearance (EC) for expansion in Environmental Clearance of Mohanpura – Jodhpura Limestone Mine of M/s UltraTech Cement Ltd. for increase in Production Capacity of Limestone from 6.0 MTPA to 10.50 MTPA (ROM), 5.72 MTPA Waste rock, 0.53 MTPA clay/Sub soil and 0.05 MTPA, Top Soil generation (Total Excavation: 16.8 MTPA) with existing Crusher Capacity of 1600 TPH; proposed additional Crusher Capacity of 1600 TPH in the mine lease area of 548.78 ha, located at Villages Mohanpura, Kujota,

Mahrampura (Rajput), Maharampura (Nawab), Kansli, Tehsil Kotputli, District Jaipur, Rajasthan.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude: 27°39'47.68"N to 27°41'40.74"N and Longitude: 76°06'27.61"E to 76°08'40.21"E. The mine lease area falls under the Survey of India Toposheet No: G43E2 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals & 2(b) Mineral Beneficiation (Crusher with Wobbler) and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The proposal was earlier considered in the 51st EAC meeting held on 30th May, 2022 wherein the Committee deferred the proposal due to want of the requisite information. The Project Proponent vide Lr. No:UTCL/ENV/MUM/2022/76 dated 15.06.2022 submitted the information and accordingly the proposal was reconsidered in the 2nd EAC (Non-Coal Mining) meeting held during 16th - 18th August, 2022 wherein the EAC was of the view that it is necessary to ascertain the ground reality on plantation, present mining status and status of R&R. The EAC was of the view that a site visit needs to be conducted by a sub-committee comprising of EAC Members and officers from MoEF&CC. The EAC advised to Ministry to constitute a sub-committee for site visit. The EAC noted that the project proponent failed to address the ADS points raised during last EAC meeting properly. Therefore, the EAC deferred the proposal and was of the view that proposal may be considered after the submission of the site visit report by sub-committee along with the requisite information. Considering the recommendations of EAC the Ministry vide order dated 13.10.2022 has constituted a Sub-Committee and accordingly, the site visit was scheduled on 28.10.2022. Thereafter, the report of the subcommittee was placed before the EAC (Non-Coal Mining) in its EAC meeting held during 9th - 11th November, 2022 and the EAC after detailed deliberation, the EAC agreed to the recommendations of the subcommittee report. The recommendations of the subcommittee report are given below:
 - I. Project Proponent needs to plant 2000 plants per hectares. As of now only 96321 plants were planted in 53 ha which is less. The current survival rate is less than 95%. Project Proponent should plant saplings of native and fruit bearing trees of 10 feet height. Permanent water sprinklers to be placed alongside the plantation. Plantation shall be re-conducted in consultation with the State Forest Department.
 - II. The Committee also recommended to take-up community and skill development activities in nearby villages and conducting rapid study

need based assessment to achieve specific SDGs with the help of the local community. R&R for the Kujota village to be completed within the scheduled time as submitted by Project Proponent.

- III. PP should maintain the pucca approach road that leads to mine entry/exit point. To reduce dust, water sprinkling is to be carried out at a regular interval. The muddy pavements alongside the approach road may either be grassed or permanent pavements may be created in consultation with local administration.
 - IV. Air and Noise quality monitoring at sensitive receptors and it's quarterly review by the Project Proponent time to time.
 - V. Operational Data of Environment Management Plan measures deployed at the mining site as well in buffer zone as advised during EC process.
 - VI. Strict compliance to Approved mining plan to be showcased through report annually.
 - VII. Plantations and social activity reports be submitted annually to IRO, Jaipur of the Ministry
 - VIII. Project Proponent should put up permanent sprinklers alongside the haul roads and programme it such that water is sprinkled at regular interval for better dust suppression.
 - IX. Project Proponent should reconstruct the garland drain around the dump site and maintain it properly.
- iv. The Project Proponent submitted the additional information sought by the EAC in its EAC meeting held during 16th – 18th August, 2022 and accordingly the proposal was reconsidered in the 7th EAC (Non-Coal Mining) meeting held during 5th - 6th December, 2022. Based on the observation of EAC and the compliance of observation of EAC made by the Project Proponent are detailed below:

S. No	Observation of EAC in EAC meeting held during 16 th – 18 th August, 2022	Reply by Project Proponent
1	The Project Proponent needs to submit the key observations of Integrated Regional Office report dated 29.05.2022 in PARIVESH w.r.t additional details sought point no.1.	The Project Proponent submitted the Certified Compliance Report issued by the Integrated Regional Office, Jaipur vide letter dated 29.05.2022 for the EC dated 30/04/2010. The project was Inspected/ Monitored on 24.05.2022. PP also submitted the descriptive report on status of Compliance to Conditions of Environmental Clearance dated 30/04/2010.
2	The Project Proponent needs to submit the incremental and	The Project Proponent submitted that the incremental and cumulative predicted ground

	<p>cumulative predicted ground level concentrations and isopleths of parameters such as SO₂ and NO_x w.r.t to removal of dump and its impact on transportation w.r.t additional details sought point no.3.</p>	<p>level concentrations have been predicted considering Drilling, Overburden loading, Limestone Loading, Haul Road, Overburden Unloading, Limestone Unloading, Exposed O.B. Dump, removal of dump, Exposed Pit Surface area and Transportation for parameter such as SO₂ and NO₂. PP also submitted the isopleth showing the predicted concentration for SO₂ i.e., 1.80 µg/m³ and NO₂: 1.76 µg/m³. The same has been given below:</p> <table border="1" data-bbox="759 658 1402 801"> <thead> <tr> <th>S. No</th> <th>Parameter</th> <th>Baseline (µg/m³)</th> <th>Predicted (µg/m³)</th> <th>Resultant (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SO₂</td> <td>15.60</td> <td>1.80</td> <td>17.4</td> </tr> <tr> <td>2</td> <td>NO₂</td> <td>26.30</td> <td>1.76</td> <td>28.06</td> </tr> </tbody> </table>	S. No	Parameter	Baseline (µg/m ³)	Predicted (µg/m ³)	Resultant (µg/m ³)	1	SO ₂	15.60	1.80	17.4	2	NO ₂	26.30	1.76	28.06
S. No	Parameter	Baseline (µg/m ³)	Predicted (µg/m ³)	Resultant (µg/m ³)													
1	SO ₂	15.60	1.80	17.4													
2	NO ₂	26.30	1.76	28.06													
<p>3</p>	<p>The EAC noted that the Project Proponent has the utilized the same baseline data of water quality for assessing the Langelier's saturation index. Hence, the Project Proponent needs to revise and submit the data for assessing Langelier's saturation index w.r.t additional details sought point no: 4.</p>	<p>The Project Proponent reported that the fresh water sample has been collected on 05.06.2022 for assessing the Langelier's saturation index. Parameters like pH was found to be 7.66, TDS: 396 mg/l, Total hardness: 259.68 mg/l and Fluoride: 0.22 mg/l. As per study, there is no scale formation. PP also submitted the copy of the analysis report of water sample collected on 05.06.2022.</p>															
<p>4</p>	<p>The EAC noted that the Project Proponent has considered only the impact of additional crusher on the housing colony and not considered the impact of road traffic adjacent to the mine w.r.t additional details sought point no.6. Hence, the Project Proponent needs to revisit the same and accordingly should the impact of road traffic adjacent to mine.</p>	<p>The Project Proponent reported that impact of road traffic adjacent to the mines have also been considered w.r.t Air quality and Noise level. Noise modelling has been done to assess the impact on nearby receptor and at road, it was found to be 45 dB(A). Air quality modelling has also been done and incremental value of PM₁₀ and PM_{2.5} is recorded as 1.07 µg/m³ and 0.428 µg/m³ respectively.</p>															
<p>5</p>	<p>The Project Proponent needs to submit the letter from the State Government regarding use & sale of Dolomitic Limestone as Minor Mineral for manufacturing of coarse aggregate/M-Sand as committed by the Project</p>	<p>The Project Proponent submitted the letter from the letter received from the Department of Mines & Geology vide letter dated 10.12.2021 regarding use & sale of Dolomitic Limestone as Minor Mineral for manufacturing of coarse aggregate/M-Sand. PP also submitted the report of the chemical</p>															

	Proponent during the meeting.	analysis of the Dolomite/Limestone samples vide letter dated 13.09.2021.
6	<p>As there is no mention of use & sale of Dolomitic Limestone as Minor Mineral in the State Government letter dated 26.06.2018 and in the mine lease deed executed on 31.01.2018, whereas the approved mining plan dated 17.09.2020 mentioned about the proposal to use & sale of Dolomitic Limestone as Minor Mineral for manufacturing of coarse aggregate/M-Sand. Project proponent needs to either include the minor mineral in the mine lease document or give an undertaking to stack/store (not to use) the minor mineral produced during the mining within the mine lease area.</p>	<p>The Project Proponent submitted that the mining lease has been granted for major mineral Limestone. Considering threshold value of limestone for cement manufacturing by Indian Bureau of Mines, Dolomitic Limestone occurring in the deposit is reject/waste rock. As per the recommendation of IBM as well as DMG, Rajasthan, it is suitable to use for manufacturing of as a coarse aggregate/M-Sand.</p> <p>PP also submitted that the letter has been obtained from the Asst. Mining Engineer, Department of Mines & Geology vide letter No SME/Kot/CC/Major/M.L-03/03 (R)/1961 dated 22.08.2022 wherein it has been clearly mentioned that <i>“Dolomitic Limestone (Overburden) is a type of waste which is found with cement grade limestone”</i>.</p> <p>Further, PP submitted that it is proposed to use the waste rocks of Dolomitic Limestone for captive purpose only in Cement Plant construction work for expansion project, which will fulfil sustainable mining policy of generating “Zero Waste”. LOI for 7,02,372 tonnes in the first year has been obtained from Office of the Department of Mines & Geology at Kotputli vide their letter no AME/Kot/CC/Major/M.L-03/03(R)/1585 dated 25.01.2022. In future, waste material of dolomitic limestone will be used for manufacturing of coarse aggregate/M-Sand for sale purpose after taking necessary approval from the Competent authority.</p>
7	<p>The Project Proponent needs to submit the District Survey Report (DSR) as per Ministry’s notification S.O 3611 (E) dated 25th July, 2018 in PARIVESH.</p>	<p>The Project Proponent submitted that the waste rocks of dolomitic limestone will be utilized for manufacturing of coarse aggregate/M-Sand for its captive use i.e. in house use in the new Cement Plant construction work in expansion project.</p>

		<p>There will not be any external sale. Also, Letter has been obtained from the Asst. Mining Engineer, Department of Mines & Geology vide letter No SME/Kot/CC/Major/M.L-03/03 (R)/1961 dated 22.08.2022 wherein it has been clearly mentioned that “Dolomitic Limestone (Overburden) is a type of waste which is found with cement grade limestone and in DSR report only Mining lease and type of Mineral is being given and dolomitic limestone (occurring as Overburden/ waste rock) is not part of it”.</p>
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- v. The details of the previous Environmental Clearance (EC) are furnished as below:

Date of application	File. No/ Proposal No	Consideration	Details	Date of accord
05.07.2005	IA/RJ/MIN/ 11226/2005 IA/RJ/MIN/ 11226/2005	-	Environmental Clearance for Mohanpura Jodhpura Limestone Mining Project of M/s Grasim Industries Limited for production capacity of 4.0 million tonnes per annum of Limestone by the opencast mechanised method involving total mining lease area of 548.78ha	17.08.2006
18.11.2009	J-11015/350/ 2008-IA.II(M) IA/RJ/IND/ 19855/2010	-	Environmental Clearance for Mohanpura Jodhpura Limestone Mining Project of M/s Grasim Industries Limited for an annual production capacity of 6.0 million tonnes of limestone by the opencast mechanised method involving total mining lease area of 548.78ha	30.04.2010
31.05.2017	J-11015/350/ 2008-IA.II(M)	-	Transfer of EC from “M/s Grasim Industries Limited” to “M/s Ultra Tech Cement Limited”	09.07.2020

			located at Village Mohanpura Jodhpura, Tehsil Kotputil, District Jaipur, Rajasthan (ML area 548.78 ha)	
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vi. The details of the Terms of Reference (ToR) are furnished as below:

Date of application	File No/ Proposal No	Consideration	Details	Date of accord
16.01.2020	J-11015/ 350/2008-IA- II (M) IA/RJ/MIN/ 136203/2020	February 26-27, 2020	Terms of Reference (ToR) for M/s. UltraTech Cement Ltd. for expansion in limestone production from 6.0 MTPA to 10.50 MTPA (ROM) with total excavation of 16.8 Million TPA [limestone 10.50 MTPA (ROM), 5.72 million TPA of Waste, 0.53 Million TPA of Clay/sub Soil and 0.05 million TPA of Top Soil] from Mining lease area of 548.78 Ha located in Villages: Mohanpura, Kujota, Mahrampura (Rajput), Maharampura (Nawab), Kansli, Kiratpura, Fatehpura, and Ajitpura, Tehsil: Kotputli, District- Jaipur, Rajasthan	09.07.2020

vii. Lease Details:

Initial mine lease	<p>i. Initially, the mining lease was granted to M/s. Rajasthan State Industrial Development and Investment Corporation Limited (RIICO) by State Government vide letter no. P.4 (302) Khan/Group-2/1981 dated: 29.06.1984 over an area of 548.78 ha for the period of 20 years.</p> <p>ii. The mining lease was registered on 05.07.1984 and the lease was effective from 05.07.1984 to 04.07.2004.</p>
First Transfer of mine lease	<p>i. The Mining Lease was transferred in name of M/s. Grasim Industries Limited on 18.02.2002. The mining lease was executed and registered on</p>

	06.03.2002 & 08.03.2002 respectively.
First Renewal of mine lease	i. First renewal of the mining lease was done on 13.10.2006, effective from 05.07.2004 for a period of 20 years. Then, the Mining Lease deed was executed and registered on 03.04.2007 & 10.04.2007 in name of M/s. Grasim Industries Limited.
Extension of Validity of mine lease	i. As per section 8A of MMDR Amendment Act, 2015; the validity of Mining Lease period has been extended up to 04.07.2034. Letter for the same has been obtained from Asstt. Mining Engineer, Kotputli vide letter no AME/Kot/CC/Pra./M.L.3/03 (R)/272 dated 10.03.2015.
Second transfer of mine lease	i. Mining lease was transferred from M/s Grasim Industries Ltd. to M/s UltraTech Cement Ltd. Vide State Govt letter no P.2 (62) Mines/Group-1/2006 dated 26.06.2018. Transferred lease deed was executed on 27.08.2018 and registered on 28.08.2018. ii. Subsequently, contract of Memorandum of Mining Lease transfer from Grasim Industries Ltd to UltraTech Cement Ltd has been issued by AME Office, Kotputli, DMG, Rajasthan vide letter no. AME/Kot/Reya/Pr/M.L.-3/2003 @/34 dated 30.08.2018. Lease deed executed by the State Government on 29.10.2018.

viii. Land Use/Land Cover of the Mine Leas Area:

Private Agriculture land	433.03 Ha
Government land (waste land)	115.75 ha
Total Mining lease area (MLA)	548.78 ha

ix. Mining plan details:

Approval of Modification in Review of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	584 (4)(3) (1830)/2020-RCOM-Ajmer
	Date	17.09.2020
	Mine Lease Area	548.78 ha
	Mineral	Limestone
	Validity	2023-24
Mining Parameters	Quantitative Description	
Method of Mining	Fully Mechanized Opencast Mining Method	
Life of mine	14.3 years considering the end of lease period and ~18 years considering total remaining reserves and continuity of the mining lease in the name of present company.	
Bench Height	10.0 m	

Bench Width	12.0 m to 20.0 m
Individual bench slope	82°
Overall pit slope	56°
Drilling/Blasting	<p>Drilling High-capacity equipment's are being/will be deployed. Drilling operation for blast holes is being/will be carried out for limestone/waste rock by crawler mounted 115 mm fast drills.</p> <p>The drill parameter:</p> <ul style="list-style-type: none"> • Average Spacing = 3.3 m • Average Burden = 4.3 m • Average height of bench = 10 m • Inclination of hole = 00 to 100 • Sub grade drilling = 0.5 m • Drilling required per hole = 10.5 m • Average bulk density = 2.5 Tonnes/m³ of in situ rock <p>Blasting Controlled blasting practices are followed in deep-hole blasting. Blast holes of 115 mm diameter (in staggered pattern) are charged with ANFO (Ammonium nitrate fuel oil) /SME (site mix emulsion) (90-95% of total explosive) & booster (<10% of total explosive).</p> <p>The details of blast parameters to be used in the mines are as under:</p> <ul style="list-style-type: none"> • Drill holes diameter (mm) = 115 • Burden (m) = 2.5 to 4 m • Spacing (m) = 3.5 to 5 • Bench Height (m) = 5 to 10 • Drill Hole Depth (m) = 6 to 11 • Stemming height (m) = 2.5 to 4 • Firing sequence = Hole to Hole (using NONEL)
RoM output size	<75 mm & < 50 mm (95%)
Transportation details	For transportation of the mined limestone material to crusher, heavy duty dumpers having carrying capacity of 55 tonnes are being/will be used. Crushed Limestone is being/ will be transported from crusher to the company's integrated cement plant via Covered Conveyor Belt, length of which is 1.7 km.
Dumpers capacity	55 tonnes
Additional information	<ol style="list-style-type: none"> i. <u>Till date</u>: At present 14.62 million Tonnes of waste (includes Waste rock, clay/Sub soil and Top Soil) has been generated. ii. <u>Up to conceptual stage</u>: about 30.53 million tonnes of waste (includes Waste rock, clay/Sub soil and Top Soil) will be generated. iii. Company has proposed to use Waste rocks for manufacturing of aggregates and M-Sand for Captive purpose in Cement Plant construction and

	<p>dispatch for which permission under Rule under Rule 12 (1) (k) of MCR, 2016 obtained from Office of the Department of Mines & Geology, Alwar, Govt. of Rajasthan vide their letter dated 10.12.2021 and from IBM, Ajmer vide letter dated 01.03.2021.</p> <p>iv. UTCL has a proposal for dispatch of 20 lakh tonnes/Annum of waste in which LOI for 7,02,372 tonnes in the first year has been obtained from Office of the Department of Mines & Geology at Kotputli vide their letter no AME/Kot/CC/Major/M.L-03/03(R)/1585 dated 25.01.2022 and remaining quantity of waste material will be dispatched after taking necessary approval from the Competent authority.</p>
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x. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Directions
Nearest village	Mohanpura	Falls in northern side outside the UPL of mining lease
	Kujota	Falls within lease area in SW direction
	Kansil and Jodhpura	Located outside the UPL within the mining lease
Nearest Town / City	Kotputli	~5.0 km, ENE
Nearest State/National Highway	NH-8 SH-37B	~2.5km, SE ~2.5 km, North
Nearest Railway Station	Dabla Railway Station	~28 km, NW
Nearest Water Bodies	Sota River	~2.5 km, West
	Sabi River	~9.0 km, SE

xi. Water requirement:

Total water requirement	190 KLD	Fresh water	182 KLD (Bore wells and Mine Sump Water)
		Treated Water	8 KLD [oil water separator (4 KLD) & STP Plant (4 KLD)]
Source	Bore wells and Mine Sump Water		
Permission	NOC for water withdrawal as well as for seepage has already been obtained from Central Ground Water Authority vide letter no 21-4(11)/WR/CGWA/2005-1696 dated 25.09.2017 vide letter no CGWA/NOC/IND/REN/2/2021/6324 valid from 25/09/2020 to 24/09/2022.		

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

Forest Land / Protected Area / Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	The Project Proponent reported that no forest land is involved within the mine lease area. Certificate has been obtained from Deputy Conservator of Forest, Jaipur vide letter no 1172-76 dated 08.02.2022. PP submitted that there are four Protected Forest are present in the 10 km radius study area.
National Park	No	The Project Proponent reported that there is no National Park, Wildlife Sanctuary, Wildlife Corridor, Tiger/ Elephant Reserves except 4 Protected Forest within 10 km radius study area. Letter along with authentication of location map obtained from Chief Wildlife Warden on 21.02.2022. Following PF are present in the buffer zone: i. Ramsinghpura PF (~6.0 km, NE) ii. Hasampura PF (~6.5 km, NW) iii. Patch of Protected Forest (~8.5 km, NNW) iv. Dantil PF (~9.0 km, WSW)
Wildlife Sanctuary & Forest	No	
Eco Sensitive Zone (ESZ)	No	
Schedule-I species	Yes	The Project Proponent reported that there are two Schedule I faunal species [Indian Peafowl (<i>Pavocristatus</i>) & Monitor Lizard (<i>Varanus bengalensis</i>)] are found in the study area. List of Flora and Fauna has been vetted by Forest Dept.
Wildlife Conservation Plan	Yes	PP submitted that the Wildlife Conservation plan for schedule-1 species has been granted by Chief Wildlife Warden (CWLW) vide letter dated 21.02.2022.

xiii. Green belt/plantation details:

Proposed area for green belt/plantation	166 ha
Budget for green plant & plantation till the end of life of mine.	Rs. 5.24 Crore
Additional information	At the conceptual stage, total 166 Ha will be covered under greenbelt/plantation including, 8.20 ha on 7.5 m UPL of mining lease, 99.59 ha on waste dump/waste land, 44.21 ha on unworked area and 14.0 ha on mined out benches) under plantation at the end of conceptual period. Density of plantation would be 2000 trees/ha.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	8.20 ha

xiv. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	December, 2019 to February, 2020
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season
Ambient Air Quality (8 locations)	PP reported that the Ambient Air Quality Monitoring reveals that the concentrations of PM ₁₀ and PM _{2.5} for all the stations were found between 52.9 to 91.3 µg/m ³ and 28.3 to 52.8 µg/m ³ , respectively. The concentrations of SO ₂ and NO ₂ were found in the range of 5.6 to 18.4 µg/m ³ and 12.8 to 36.6 µg/m ³ respectively.
Noise monitoring (8 locations)	Day Time: 52.9 dB (A) – 69 dB (A) Night Time: 43.1 dB (A) – 59.6 dB (A)
Groundwater quality (8 locations)	PP reported that the pH of the water samples ranged from 7.67 to 8.05 indicating slightly alkaline to moderately alkaline nature. The colour was BDL, and odour and taste were agreeable at all sampling locations. Total hardness found to be 206.7 to 498 mg/l, Alkalinity: 285.65 to 502.35 mg/l) and Total Dissolved Solids found to be 487 to 917 mg/l.
Surface water quality	PP submitted that the following surface water bodies are present within 10 km radius of the study area namely Sota Nadi (~ 4 km, West) & Sabi Nadi (~ 9.5 km, SE). Surface water samples were not collected from the above locations as all the water bodies are seasonal and were found dry during the study period.
Soil quality (8 locations)	The soil samples were reddish brown in colour and silty loam in texture. All soil samples are found to be neutral to slightly alkaline having pH range from 7.56 to 7.91. Water holding capacity found to be 34.6 % to 41.3 % and bulk density: 1.37 to 1.46 g/cc. Organic matter found to be 0.56 % to 0.86 %, Nitrogen 146.87 to 287.54 kg/ha, Phosphorus: 31.5 to 53.6 kg/ha and Potassium: 187.3 to 263.5 kg/ha.

xv. Public Hearing details:

Advertisement for PH with date	The “DainikBhashkar and DivyaNavjyoti” on 19.08.2020
Date of PH	22.09.2020
Venue	Government Senior Secondary School, Village

	Kujota, Tehsil Kotputli, District Jaipur (Rajasthan)
Chaired by	1. Dr. Satyaveer Yadav, Additional District Collector of Kotputli, District-Jaipur, 2. Shree V.S. Sankhala, Regional Officer of Rajasthan State Pollution Control Board, Jaipur
Main issues raised during PH	Issues raised during public hearing were about Land acquisition, Employment, Plantation, maintenance of road, Health care facility, Infrastructure Development, Impact of blasting on habitation, Air Pollution, Groundwater, Rainwater harvesting, Renovation of Aganwadi Centre etc.
Budget proposed for addressing issues raised during PH	Rs. 3.00 crores

xvi. Court case details:

Court Case	Project Proponent submitted an undertaking vide letter dated 06.12.2022 stating that there is no litigation pending against the project and or/any direction/order passed by any court of law against the project and/or land in which the project is existing and the unit has not received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant sections of Air and Water acts and that for any such litigation whatsoever, the sole responsibilities will be borne by the company.
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xvii. Details of CTE/CTO, Previous EC Compliance, Past Production details:

Consent for Establishment	PP submitted the Consent for Establishment obtained from Rajasthan Pollution Control Board vide Order No. F.12 (Mine-51)RPCB/Gr III/2805 dated 02.04.2007 for 4.0 MTPA of Limestone Production Capacity in favor of M/s. Grasim Industries Limited. PP also submitted the Consent for Establishment obtained from Rajasthan Pollution Control Board vide Order No. F(Mines)/Jaipur (Kotputli)/8(1)/2008-2009/6217-6221 dated 04/01/2011 for 6.0 million TPA of Limestone Production Capacity in favor of M/s. Ultratech Cement Limited.
Consent for Operation	PP submitted the Consent to operate issued by the

		Rajasthan Pollution Control Board vide F(Mines)/JAIPUR(Kotputli)/253(1)/2017-2018/216-220 dated 07.04.2022 and valid upto 31.03.2027 for 6.0 million TPA Limestone Production Capacity in favor of M/s. Ultratech Cement Limited.
Certified Compliance report	EC	PP submitted the Certified Compliance Report issued by the Integrated Regional Office, Jaipur vide letter no IV/ENV/R/MINE-482/792/2010/SPL-7 dated 05/02/2021. Site Visit was conducted on 06.01.2021. PP also submitted the Certified Compliance Report issued by the Integrated Regional Office, Jaipur vide letter dated 29.05.2022 for the EC dated 30/04/2010. The project was Inspected/ Monitored on 24.05.2022. PP also submitted the descriptive report on status of Compliance to Conditions of Environmental Clearance dated 30/04/2010.
Past Production details		PP submitted the past production details certified by Dept of Mines and Geology, Kotputli vide letter no AME/Kot/CC/Major/ML-3/2003/671 dated 16.11.2021 for the period 2007-08 to 2021-22 (April 2021 - October 2021).

xviii. Rehabilitation & Resettlement:

R & R details	The Project Proponent reported that the total mining lease area is 548.78 ha which spreads in villages namely Mohanpura, Kujota, Maharampura (Rajput), Maharampura (Nawab), Kiratpura, Fatehpura, Kansli, Ajitpura, etc. Out of total Mining Lease area, 433.03 ha is Private agricultural land, 115.75 ha is Government Land (Waste Land). Village settlements of Mohanpura, Kujota, Mehrampur (Rajput), Mehrampur (Nawab), Kansil, Kiratpura, Fatehpura and Ajitpura falls within the lease areas well as in the surroundings. As on date, 325.33 ha area is under possession of Company. Till date part of one village namely Monhanpura has been properly rehabilitated. Another village namely Kujota needs rehabilitation, which is planned to be shift after lease validity period (Year 2034).
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xix. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent submitted an Notarized Affidavit dated 24.03.2022 stating that the company hereby undertakes to comply with all the statutory requirement & judgments of Hon'ble Supreme Court dated 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
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xx. Details of the Environment Management Plan:

Proposed Cost Breakup for Environment Protection (Rs. In Lakh):

S. No.	Activities	Capital	Recurring
EMP for Pollution Control & Monitoring			
Mitigative Measures			
1	Water tankers for sprinkling on haul roads and mining areas/activities (Proposed two tankers)	30.00	23.20
2	Wet drilling & operation of dust extractors during drilling (In-built systems)	0.00	35.78
3	Soil Compactor for haul road maintenance	0.00	6.18
4	Motor Grader for haul road maintenance- Expansion of mine	57.00	14.50
5	Bag house at existing & New Crusher (1600 TPH Capacity)	75.00	10.30
6	Pollution Control Device (Bag filters at transfer points) Equipment and its installation Cost, Operation & Maintenance	10.00	3.60
7	Sprinkling system at crusher hopper and transfer points (Proposed 1600 TPH Capacity)	7.00	0.48
8	Greenbelt/Plantation will be carried out in 113 ha till 2038 on waste dumps/ waste land and mined out benches with cost of Rs.524 Lakh in 17 years.	131.00	21.84
9	Three number of ground water recharging pits, channels for diverting water, etc.	0.00	0.50
10	Provision of Garland Drains around OB dumps: (L*W*D = 4000 m x 1.5 m x 1.5 m).	2.00	0.50
11	Construction of Retaining Wall around OB dumps Proposed: (L*W*H = 2000 m x 0.45 m x 1.5m)	96.00	0.50
12	Siltation ponds at dump sites of size: (L*W*D=40mX40mX1.5m) Proposed: 4 nos.)	2.00	0.10
13	Oil-water separator at mines workshop	5.00	0.25
14	Controlled blasting for minimizing ground vibration, fly rock, air pressure/ noise, etc. by Using Nonel and Exel	0	39
15	Providing Ear muffs/plugs to workers working in high noise area	0	0.15
	Sub Total	415.00	156.88
Monitoring			
1	Piezometer with Digital Water Level Recorder & Telemetry	0.00	1.00
2	Ground water quality analysis (Piezometer Wells, 4 times in a year)	0.00	0.10
3	Work Place Noise Level Monitoring (4 no. of locations & quarterly frequency)	0.00	0.50
EMP Cost for public hearing			
1	Estimated Budget for Addressing the Public Hearing	300.00	15.50

	Issues		
Grand total		715.00	173.98

Summary of the EMP details:

S. No.	Activities	Existing Cost (Lacs)		Proposed Cost (Lacs)		Total Cost (Lacs)	
		Capital	Recurring	Capital	Recurring	Capital	Recurring
1.	Mitigative Measures	322.49	332.26	415.00	156.88	737.49	489.14
2.	Monitoring	90.30	14.16	00.00	1.60	90.30	15.76
3.	Others- Digital mapping of the entire lease area once in five years	0.00	1.50	0.00	0.00	0.00	1.50
4.	EMP Budget for public hearing	0.00	0.00	300.00	14.50	300.00	14.50
	Total	412.79	347.92	715.00	172.98	1127.79	520.9

xxi. Details of project cost and employment:

Particulars	Budget
Total Cost for EMP (Capital Cost of EMP + capital cost of public hearing)	11.28 crore (8.28 Crore + 3.00 crore)
Project Cost	66.05 Crore
Employment	147 Persons

3. Observation and Recommendation of the Committee: -

The EAC noted that the instant proposal is for reconsideration of Environmental Clearance (EC) for mining of Limestone in Mohanpura – Jodhpura Limestone mine for increase in Production Capacity of Limestone from 6.0 MTPA to 10.50 MTPA (ROM), 5.72 MTPA Waste rock, 0.53 MTPA clay/Sub soil and 0.05 MTPA, Top Soil generation (Total Excavation: 16.8 MTPA) with existing Crusher Capacity of 1600 TPH; proposed additional Crusher Capacity of 1600 TPH in the mine lease area of 548.78 ha. The EAC also noted that in EAC (Non-Coal Mining) meeting held during 16th - 18th August, 2022, the EAC deferred the proposal and was of the view that proposal may be considered after the submission of the site visit report by sub-committee along with the requisite information. Further, the EAC noted that considering the recommendations of EAC the Ministry vide order dated 13.10.2022 has constituted a Sub-Committee and accordingly, the site visit was conducted by the Sub-Committee on 28.10.2022. Thereafter, the report of the subcommittee was placed before the EAC (Non-Coal Mining) in its EAC meeting held during 9th - 11th, November, 2022 and the EAC after detailed deliberation, the EAC agreed to the recommendations of the sub-committee report.

The Project Proponent presented the action plan for recommendations of the sub-committee report before the EAC which are given as follows:-

- i. Gap Plantation of 13,500 nos. of saplings is required to maintain the desired density & survival rate will be met by planting the native species saplings during next monsoon. Fruit bearing plants (Jamun, Mango, Guava etc) of approx 10 ft will be planted. Plantation will be done in consultation with State Forest Department. Permanent water sprinklers are being installed at part of the road and it will be completed by 15th January, 2023.
- ii. Company is already doing work in field of Community and skill development in village Mohanpura. The rapid study need based assessment study will be conducted. The budget of Rs. 1253 Lakhs has been allocated for CSR activities (education & capability, Health Care, Sustainable Livelihood, Infrastructure development, Social causes) in next 5 years. In addition to this, company has a proposal for Construction of Skill Development cum Community Center in Village Kujota during year 2024 – 2025 with an amount of Rs. 60 lakhs. R& R of Kujota village is in progress and will be completed by March 2024.
- iii. As recommended by the subcommittee, targeted area linking approach road to mine entry/exit will be made pucca by December, 2023. (Dimensions: 125 m*12 m). To reduce dust, only one water tanker is being deputed and now as per recommendation, two no. of water tanker with sprinklers of 10 KL capacity deputed. Flowering plants/shrubs have been planted on the muddy pavements alongside the approach road. In addition, grass will also be developed.
- iv. Quarterly monitoring of Air and Noise quality is regularly carried out at Core Zone as well as Buffer zone (at 4 stations in each zone) as per EC condition with the help of NABL/MoEFCC/RSPCB approved agency. 4 stations in buffer zone includes village Mohanpura, Kansli, Gordhanpura & Ajeetpura. One Online CAAQMS station at mine lease area behind ER office at gate no. 2. Monitoring of Peak Particle Velocity & air pressure/ noise at nearest habitations is regularly being done Ambient Noise Monitoring at 8 no. of stations (4 each in core zone and buffer zone) is regularly being done. Work Place Noise Level Monitoring (4 no. of locations & quarterly frequency). Quarterly review of the monitoring results will be carried out with focus on sensitive receptors.
- v. Operational Data of Environment Management Plan measures deployed at the mining site as well in buffer zone as advised during EC process are regularly reviewed and required measures are taken to curb impact.

- vi. Strict compliance to Approved mining plan is adhered and annual report is submitted to IBM as per MCDR inspection compliance.
- vii. Plantation report is regularly submitted in six monthly EC compliance report. Social activity report will also be sent along with EC compliance report. The social activity reports are regularly submitted i.e. annually in the Environmental Statement Report as per CTO condition compliance submitted to IRO, Jaipur as well as to RSPCB.
- viii. Permanent water sprinkler installed in haul road connecting to limestone crusher unloading point.
- ix. Garland drains have been already provided for existing dumps with the dimension of 6500 m x 1.5 m x 1.5m and are cleaned and maintained regularly in pre -monsoon as well as in post- monsoon.
- x. Garland drains dimensions are being re-constructed will be increased to the dimension (L*W*D = 6500 m x 2.0 m x 2.0 m) as per the size of the progressive dumps and the same will be properly maintained. The Practice will be regularly followed. Stone pitching of garland drain is being started.

Then, the Project Proponent presented the additional details sought by the EAC. The Project Proponent informed the EAC that the Certified Compliance Report issued by the Integrated Regional Office (IRO), Jaipur vide letter dated 29.05.2022 for the EC dated 30/04/2010 and the project was monitored on 24.05.2022. PP also informed the EAC that IRO has provided the descriptive report on the status of compliance to conditions of Environmental Clearance dated 30/04/2010. The incremental and cumulative predicted ground level concentrations have been predicted considering drilling, overburden loading, limestone loading, haul road, overburden, unloading, limestone unloading, exposed O.B dump, removal of dump, exposed pit surface area and transportation for parameter such as SO₂ and NO₂ and the cumulative concentration for SO₂ was found to be 17.4 µg/m³ and NO₂: 28.06µg/m³. Fresh water sample was collected on 05.06.2022 for assessing the Langelier's saturation index. Parameters like pH was found to be 7.66, TDS: 396 mg/l, Total hardness: 259.68 mg/l and Fluoride: 0.22 mg/l. As per study, there is no scale formation. Noise modelling has been done to assess the impact on nearby receptor and at road, it was found to be 45 dB(A). Air quality modelling has also been done and incremental value of PM₁₀ and PM_{2.5} is recorded as 1.07 µg/m³ and 0.428 µg/m³ respectively.

The EAC noted that the Project Proponent has informed the EAC that the letter was obtained from the Department of Mines & Geology vide letter dated 10.12.2021 regarding use & sale of Dolomitic Limestone as Minor Mineral for manufacturing of coarse aggregate/M-Sand. PP also informed that letter also obtained from the Asst. Mining Engineer, Department of Mines & Geology vide letter No SME/Kot/CC/Major/M.L-03/03 (R)/1961 dated 22.08.2022 wherein it has been

clearly mentioned that “Dolomitic Limestone (Overburden) is a type of waste which is found with cement grade limestone”. The EAC was of the view that as per Indian Bureau of Mines, Ministry of Mines, “*Dolomite (CaCO₃.MgCO₃) theoretically contains CaCO₃ 54.35% and MgCO₃ 45.65% or CaO 30.4%, MgO 21.9% and CO₂ 47.7%. However, in nature, dolomite is not available in this exact proportion. Hence, in commercial parlance, the rock containing 40-45% MgCO₃ is usually called dolomite. Dolomite rock that contains either calcite or a mixture of calcite & magnesite in addition to dolomite is called "Dolomitic Limestone". As per Ministry of Mines vide Notification no. GSR 333 dated 10.02.2015, Dolomite is classified as Minor Mineral.* Thus, the EAC opined that the Dolomitic Limestone is not allowed for the purpose of dispatch.

After detailed deliberations made by the Project Proponent and the Consultant in 7th EAC (Non-Coal Mining) meeting held during 5-6 December, 2022 the EAC **recommended** the proposal under the provisions of EIA Notification, 2006 for grant of Environmental Clearance (EC) for mining of Limestone in Mohanpura – Jodhpura Limestone Mine of M/s UltraTech Cement Ltd. for expansion in Production Capacity of Limestone from 6.0 MTPA to 10.50 MTPA (ROM), 5.72 MTPA Waste rock, 0.53 MTPA clay/Sub soil and 0.05 MTPA, Top Soil generation (Total Excavation: 16.8 MTPA) along with existing Crusher Capacity of 1600 TPH; proposed additional Crusher Capacity of 1600 TPH in the mine lease area of 548.78 ha, located at Villages Mohanpura, Kujota, Mahrampura (Rajput), Maharampura (Nawab), Kansli, Tehsil Kotputli, District Jaipur, Rajasthan subject to the following specific conditions in addition to the standard EC conditions applicable for non-coal mining projects: -

- i. The Environmental Clearance (EC) will be valid till 04.07.2034 only.
- ii. Dolomitic Limestone shall be stacked and stored within the mine lease area.
- iii. Strict compliance to Approved mining plan to be showcased through report annually.
- iv. The Project Proponent shall continue to monitor the air quality, noise level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Integrated Regional Office.
- v. The real time data generated by Continuous Ambient Air Quality Monitoring Station (CAAQMS) should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- vi. The Project Proponent should maintain the pucca approach road that leads to mine entry/exit point. PP needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine

area. The muddy pavements alongside the approach road may either be grassed or permanent pavements should be created in consultation with local administration.

- vii. Project Proponent should reconstruct the garland drain around the dump site and maintain it periodically and the construction of the same shall be completed by May, 2023. The same shall be intimated to the Ministry's Integrated Regional Office along with the photographs.
- viii. The Project Proponent shall maintain the overall slope as per the Mines Act and Rules.
- ix. The Project Proponent shall explore the possibility of using atleast 20% of electric vehicles instead of diesel operation within three years.
- x. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.
- xi. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 8.28 Cr. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xii. The budget of Rs 3.0 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xiii. The Project Proponent shall ensure the survival rate of 95% for planting the new plantation and gap plantation. The project Proponent should plant quality saplings of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be re-conducted in consultation with the State Forest Department. Permanent water sprinklers to be placed alongside the plantation. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of

95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office. Project proponent should complete the 7.5 m boundary plantation within next monsoon season.

- xiv. The Project Proponent needs to undertake the community and skill development activities in nearby villages by conducting rapid study need based assessment to achieve specific SDGs with the help of the local community. R&R of Kujota Village should be completed by March 2024. The implementation of the same shall be submitted to the Ministry's Integrated Regional Office.
- xv. The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs in line with the policy and guidelines of the Central/State Government, as provided under the law in such a way that the compensation should benefit the current and future generation.
- xvi. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- xvii. 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.
- xviii. NoC from the Central Ground Water Authority (CGWA)/ Concerned Local authority, as the case may be, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- xix. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xx. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition

which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Integrated Regional Office.

2.2 Mahulsukha Iron and Manganese Ore Block of M/s Patnaik Minerals Private Ltd for mining of Iron and Manganese Ore in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR), with proposed production capacity of Iron Ore: Total Excavation: 1.662977 MTPA; ROM: 1.0MTPA and Manganese Ore: Total Excavation: 1.407519 MTPA; ROM: 0.15MTPA, located at Villages Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tehsil, Sundargarh District, Odisha - [F. No: J-11015/75/2020-IA-II(M), Proposal No: IA/OR/MIN/180360/2020, Consultant: Kalyani Laboratories Pvt. Ltd.] - Environmental Clearance

The instant proposal is for mining of Iron and Manganese in Mahulsukha Iron and Manganese Ore Block of M/s Patnaik Minerals Private Ltd with proposed production capacity of Iron Ore: Total Excavation: 1.662977 MTPA; ROM: 1.0 MTPA and Manganese Ore: Total Excavation: 1.407519 MTPA; ROM: 0.15 MTPA, in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR), located at Villages Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tehsil, Sundargarh District, Odisha.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude: 21°46'52.12" to 21°49'04.55"N and Longitude: 85°07'55.43" to 85°09'10.42"E. The mine lease area falls under the Survey of India Toposheet No: 73/G1 and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The proposal was earlier considered in the 52nd EAC meeting (Non-Coal Mining) held during 14th-15thJune, 2022 wherein the EAC was of the view that the Consultant were not able to bring out the technical details, observed to be unprepared and the performance of the consultant was not satisfactory and further the EAC asked the Consultant to revise the technical presentation. Based on the discussions held and detailed deliberations, the EAC deferred the proposal for want of requisite information. The Project Proponent submitted the information on 25.08.2022 in Parivesh portal. The Ministry examined the proposal and found that the Project Proponent submitted the information for the 13 no. of points only and hence requested the Project Proponent to submit the complete information on Parivesh portal. Accordingly, the Project Proponent submitted the information on 22.09.2022 in Parivesh

portal and the proposal was reconsidered in the 5th EAC (Non-Coal Mining) meeting held during 18-20, October, 2022 wherein the EAC deferred the proposal. Then, the Project Proponent submitted the information on 15.11.2022. Accordingly, the proposal was reconsidered in the 7th EAC (Non-Coal Mining) meeting held during 5th - 6th December, 2022.

Based on the observation of EAC and the compliance of observation of EAC made by the Project Proponent are detailed below:

S. No	Observation of EAC in EAC meeting held during 18-20, October, 2022	Reply by Project Proponent
1	The EAC was of the view that the Project Proponent needs to give proper breakup of the mine lease area in tabular form by mentioning the details of Forest Clearance available.	<p>The Project Proponent submitted that the total mine lease area is 390.317 ha (as per DGPS), out of which total forest land is 370.751 ha as per Land Schedule issued by Tahasildar Lahunipada, vide Letter No. 2881, Dt: 28.09.2020. Total Forest Land already diverted by previous lessee is 227.00 ha {78.119 ha (already broken up) + 148.881 ha (fresh forest land)}. Forest proposal vide proposal No. FP/OR/MIN/51823/2020, dated 23.10.2020 over an area of 370.751 ha was submitted as per the land schedule of the State Government allotted to us previous lessee.</p> <p>After scrutiny of the proposal by Divisional Forest Officer, Bonai and issued Letter to Tahasildar, Lahunipada, Range Officer Barsuan and Project Proponent Letter vide Memo No.9890/6F-Dt:03.12.2020w.r.t. verification of land schedule in field as well as revenue record. Accordingly, there was a joint verification conducted by Revenue Department and Forest Department, Odisha on 02.01.2021 and found to be the Forest area of 382.437 Ha. Subsequently, Project Proponent submitted the fresh proposal for diversion of 382.437 ha of forest land vide Proposal No. FP/OR/MIN/122038/2021 dated 19.04.2021.</p> <p>Further, PP submitted that the total mine lease area is 390.317 ha, out of which forest land is 382.437 ha and Non-Forest land is 7.88 ha. Land proposed for Mining and allied activities during conceptual period (As per approved mining plan): 227.00 Ha (Within Diverted</p>

		<p>Forest Land).</p> <p>The previous lessee deposited NPV for an amount of Rs. 27,56,20,290/- for entire Forest area over 377.563 ha @ Rs. 7.30 lakhs/ha. PP also submitted that NPV amounting to Rs. 27,60,32,250/- over an area of 368.043 ha has been deposited as per Demand Notice of State Forest Department vide Demand Notice No. 3987/6F, Dtd: 08.04.2020. PP submitted that for transfer of forest clearance over an area of 227.0 ha, transfer fees of Rs. 1,00,000/- has been deposited vide Challan No. N327211722825977, dated 23.11.2021.</p>
S. No	Observation of EAC in EAC meeting held during 14th-15th June, 2022	Reply by Project Proponent
1	As committed by the Project Proponent, mining operation shall be stopped if the validity of the vesting order is not extended beyond 28.06.2022 (executed the mine lease deed on 29.06.2020) since EC/CTO has not been obtained within the stipulated 2 years timeline.	The Project Proponent submitted that the mining operation is being continued for production of 40,000 TPA Manganese ore based on subsequent Vesting Order issued by Steel and Mines Department, Govt. of Odisha vide order no. 2076/SM/ SM-MC1-MIS.0017-2020 dated 07.03.2022 stating that the all the valid rights, approvals, clearances, licences and the like vested in the previous lessee in respect of the mining block are deemed to have vested and transferred in favour of the holder of the letter of intent on the same terms and conditions of every rights, approvals, clearances, licenses and the like which vested with previous lessee till expiry or termination of mining lease granted. The order is the partial modification to the previous Vesting Order Vide No. 4246/SM dated 30.05.2020. PP also submitted that the transfer process of all statutory approvals/clearances are being undertaken by the concerned Department of State/Central Govt.
2	The Project Proponent needs to comply the Specific Terms of Reference (ii) w.r.t Compliance of mining plan, including waste and OB dump management, mine	<p>I. Compliance of mining plan and Mine Closure Plan:</p> <p>The Project Proponent submitted that the previous mining plan was approved by Indian Bureau of Mines (IBM) vide approval No MPM/OTFM/24-ORI/BHU/2018-19/1367 dated 06.09.2018 in favour of M/s Aryan Mining and Trading Corporation Limited. After the auction of the lease the mining</p>

<p>closure plan etc., Compliance to Common cause judgment, Status of R&R, Compliance of plantation, Compliance of public hearing issues and Status of complaints/ court cases/legal action.</p>	<p>plan has been prepared by M/s Patnaik Minerals Private Limited and has been approved the IBM, Ministry of Mines vide letter no. MP/A/17-ORI/BHU/2020-21 dated 01.10.2020. The mining activity in the lease area is continuing as per the previous mining details and production plan. The new mining plan will be effective after obtaining environment clearance as this proposal is for enhancement in production from the lease area.</p> <p>PP also submitted that earlier the mine was operated by M/s AMTC for only Manganese ore. It was A-Category mines and operated by other than Semi mechanised Method in two shift basis. The mining operation is being continuing as per the existing method of mining.</p> <p>Further, PP submitted that earlier the waste generated from the mines has been dumped in the non-mineralized area. Out of 6 waste dumps, at present only one active dump is there where the present waste is being dumped. The precautionary and protective measures adopted as per the EC and mining plan. Mine closure plan has been prepared by M/s Patnaik Minerals Private Limited and approved by concerned authority as per the present proposal for enhancement in production of manganese ore and production of Iron ore from the lease area.</p> <p>II. Compliance to Common cause judgment:</p> <p>The Project Proponent submitted that as the lease has been granted in favour of M/s Patnaik Minerals Private Limited on 29.06.2020, the common cause judgment is not applicable for this mine.</p> <p>III. Compliance to R&R:</p> <p>The Project Proponent submitted that as the lease area is devoid of any human habitation/ villages, No R& R plan involved in the project.</p>
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		<p>IV. Compliance to plantation:</p> <p>The Project Proponent submitted that at the time of lease allocation, the safety zone plantation along 7.5 m lease boundary has been completed by the previous lessee (9.066 Ha) with a count 23,150 no.s. The safety zone plantation over an area of 6.7 Ha along the road side and 28.134 Ha along Nala have been already undertaken with a count of 18,000 no.s and 82,000 no.s respectively by the previous lessee. Further backfilled area and dump plantation on dead dumps has been carried out over an area of 19.85 Ha with a count of 57,559 no.s. The existing plantations within the lease area are well grown. PP also submitted that an amount of Rs.58.0 Lakhs has been allocated for development of greenbelt and annual expenses for green belt maintenance will be Rs. 10.0 Lakhs.</p> <p>V. Compliance to Public Hearing:</p> <p>The Project Proponent submitted that the earlier public hearing details are not available with the present lessee. However, six monthly compliance report of previous EC was being regularly submitted to Integrated Regional Office, MoEF&CC.As this is the proposal for enhancement, a fresh public hearing was conducted by M/s Patnaik Minerals Private Limited on 8.10.2021at Bhutuda Gram Panchayat Office under Lahunipada Block of Sundergarh District as per EIA Notification, 2006. The demands/ grievances of the public have been taken up seriously and will be complied within three years of implementation period. The PP has already started complying to the present public demand.PP earmarked a budget of Rs 242.50 Lakhs to address the concerns of the public hearing.</p> <p>VI. Compliance to Status of complaints/ court cases/legal action:</p> <p>The Project Proponent submitted that no</p>
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		complaints/ court cases and legal action have been taken against the project.
3	<p>The EAC observed that the two perennial nalah flow from the eastern part and Rajabasa nalah flow from the SW part of the lease area. These perennial nalah merge to form the Bhutuda nalah which flows within the mine lease area and drains into Kurarhi nalah in the north part outside ML area. Hence, the Project Proponent needs to submit the nalah protection plan for two perennial nalah, Bhutuda nala flowing within the lease area and Kurarhi nalah in the north (outside) of mine lease area. PP shall also submit the detailed measures taken to prevent the chance of surface runoff from the quarry and dump area which flow down to the nala flowing within the lease area as the mining activity in the lease area may lead to blockage of flow of water in the lease area. PP shall ensure that the dumps should be 300m away from</p>	<p>The Project Proponent submitted that the core zone (lease area) is made up four hilly blocks dissected by the natural streams at many places with varying slope. One perennial nalah flow from the eastern part and one perennial nala locally known as Rajabasa nala flow from the SW part of the lease area. These perennial nalah merge to form the Bhutuda nala which flows towards north and finally drains into Kurarhi nala in the north part outside ML area. PP submitted the management plan for nalah as mentioned below:</p> <ul style="list-style-type: none"> i. The fresh dumping on dump 4 will be done at a minimum distance of 300 m from the boundary of nala which has been already demarcated. ii. A safety zone of 50m has been already demarcated and no mining, dumping and transportation activities will be carried out in the safety zone. iii. The nala was crossing at two pints of transportation road. So, there is the proposal for construction of culvert over the nala for transporting material from the quarry site. Out of the two culverts one has already been constructed and other one will be constructed during this year. iv. The nala which is flowing near to the quarry area and dumping area will be stone patched. <p>PP also submitted the map showing the safety zone demarcated along the nala and road. Further the location of culverts on the nala is also demarcated in the map.</p> <p>Surface water runoff management:</p> <p>The Project Proponent submitted that the perennial water flow is towards North & NE. The planning for surface water runoff management has been designed for rainy season. The seasonal drains will be channelized in such a way that the rain water from the catchment area will allow to flow through series of settling pond so no surface runoff water will carry mines runoff sediments to the nala. The existing and proposed protective measures like retaining wall,</p>

<p>nalah and needs to submit the action plan for monitoring of surface water quality in the above said nalahs.</p>	<p>garland drain and settling pond will act as barrier for restricting the wash offs from the dumps/stockyards etc. PP also submitted that the good run off water management practices are being followed by the earlier lessee to prevent the flow of silt along with the run off to outside during monsoon period. The lessee has constructed eight nos. of check dam cum siltation pond inside the mine lease area; five of them have been washed out partly. The retaining wall were already repaired, desiltation activities has been carried out for siltation pond and garland drains by PMPL. The accumulated silts in these facilities during monsoon period are being de-silted at regular intervals. PP also submitted the details of 9 no.s of retaining wall, 10 no.s of garland drains, 18 no.s of settling ponds and 8 no.s of check dams.</p> <p>Further, PP submitted that it has been planned to make retaining wall, garland drain, settling pond etc at strategic point by which water can be channelized through the proposed protective measures and ultimately allowed to flow within the nalas flowing within the lease areas. The average rain fall has been considered as 1300 mm/year. Since the proposed waste dumps are located in areas which is a steep slope, maximum flow of water in rainy season will endanger the retaining walls. Therefore, it has been proposed to construct masonry wall with weep holes along the toe of the proposed dump. However, the following precautionary measures will be taken while designing the retaining walls and garland drains.</p> <p>a. Retaining Walls: Retaining boulder wall (1.5 m high and 1.0 m width) of substantial strength will be constructed all around the bottom periphery of waste dumps with locally available boulders mixed with sand and cement, to arrest any rolling down of the dump materials. Perforation will be left at around 10 m intervals to allow for passage of water.</p> <p>b. Garland drains: Garland drains of 1.5 m deep and 1.0 m wide will be constructed all along the bottom periphery of</p>
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		<p>waste dumps followed by the retaining wall to prevent any wash off or leaching of dump materials during heavy rains. Side walls and the base will be pitched with locally available boulders. Joints will be filled up with cement and sand mixture so that water cannot percolate.</p> <p>c. Settling Tank: The garland drain will be channelized to settling tank of 15m long, 10m width and 2.0m deep. Side walls and base will be packed with locally available boulders mixed with cement and sand.</p> <p>Measures taken for protection of surface water bodies: The Project Proponent submitted that the adverse impact on the existing natural drainage system is minimized because of provision of retaining wall, garland drains at strategic location to guide water through check dams & settling ponds down to outside nala. The water management scheme suggested for the project is periodical cleaning of settling ponds, garland drains & check dam during and after the monsoon season. The regular monitoring of surface run-off is/will be carried out by the authorized agency and record is/will be maintained regularly and submitted. The preventive measures have been proposed are as below:</p> <ol style="list-style-type: none">i. Provision of Retaining wall, garland drain, settling pond.ii. Garland drains/settling pond is being cleaned up periodically during and after rainy season.iii. Strengthen of small stone/ rock barriers across the drains at intervals to check the water current and to arrest the solid particles.iv. All the water of mines has to pass into the settling tanks and after settling the water will be stored in the rain water harvesting pit, the water shall be used for plantation & dust suppression.v. Monitoring and analysis of surface water as per MoEF&CC guideline by recognized laboratories.vi. A culvert has already been constructed on the nala passing near the entrance of the lease area and there is also a proposal for construction of another culvert near the dumping site of
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		<p>Nadagira block.</p> <p>vii. A 50m safety zone has been demarcated for the Nala protection which has been declared as no mining zone.</p> <p>viii. All the dumps proposed will be located beyond 300m from the nala the existing dump haul road will be relocated and a culvert will be constructed near the Nadigira block to connect the block to the road. PP also submitted the map showing the Nala, dumping area and road.</p> <p>Further, the Project Proponent submitted that surface water quality at Bhutuda Nala near Nandigira Block, Office building and northern part of mines will be monitored once in a month.</p>
4	<p>The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for peak total excavation for assessing air and noise pollution.</p>	<p>The Project Proponent reported that the maximum excavation per annum for Iron ore = 1662977 MT (As per approved Mining Plan) and Maximum excavation per annum for manganese ore = 1407519 MT (As per approved Mining Plan). Total excavation per annum for both Iron and Manganese ore = 3070496 MT (As per approved Mining Plan). Maximum working days taken per annum = 300 days (As per approved Mining Plan). Average excavation per day from the mines = 10234 MT. Assuming the rainy season (4 months) as no production days the productive days considered as = 245 days Peak excavation per day considering 245 working days with = 12532 MT.</p> <p>PP also submitted that the environment management plan is being prepared considering the peak total excavation. The normative excavation from the lease is 10234 MT per day with 300 days production capacity and the peak excavation considering the fleet of machinery and days of production as 245 days will be 12532 MT.</p> <p>Further, PP submitted that the mining activities such as drilling, blasting, excavation, dumping of waste, loading of material, transportation, and screening are the sources of air pollution and noise pollution and accordingly PP suggested the control measures for normative and peak production.</p>
5	<p>The Project Proponent needs to carry out the air quality modeling for</p>	<p>The Project Proponent submitted that the detailed air quality modeling for worst case scenario considering the point source, area source and line source all along</p>

	<p>the worst-case scenario for parameters such as PM10, PM2.5, SO2 and NOx. PP should indicate the peak capacity considered for predication of air quality modeling for point source, area source and line source all along the 12 km on either side of the road up to 100 m. The impact from the center line of the road on either side should be clearly brought out supported with the line source modeling and isopleths. The control case and worst-case scenario needs to be demonstrated with controlling factor and GLCs values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted. PP also needs to provide the comparative of the emission rates using USEPA and Indian School of Mines.</p>	<p>the 12 km on either side of the road up to 100 m has been carried out.</p> <p>PP reported that air quality modeling has been carried out using AERMOD Cloud remote version. The activity such as drilling and blasting are considered as point source, excavation of ore and waste considered as area source and transportation of ore and waste considered as line source. As per the study conducted on the surface iron ore mines indicated that the particulate matter is the major source of emission, whereas emission of SO2 and NOx from most of the mining activities are negligible. PP also submitted the comparison of emission rate from Mines (USEPA Vs Central Mining Research Institute) taking into account peak excavation.</p> <p>The Project Proponent submitted that the trucks required for transportation = 20 no of trucks per hour (4 trucks of 20 Ton capacity for manganese ore and 16 no.s of trucks of 35 Ton capacity for Iron Ore). Taking to and fro journey, there will be 20 trips per hour. It is planned that about 75% trips will transport material to Barsuan Railway siding and rest 25% will be transported to the nearby user agency through road joining Koira- Tensa road. PP reported that the maximum incremental concentration of CO found to be 5.60 µg/m³, NO_x: 6.23 µg/m³ and PM: 5.4 µg/m³. PP also submitted the isopleths of area source and along the transportation route.</p> <p>Further, PP submitted that existing air environment in the mining area is of desired quality i.e., all parameters are within limit with all environmental management plan implemented.</p>
6	<p>The Project Proponent shall submit the action plan for installing Continuous Ambient Air Quality Monitoring Stations (CAAQMS)</p>	<p>The Project Proponent submitted that the ambient air quality monitoring is regularly being carried out at four different locations within the core zone. PP also submitted that the Regional Officer and Environment Engineer of Regional Pollution Control Board, Rourkela have visited the site and finalized the locations in</p>

	<p>with proper justification of site selection.</p>	<p>respect of installation of Continuous Ambient Air Quality Monitoring Station. The AAQ sampling stations selected near the proposed active mining areas and entrance to the mining lease. In the buffer zone nearest downwind villages and nearest sensitive locations has been considered for monitoring. PP also submitted the map showing the location of CAAQMS and communication with regional officer OSPCB.</p>																																																												
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7	<p>The Project Proponent needs to submit the mining strategy over a period of life of mine for Iron and Manganese with 5-year stage plan. PP should submit the sequential plan for accessing Iron and Manganese Ore and progressive mine closure plan. PP needs to submit the production schedule for Iron and Manganese Ore in a single table for entire life of mine. The EAC advised the Project</p>	<p>The Project Proponent submitted the production schedule for Iron and manganese for the life of mines. The life of mines for manganese ore will be 6.8 years and for Iron ore mines is 29 years. PP also submitted the map showing the detail mining strategy over a period of life of mine for Iron and Manganese with 5-year stage plan. Further, PP submitted the mine closure plan.</p>																																																												

	Proponent to submit the breakup of total excavation of all parameters in same unit.	
8	The Project Proponent needs to clarify why the two different Forest Clearance proposals has been submitted vide proposal no: FP/OR/MIN/51823/2020 dated 23.10.2020 over an area of 370.571 ha at the time of TOR and at the time of EC for diversion of forest land of 382.437 ha vide proposal no: FP/OR/MIN/122038/2021 dated 19.04.2021. PP also needs to clarify what is the actual forest land and why the PP has not taken amendment in ToR for change in land use pattern and also the reason for increase in forest land with the supporting documents. Further, PP needs to submit the status of Transfer of FC as per letter dated 27.08.2021.	The Project Proponent submitted that Forest proposal vide proposal No. FP/OR/MIN/51823/2020, dated 23.10.2020 over an area of 370.751 ha was submitted as per the land schedule of the State Government allotted to us previous lessee. After scrutiny of the proposal by Divisional Forest Officer, Bonai and issued Letter to Tahasildar, Lahunipada, Range Officer Barsuan and Project Proponent Letter vide Memo No.9890/6F-Dt:03.12.2020 w.r.t. verification of land schedule in field as well as revenue record. Accordingly, there was a joint verification conducted by Revenue Department and Forest Department, Odisha on 02.01.2021 and found to be the Forest area of 382.437 Ha. Subsequently, Project Proponent submitted the fresh proposal for diversion of 382.437 ha of forest land vide Proposal No. FP/OR/MIN/122038/2021 dated 19.04.2021.
9	The Project Proponent needs to explore the possibility of using a dedicated road bypassing the village	The Project Proponent submitted that the existing public road passes within the lease area is 10m wide road which is blacktopped. This road has been constructed and maintained by DMF Sundargarh. The transportation of manganese ore excavated from

	road for the purpose of transportation of mineral.PP shall also submit the measures taken for protection of existing public road passing through the mine lease area.	Nandigira quarry will be carried out through this road. For Mahulasukha quarry transportation will be carried out by the dedicated haul road constructed from the quarry to zero point and connected to OMC – Barsuan road. The Iron ore will also be transported to the OMC Barsuan Road through the dedicated haul road which will be constructed during the proposed mining operation. The safety zone of 10m will be maintained from the road and plantation will be carried out on the road side in the safety zone. PP also submitted that the road passing though the lease area will be maintained. The plantation of about 10m width has been done as part of management. PP also submitted the map showing the transportation route from the quarry to Barsuan Railway siding.															
10	The Project Proponent needs to submit the map demarcating the safety zone, location of dumps, mineralized and non-mineralized zone and other surface features in the vicinity of the mine lease area. PP also needs to submit the details of the already broken up area and the area to be broken up in the forest land.	The Project Proponent submitted the map demarcating the safety zone, location of dumps, mineralized and non-mineralized zone and other surface features in the vicinity of the mine lease area.															
11	The Project Proponent needs to submit the action plan for carrying out peripheral plantation, safety zone plantation, avenue plantation, gap plantation and plantation of fruit bearing trees. PP needs to submit the detailed greenbelt/plantation	<p>The Project Proponent submitted that it is proposed to plant 1,94,750 no.s of saplings over an area of 77.826 ha during 2022-23 to 2025-26.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Location</th> <th>Area (ha)</th> <th>No. of saplings proposed</th> </tr> </thead> <tbody> <tr> <td>2022-23</td> <td>Safety zone (Nala side)</td> <td>22.5</td> <td>56,250</td> </tr> <tr> <td rowspan="2">2023-24</td> <td>Safety zone (Nala side)</td> <td>20.0</td> <td>50,000</td> </tr> <tr> <td>Safety Zone (Along Road)</td> <td>1.99</td> <td>5,000</td> </tr> </tbody> </table>	Year	Location	Area (ha)	No. of saplings proposed	2022-23	Safety zone (Nala side)	22.5	56,250	2023-24	Safety zone (Nala side)	20.0	50,000	Safety Zone (Along Road)	1.99	5,000
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	plan in tabular format (year wise for entire life of mine) with proper time bound capital and recurring cost.	2024-25	Safety zone (Nala side)	20.0	50,000																												
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		Total		77.826 ha	1,94,750																												
		<p>Further, PP submitted that the Broad leaf trees growing above 10 m in height will be planted along the roads and ML boundary and local/indigenous fast growing trees shrubs will be planted.Placement of tree guards will be provided to save the plants.There will be three rows of plants along the lease boundary. The row of plants facing mine will be of smaller species and those facing outside will be of taller species.Regular monitoring on survival rate and remedial action should be done in an organized and planned manner.PP also submitted that an amount of Rs.58.0 Lakhs has been allocated for development of greenbelt and annual expenses for green belt maintenance will be Rs. 10.0 Lakhs.</p>																															
12	<p>The Project Proponent needs to revise the EMP budget and shall submit the action plan for implementing EMP. The Project Proponent needs to revisit the action plan for public hearing with a timeline of 3 years. PP also needs to submit the action plan for partial compliances/being compiled as identified by Ministry's Integrated Regional Office along with the timeline and budget.</p>	<p>The Project Proponent submitted that the budget of the capital cost of EMP has been revised from Rs 138.5 Cr to Rs 396.0 Cr.</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Proposed EMP</th> <th>Capital Cost (INR) Lakhs</th> <th>Recurring Cost Lakhs (INR)/Annum</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Air Environment</td> <td></td> <td></td> </tr> <tr> <td>a.</td> <td>Installation of Fixed water sprinklers along the haul road (20m gap for 3 Km) 150 nos sprinklers</td> <td>30.00</td> <td>04.00</td> </tr> <tr> <td>b.</td> <td>Fixed Water sprinkler near the dump and quarry area (100 nos)</td> <td>15.00</td> <td>05.00</td> </tr> <tr> <td>c.</td> <td>Water pipeline with pumping system</td> <td>05.00</td> <td>01.00</td> </tr> <tr> <td>d.</td> <td>Mobile water tanker for water sprinkling on the transportation road</td> <td>30.00</td> <td>06.00</td> </tr> <tr> <td>e.</td> <td>Installation of CAAQMS (3 nos) within core zone</td> <td>130.00</td> <td>3.0</td> </tr> </tbody> </table>				Sl. No	Proposed EMP	Capital Cost (INR) Lakhs	Recurring Cost Lakhs (INR)/Annum	1.	Air Environment			a.	Installation of Fixed water sprinklers along the haul road (20m gap for 3 Km) 150 nos sprinklers	30.00	04.00	b.	Fixed Water sprinkler near the dump and quarry area (100 nos)	15.00	05.00	c.	Water pipeline with pumping system	05.00	01.00	d.	Mobile water tanker for water sprinkling on the transportation road	30.00	06.00	e.	Installation of CAAQMS (3 nos) within core zone	130.00	3.0
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	f.	Ambient air quality Monitoring at 4 stations within buffer zone	--	3.0
	2.	Water Environment		
	a.	Construction of Garland drain	10.00	1.00
	b.	Construction of Retaining wall	12.00	1.00
	c.	Construction of Settling Pond	08.00	1.00
	d.	Rain water harvesting Pond	06.00	00.50
	e.	STP	12.00	03.00
	f.	Construction of two no of culverts on Bhutuda Nala	30.00	3.0
	e.	Surface water quality Monitoring (4 locations)	--	2.8
	f.	Ground water quality Monitoring (4 locations)	--	4.8
	g.	Installation of Piezometer	5.0	1.0
	3.	Noise Environment		
	a.	Enclosure for DG set	1.50	0.60
	b.	Noise Monitoring in Core and Buffer zone	1.50	1.5
	4.	Environmental monitoring programme	10.00	5.00
	5.	Green Belt development (Plantation)	58.0	10.0
	6.	Occupational Health		
	a.	Setup of dispensary within the lease area	10.0	2.0
	b.	Occupational health checkup (IME & PME)	4.00	00.50
	c.	Ambulance facility for the workers and local people	15.0	3.0
	d.	PPE kits for Workers (150 sets)	3.0	1.00

		Total	396	63.7
		8. Cost for Wildlife Management Plan	515.00	170.00
13	The Project Proponent shall make a Memorandum of Understanding (MoU) with the concerned private railway siding for the purpose of transportation of mineral.	The Project Proponent submitted that the transportation of ore will be carried out through rake from Barsuan railway siding which is located at 12 km from the project site. The Barsuan is a Public/ Private railway siding and the permission has already been obtained from the department through online portal for transport of ore through train.		
14	The Project Proponent needs to submit the action plan for employing qualified persons in Environment Management Cell along with the procedure for eligible criteria, announcement of vacancy, shortlisting criteria, interview procedures, timeline of appointment and scope of work assigned.	The Project Proponent submitted that the Environment Management Cell will operate under the direct supervision of Mines Managers and headed by Manager (Environment and Forest). The Manager (Environment and Forest) will operate with supporting Environment workers. PP submitted the qualification, experience and scope of work for Manager (Environment and Forest) and Environment support staff. Further, PP submitted that the vacancy will be intimated in the local newspaper and company website. Based on the application received the candidates shortlisted based on their qualification and experience. Walk in interview is being carried out at the PMPL office at Joda and suitable candidates selected for appointment based on their qualification and experience. Local candidates are being given more priority for appointment. Selected candidates asked to join within a period of 1 month after receiving the offer letter.		
15	The Project Proponent needs to submit the map authenticated by PCCF showing the distance of nearest of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/ Elephant Reserve/any other Reserve, Habitat for	The Project Proponent submitted the map showing the location of the project site and the distance of the nearest of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/ Elephant Reserve/any other Reserve, Habitat for migratory birds, Elephant Corridor for animals authenticated by DFO. PP also submitted the proof of submission of site specific wildlife conservation plan submitted to the Divisional Forest Officer, Bonai Forest Division on 19.07.2022.		

	migratory birds, Elephant Corridor for animals within 10 km from the periphery of the mine lease area. PP also needs to submit the proof of submission of application of Wildlife Conservation Plan to the Chief Wildlife Warden.	
16	The Project Proponent needs to submit all the analysis/testing reports of water, air, soil, noise, etc. using the MoEF&CC/NABL accredited laboratories as per S.No 14 (c) of TOR letter dated 20.01.2021.	The Project Proponent submitted that the Baseline study was carried out during December 2020 to February 2021 by M/s Kalyani Laboratories Private Limited, Bhubaneswar. PP also submitted the test reports of ambient air quality, noise level, water and soil quality. Further, PP submitted that the NABL: Certificate No.TC -7043 is valid till 2023 and MoEF Recognition: Gadget Notification No. S.O 2003 (E) dated 6th August 201 File No: Q-15018/46/2018-CPW dated 24.10.2019 is valid till 23.10.2024.

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

Date of application	Proposal No/ File No	Consideration	Details	Date of accord
16.11.2005	J-11015/412/ 2005-IA.II(M)	-	Environmental Clearance for Mahulsukha Manganese Ore mining project of M/s Aryan Mining & Trading Corporation Private Ltd for an annual production capacity 40,000 tonnes (0.04 million tonnes) of manganese ore by opencast semi-mechanised method involving mining lease area of 399.838 ha	05.04.2007

v. The details of the Terms of Reference (ToR) are furnished as below:

Date of application	Proposal No/ File No	Consideration	Details	Date of accord
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23.10.2020	IA/OR/MIN/ 180360/2020 J-11015/75/ 2020-IA.II(M)	22 nd - 24 th December, 2020	Terms of Reference for proposed production of Iron Ore: Total Excavation: 16,62,977 TPA, ROM: 10,00,000 TPA and Manganese Ore: Total Excavation: 14,07,519 TPA; ROM: 1,50,000 TPA from Mahulsukha Iron and Manganese Ore block over an area of 390.317ha (as per DGPS)/399.838ha (as per ROR) in Villages Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tehsil of Sundargarh District, Odisha along with the recommendation made by NEERI in its carrying capacity study for Odisha.	20.01.2021
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vi. Details of Mine lease:

- a. The Project Proponent submitted that the originally Mahulsukha Mining Lease was executed for mining of Manganese Ore since 03.02.1945 for a period of twenty (20) years in favor of M/s Aryan Mining & Trading Corporation Ltd.
- b. The 2nd renewal of mining lease over an area of 399.838 ha granted on 03.02.1985 for further period of twenty (20) years was expired on 03.02.2005.
- c. Then, the Govt. of Odisha, Department of Steel & Mines vide Letter No.IIIB) SM13/2012-3326/S&M, Bhubaneswar, dt.18.04.2015 have extended the validity period of mining lease area under Section 8(A) (6) of the M&M (D&R) Act, 1957 as amended by the MMDR Amendment Act, 2015 from the date of expiry of the last valid period of lease i.e. 03.02.2005 to 31.03.2020 in favor of M/s Aryan Mining & Trading Corporation Ltd.
- d. As per the section 8A (4) of MMDR (Amendment) Act 2015, on the expiry of the lease period, the lease shall be put up for auction. Accordingly, the Govt of Odisha put the Mining Lease for auction. The e-auction process was conducted in accordance with the tender document and the mineral auction rule, 2015 for said block.
- e. The Govt of Odisha vide Lr No.3013/S&M, Bhubaneswar dated 18.03.2020 issued Letter of Intent for grant of mining lease for Mahulsukha Iron and

Manganese Ore block over an area of 390.317ha (as per DGPS)/399.838ha (as per ROR) to M/s Patnaik Minerals Pvt. Limited for a period of 50 years.

- f. Thereafter, the Govt of Odisha vide Lr No.4246/IV(B)SM-23/2020/SM dated 30.05.2020 issued vesting order stating that the without prejudice to the generality of the provisions of section 8B(2) of the MMDR Act, 1957, the details of the valid rights, approvals, clearances, licenses, and the like held by the previous lessee are vested in favour of M/s Patnaik Minerals Pvt. Ltd. and the vesting order is valid for a period of two years from the date of execution of lease deed or till the date of getting fresh approvals, clearances, licenses, permits, and the like, whichever is earlier.
- g. On payment of second installment of the upfront payment, submission of the performance security and complying with all other requirements as prescribed under Rule 10, Sub-Rule (3) of the said Rules, Govt of Odisha vide Order No. 5252/IV(B)SM-23/2020/SM dated 24.06.2020 declared M/s Patnaik Minerals Pvt. Ltd as the successful bidder for grant of mining lease.
- h. Subsequently, the Govt of Odisha vide Order No. 5518/IV(B)SM-23/2020/SM dated 29.06.2020 granted mining lease for Iron & Manganese ore in favour of M/s Patnaik Minerals Pvt. Ltd, the successful bidder in respect of Mahulsukha Iron and Manganese Ore block over an area of 390.317 ha (as per DGPS)/399.838ha (as per ROR) for a period of 50 years.
- i. Then, the Mining lease deed was executed on 29.06.2020 vide No. IN-OD01084308552938S for a period of 50 years.

vii. Land Use/Land Cover of the mine lease area:

Forest land	382.437 ha
Private land	1.081 ha
Government land	6.799 ha
Total Mining lease area (MLA)	390.317 ha
Private land for crusher, workshop & other infrastructure outside the MLA	NIL

viii. Details of Mine Plan:

- a. The Project Proponent submitted the Approval of Mining plan along with the Progressive Mine Closure Plan approved by Indian Bureau of Mines vide Lr No. MP/A/17-ORI/BHU/2020-21 dated 01.10.2020 for Mahulsukha Iron and Manganese mine over an area of 390.317 ha (as per DGPS)/399.838 ha (as per RoR) for the period 2020-21 to 2024-25.
- b. The fully mechanized opencast method of mining will continue on three shift basis with the deployment of drills, associated compressors, dumpers/tippers, excavators and other auxiliary equipment.
- c. With the present rate of production of life of mine for Manganese ore will be 7 years and for Iron ore it will be 29 years.
- d. The blasted material will be excavated by shovels of 2.1 cu.m – 3.2 cu.m capacity and loaded onto 20 - 35T dumpers for transportation of the ROM,

mineral reject and waste. The ROM ore from different mining faces will be transported through dumpers of 20 -35T by road in a pre-determined proportion (for blending different qualities of ore), and delivered to the processing plant. With the enhancement in production the production of Iron ore will be 1.0 MTPA and production of manganese ore will be 0.15 MTPA. So the total production from the mines will be 1.15 MTPA. Out of the total production 80% will be transported by railway siding at Barsuan and 20% will be transported by trucks.

- e. Iron ore (ROM) excavated from the lease area will be sent to outside the lease area to make it different sizes. However, low grade material (below 55% Fe) within the lease area will be processed only by screening within the lease area to make it saleable.
- f. The Static/Mobile Screening unit, capacity 200 MT per hour has been proposed to be installed at the mines to screen the ROM of both Iron and Manganese ores from the quarry.
- g. The Project Proponent reported that during plan period about 8,22,838 cu.m of waste from iron ore zone and 10,58,512 cu.m of waste from manganese ore zone will be generated. It has been planned that about 10% of generation will be utilized for road maintenance and balance waste will be disposed of at earmarked site.
- h. The Project Proponent also reported that the ground level of the mine lease area is 460 mRL and the mining will carry out upto maximum of 474 mRL i.e., 14m above the ground level. The depth of the ground water will be 3m to 8m below the ground level. So, there will be no chance of intersection of the ground water table due to proposed mining activity.

ix. Water requirement:

Total water requirement	84.0 KLD	Fresh water	20 KLD
		Treated water	64 KLD
Source	Bore Well		
Permission	The Project Proponent submitted the No Objection Certificate vide NOC No. CGWA/NOC/MIN/ORIG/2022/15067 which is valid from 09.04.2022 to 08.04.2024 for abstraction of fresh water of 84.0 m ³ /day in favour of M/s Patnaik Minerals Pvt. Ltd.		

x. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Direction
Nearest Village	Bhutuda	0.5 km
Nearest Town	Barsuan	10.0 km
Nearest Highway	NH-215	9.0 km
Nearest Railway Station	Barsuan	12.0 km
Nearest Water Body	Bhutuda Nalla	Inside mine lease area

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

Forest Land / Protected Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter/ Remarks
Forest Land	Yes	<p>PP submitted the Stage-II FC granted by MoEF vide F No.8-93/2004-FC dated 18.08.2008 for diversion of 227.0 ha of forest land for 3rd renewal of Mahulsukha Manganese Ore mines in favour of M/s AMTC Ltd. PP also submitted that the NPV amounting Rs. 27,60,32,250/9 has been deposited on 16.06.2020 for the forest area as per demand notice vide File no: 11-97/2018- FC dated 31.03.2020 of MoEF& CC, GOI & Memo no-6791/F&E dated 07.04.2020 of special secretary to Govt, of Odisha, F&E Dept., Bhubaneswar.</p> <p>PP submitted the application for Stage-I Forest Clearance vide online proposal no: FP/OR/MIN/122038/2021 dated 19.04.2021 for diversion of forest land of 382.437 ha in the name of M/s Patnaik Minerals Pvt. Ltd.</p>
National Park	No	PP submitted the letter from the Office of the Divisional Forest Officer, Bonai Division vide Lr Memo No. 1002/6F-(Mg) dt 01.02.2022 with the authenticated map showing the distance of the project area from National Park, Wildlife Sanctuaries, Tiger/Elephant Reserves and their corridors (existing as well as proposed).
Wildlife Sanctuary	No	
Eco-Sensitive Zone (ESZ)	No	
Schedule-I species	Yes	PP submitted the list of flora and fauna in project area authenticated from the Office of the Divisional Forest Officer, Bonai Division vide Lr Memo No. 1002/6F-(Mg) dt 01.02.2022 wherein it was reported that six Schedule-I species are found in the project area such as Monitor lizard, Sloth Bear, Indian Elephant, Leopard, Indian Python and Common Pea Fowl.
Wildlife Conservation Plan	No	PP submitted that the approval of Wildlife conservation plan for the project is under process.

xii. Green belt/plantation details:

Proposed area for green belt/plantation	74.165 Ha
Budget for green plant & plantation till the end of life of mine.	Rs. 1.0 Lakh/annum
Budget for nursery	Saplings will be procured from forest department nursery
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	43.90 Ha
50 m safety zone of nallah, roads,	28.50 Ha

electric lines	
500 m safety zones of nearest habitation villages	--
Additional information (if any)	PP submitted that as on 31.03.2022, 1,96,746 no. of saplings over an area of 70.165 Ha in the safety zone has been developed by the previous lessee.

xiii. Baseline detail:

The primary baseline data for specific micro-meteorology data, ambient air quality, waste quality, noise level, soil and flora & fauna has been collected during Winter Season i.e., December, 2020 to February, 2021. The Monitoring results of ambient air, surface water, soil, ambient noise and ground water have been reported and no major divergence was observed with respect to concentration values of various parameters of collected samples.

Period	December, 2020 to February, 2021				
AAQ parameters at 9 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	16.7	32.5	32.4	60
	PM10	33.6	69.3	68.9	100
	SO2	4.3	11.5	10.9	80
	NOx	11.7	19.5	18.3	80
AAQ modeling (Incremental GLC) – AERMOD Cloud remote version	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
	PM10	68.9	2.5	71.4	100
	PM2.5	32.5	-	32.5	60
	SO2	11.5	-	11.5	80
Noise level at 9 locations	Day Time: 30.8 to 55.2 Leq dB (A)				
	Night Time: 24.6 to 43.6 Leq dB (A)				
Ground water quality at 7 locations	PP reported that pH of collected water samples varied from 6.9 – 7.5. Total hardness was found to be in the range 44 - 180 mg/l. Total Dissolved Solids in the water samples ranged from 20-220 mg/l. Chloride ranged between 2-10 mg/l. PP also reported that the ground water of the area is not contaminated by any heavy metal or microbiological contaminants and the water is found to be suitable for human consumption.				
Surface water quality at 9 location	PP reported that the pH ranged between 7.0-7.45, DO is found to be 6.4-7.5mg/l and BOD is less than 2 mg/l and COD found to be less than 5mg/l. All the parameters analyzed are under the prescribed limit as per IS 2296:1982 as per class C and though the water does not contain any pollutants.				
Soil quality at 9 locations	PP reported that pH ranged between (6.1-6.9) neutral to acidic. There is no significant variation in organic carbon content (0.74 to 1.64 %) throughout the project area. These soils are suitable for cultivation of paddy and other crops. In few places soil texture reflects silt loam soil with moderate amount of fine sand and clay;				

	over half of the particles are silt. Soil conductivity is less than 1.0 which is normal for cultivated fields.
Traffic Study	PP reported that the traffic density study was conducted in one traffic points on 12.02.2021 on Cross section of mines road and OMC mines – Barsuan Road. The road is blacktopped road with major traffic contributed by OMC mines. There will be incremental truck load of 20 trucks per hour due to transportation of ore from the lease area to the railway siding at Barsuan and other user agencies. Level of service (LoS) for the road found to be B. The existing infrastructure is sufficient to carry the additional load.

xiv. Public Hearing (PH) Details:

Advertisement for PH with date	The “New Sunday Express” and “Dharitri” on 05.09.2021
Date of PH	08.10.2021
Venue	Bhutuda Gram Panchayat Office (1.0 km from mine lease area)
Chaired by	i. Add. District Magistrate, Sundargarh ii. Regional Officer, State Pollution Control Board
Main issues raised during PH	Loss of agriculture, Dust pollution, Water pollution, plantation of fruit bearing trees, restoration of natural stream, check dam, employment, construction of village road, deployment of teachers in village School, Medical facility, Electrification, Drinking water supply, transportation, sports and cultural activity.
Budget proposed for addressing issues raised during PH	Rs 242.50 Lakhs

xv. Details of CTE/CTO, Previous EC Compliance, Past Production details:

Consent to Operate (CTO)	PP submitted the Consent to Operate (CTO) issued by the State Pollution Control Board, Odisha vide Consent Order No: 5193/IND-I-CON-2254 dated 31.03.2022 for production of 40,000 TPA of Manganese Ore for the period from 01.04.2022 to 31.03.2023.
Certified EC Compliance report	PP submitted the Certified EC compliance report issued by the Integrated Regional Office (IRO), Bhubaneswar vide File No: 101-833/21/EPE/1435 dated 11.11.2021. Site visit was conducted by IRO on 23.10.2021 wherein the IRO observed that in the garland drains, a lot of silt has got accumulated in this rainy season, which need to be desilted soon, to harvest maximum runoff water, which should be utilized in ground water recharge and also water sprinkling on roads, to further minimize spread of fugitive emissions

	and control air pollution. IRO also observed that the proposed 4 no.s of AAQ stations may be established at the earliest. IRO vide File No. 101-833/21/EPE/1517 dated 26.11.2021 examined the action taken report submitted by the PP vide letter dated 22.11.2021 and found that the above said conditions may be treated as complied and partially complied.
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xvi. Rehabilitation & Resettlement (R&R):

R & R details	No R &R is involved in the project area.
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xvii. Court case details:

Court Case	<p>PP submitted that there is no any Court Cases pending against the project and/or land in which the project is proposed to be set up</p> <p>PP also submitted a declaration that there is no proceedings/cases pending before any court/Tribunal/Authorities with respect to the project Mahulsukha Iron & Manganese Ore Mines of M/s Patnaik Minerals (P) Ltd.</p>
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xviii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	PP submitted the Affidavit in a non-judicial stamp paper of Rs 10.0 bearing no S0AA 711583 dated 23.11.2020 that the company will comply with all the statutory requirements and judgement of Hon'ble Supreme Court dated 02.08.2017 in Writ Petition (Civil) no. of 114 of 2014 in the matter of Common cause vs Union of India and Ors.
Project Proponent submitted an Undertaking	PP submitted an undertaking stating that the <i>"in line with MoEF OM no. J-11013/41/2006-IA.II(I) dated 5th October 2011, we hereby give our undertaking for owning the content and information provided in the EIA/EMP report submitted for Environment Clearance for Mahulsukha Iron and Manganese Ore Block over an area of 390.317 Ha in village Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tahasil of Sundergarh District, Odisha"</i> .
Consultant submitted an Undertaking	The Consultant submitted an undertaking that <i>'in line with MoEF OM no. J-11013/41/2006-IA.II(I) dated 4th August, 2009, we hereby confirm that Terms of Reference issued by EAC, New Delhi vide MoEF&CC, New Delhi vide Lr No. J-11015/75/2020.IA.II(M) dated 20.01.2021 for preparation of EIA/EMP report of Mahulsukha Iron and Manganese Ore Block over an area of 390.317 Ha in village Randa, Rantha and Bhutuda under Bonai Sub-Division and Lahunipada Tahasil of Sundergarh District, Odisha has been complied with and data provided in the EIA/EMP</i>

	<i>report is factually correct”.</i>
Plagiarism Certificate certified on 05.05.2022	The Head of the Accredited Consultant Organization/ Authorized person certified that FEIA Report has been evaluated using online/inhouse software viz., https://smallseotools.com/plagiarism-checker/ . The report produced has been analyzed by the system and based on it, I certify that the EIA report produced in accordance with good scientific practice.

xix. Details of the EMP:

Sl. No	Proposed EMP	Capital Cost (INR) Lakhs	Recurring Cost Lakhs (INR)/Annum
1.	Air Environment		
a.	Installation of Fixed water sprinklers along the haul road (20m gap for 3 Km) 150 nos sprinklers	30.00	04.00
b.	Fixed Water sprinkler near the dump and quarry area (100 nos)	15.00	05.00
c.	Water pipeline with pumping system	05.00	01.00
d.	Mobile water tanker for water sprinkling on the transportation road	30.00	06.00
e.	Installation of CAAQMS (3 nos) within core zone	130.00	3.0
f.	Ambient air quality Monitoring at 4 stations within buffer zone	--	3.0
2.	Water Environment		
a.	Construction of Garland drain	10.00	1.00
b.	Construction of Retaining wall	12.00	1.00
c.	Construction of Settling Pond	08.00	1.00
d.	Rain water harvesting Pond	06.00	00.50
e.	STP	12.00	03.00
f.	Construction of two no of culverts on Bhutuda Nala	30.00	3.0
e.	Surface water quality Monitoring (4 locations)	--	2.8
f.	Ground water quality Monitoring (4 locations)	--	4.8
g.	Installation of Piezometer	5.0	1.0
3.	Noise Environment		
a.	Enclosure for DG set	1.50	0.60
b.	Noise Monitoring in Core and Buffer zone	1.50	1.5
4.	Environmental monitoring programme	10.00	5.00

5.	Green Belt development (Plantation)	58.0	10.0
6.	Occupational Health		
a.	Setup of dispensary within the lease area	10.0	2.0
b.	Occupational health checkup (IME & PME)	4.00	00.50
c.	Ambulance facility for the workers and local people	15.0	3.0
d.	PPE kits for Workers (150 sets)	3.0	1.00
Total		396	63.7
8.	Cost for Wildlife Management Plan	515.00	170.00

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Capital Cost for Environment Protection	1.38
Budget for addressing the Public Hearing issues	2.42
Total Cost for EMP	3.8
Recurring Cost for EMP	0.3
Project Cost	20.0
Employment	304 persons

3. Observation and Recommendation of the Committee:

The EAC noted that the instant proposal is for reconsideration of Environmental Clearance (EC) for mining of Iron and Manganese Ore in Mahulsukha Iron and Manganese Ore Block in the mine lease area of 390.317 ha (as per DGPS)/399.838 ha (as per ROR). The EAC asked the Project Proponent to begin with KML to indicate the surface features in the vicinity of the mine lease area and the study area of 10 km radius. The Project Proponent informed that there are two nallahs such as Rajabasa nallah and Bhutuda nallah flow within the mine lease area and both these nallahs meet at Kurarhi nalah at a distance of about 500m in the northern part outside the mine lease area. The nala was crossing at two points of transportation road. So, there is the proposal for construction of culvert over the nala for transporting material from the quarry site. Out of the two culverts one has already been constructed on the nala passing near the entrance of the lease area and other one will be constructed during this year near the dumping site of Nadagira block. The EAC also asked about the road passing through the mine lease area and the presence of habitations within the mine lease area. The Project Proponent informed the EAC that the public road is passing through the mine lease area which has been constructed and maintained from the fund of DMF Sundargarh and it is proposed to transport both Iron and Manganese Ore through this road. PP also informed that there are no habitations within the mine lease area and there are few establishments which have been constructed by the Project Proponent to sell the vegetables for the local people.

Then, the Project Proponent began the technical presentation. The EAC deliberated on the additional details submitted by the Project Proponent/Consultant. The Project Proponent informed the EAC that the total mine lease area is 390.317 ha (as per DGPS), out of which total forest land is 370.751 ha as per Land Schedule issued by Tahasildar Lahunipada, vide Letter No. 2881, Dt: 28.09.2020. Total Forest Land already diverted by previous lessee is 227.00 ha {78.119 ha (already broken up) + 148.881 ha (fresh forest land)}. Initially, Forest Clearance proposal was submitted vide proposal No. FP/OR/MIN/51823/2020 dated 23.10.2020 over an area of 370.751 ha was submitted as per the land schedule of the State Government allotted to us previous lessee. After scrutiny of the proposal by Divisional Forest Officer, Bonai and issued Letter to Tahasildar, Lahunipada, Range Officer Barsuan and Project Proponent Letter vide Memo No.9890/6F- Dt:03.12.2020 w.r.t. verification of land schedule in field as well as revenue record. Accordingly, there was a joint verification conducted by Revenue Department and Forest Department, Odisha on 02.01.2021 and found to be the Forest area of 382.437 Ha. Subsequently, Project Proponent submitted the fresh proposal for diversion of 382.437 ha of forest land vide Proposal No. FP/OR/MIN/122038/2021 dated 19.04.2021. The previous lessee deposited NPV for an amount of Rs. 27,56,20,290/- for entire Forest area over 377.563 ha @ Rs. 7.30 lakhs/ha. PP also submitted that NPV amounting to Rs. 27,60,32,250/- over an area of 368.043 ha has been deposited as per Demand Notice of State Forest Department vide Demand Notice No. 3987/6F, Dtd: 08.04.2020. PP submitted that for transfer of forest clearance over an area of 227.0 ha, transfer fees of Rs. 1,00,000/- has been deposited vide Challan No. N327211722825977, dated 23.11.2021. The EAC asked the Project Proponent about the status of the transfer of Forest Clearance. The Project Proponent informed the EAC that the transfer of Forest Clearance is still under process with the Forest Dept.

The EAC asked the Project Proponent to show the non-diverted forest area in the KML file. The Project Proponent informed the EAC that the patch of the non-diverted forest area is not readily available to show before the EAC. The EAC was of the view that it appears to be mining activities is being undertaken in the non-diverted forest area. The EAC asked about the status of the Wildlife Conservation Plan. The Project Proponent informed the EAC that the Wildlife Conservation Plan has been submitted to the Divisional Forest Officer, Bonai Forest Division on 19.07.2022 and the approval is under process. The EAC also asked about the status of the Stage-I Forest Clearance applied in the name of new lessee. The Project Proponent informed the EAC that the proposal for Stage-I Forest Clearance will be considered by the Forest Dept. only after the transfer of Forest Clearance. The EAC observed that transfer of forest clearance from old lessee to new lessee over an area of already diverted area of 227.00 ha and Stage-I Forest Clearance over an area of 382.437 ha in the name of new lessee is still under process.

The EAC asked the Project Proponent about the compliance to common cause judgment. The Project Proponent informed the EAC that as the lease has been granted in favour of M/s Patnaik Minerals Private Limited on 29.06.2020, the common cause judgment is not applicable for this mine. The EAC asked the Project Proponent that whether there is any authentication from the State Govt. in this regard or to show the authenticated past production details from the inception of the mine. The EAC observed that there is no authentication from the Dept. of Mining and Geology in this regard. The EAC asked the proponent whether there is any court case pending against the project. The Project Proponent informed the EAC that there is no court case pending against the project.

The EAC opined that the reply of the additional details submitted by the Project Proponent/Consultant is not satisfactory. The EAC felt that the issues related to diversion and non diversion of forest land, wildlife and measures for protection of Schedule-I species, water bodies and transportation has not been properly addressed and it is necessary to ascertain the ground reality on present mining status in forest and non-forest land, water bodies and transportation. The EAC was of the view that a site visit needs to be conducted by a sub committee comprising of EAC Members and officers from MoEF&CC. The EAC advised the Ministry to constitute a sub-committee for site visit. Therefore, the EAC **deferred** the proposal and was of the view that the proposal may be considered only after the submission of the site visit report by sub-committee along with the certified past production details from the Department of Mining and Geology from the inception of the mine lease area.

2.3 Mauli Iron Ore Block of M/s. Sociedade de Fomento Industrial Private Limited for production capacity of Iron Ore: 0.3 MTPA, Waste: 0.83 MTPA (Total Excavation: 1.13 MTPA) along with crusher 1 x 100 TPH in the mine lease area of 24.26 ha, located at Village Redi (Kanyale), Vengurla Taluka, Sindhudurg District, Maharashtra – [F.No: IA-J-11015/38/2022-IA-II(NCM), Proposal No: IA/MH/MIN/406965/2022, Consultant: Mineral Engineering Services] – Terms of Reference (Auction mine)

The proposal is for mining of Iron Ore in Mauli Iron Ore Block of M/s. Sociedade de Fomento Industrial Private Limited for production capacity of Iron Ore: 0.3 MTPA, Waste: 0.83 MTPA (Total Excavation: 1.13 MTPA) along with crusher 1 x 100 TPH in the mine lease area of 24.26 ha, located at Village Redi (Kanyale), Vengurla Taluka, Sindhudurg District, Maharashtra.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 15°44'4.98"N to 15° 44'28.74"N and Longitude 73°40' 06.30"E to 73°40'34.32"E. The mine lease area falls under the Survey of India Toposheet No: 48 E/10 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mine lease area is located at a distance of 0.7 km from the Interstate boundary of Maharashtra-Goa and attracts the general conditions and appraised at the Central level.

iii. Details of Mine lease:

S. no	Letter of Intent (LoI)	Date of the grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area
1	Letter of Intent for grant of mining lease vide Lr No: MMN-0422/ C. R.78/IND-9(A) in pursuant to Rule 10 (2) of the Mineral (Auction) Rules, 2015	20.05.2022	Iron Ore	50 years	Govt., of Maharashtra	24.26 Ha
Letter of Intent is valid for a period of three years from the date of its issuance						

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

Private land	24.26 Ha
Government land	Not Applicable
Total Mining lease area (MLA)	24.26 Ha
Private land for crusher, workshop & other infrastructure outside the MLA	Not Applicable

v. Mining plan details:

Mining Plan with Progressive Mine Closure Plan approved by Indian Bureau of Mines	Letter No.	MP/MECH-01(MAH)/GOA/2022-23
	Date	24-08-2022.
	Mine lease area	24.26 Ha
	Mineral	Iron Ore
Mining Parameters	Quantitative Description	

Method of Mining	Opencast mechanised mining
The total Mineral Reserves and Resources as on 08.07.2022	0.981 Million Tonnes
Life of mine	6 years as per the present limited exploration data. As per the proposed exploration it is likely to extend more than 30 years.
Bench Height	6m
Bench Width	8m
Individual bench slope	63 ⁰
Overall pit slope	30 ⁰
Drilling/Blasting	Not Applicable. Only Ripper and dozers will be used to break hard rock.
Crushing/Screening	The Iron Ore will be transported to mobile dry crushing and screening plant. Dry Crushing and screening of ROM (Run of Mine) shall be done by mobile plants.
RoM output size	500 mm (max)
Transportation details	ROM/Crushed and Screened ore will be transported through tippers/trucks by road for domestic sale or transported to nearest port for export.
Dumpers capacity	10 tonner/35 tonner
Waste	During the ensuing Mining Plan Period about 2.93million tonnes of waste will be generated. The same will be backfilled in the worked out portion of the pit within the Mining Lease.

vi. Water requirement:

Total water requirement	210 KLD	Fresh water	0
		Treated water	210 KLD
Source	Mining Pit		
Permission	Permission from CGWA will be obtained.		

vii. Nearest village / town/ highway/railway station / water bodies/monument:

Particulars	Particular's Name	Distance &Directions
Village	Redi Village	0.5 km, NW
Town	Vengurla	20 km, N
Road	Ajgaon - Terekhol Road passes towards east of Mineral Block boundary.	2 km, E
Railway Station	Sawantwadi Road Railway Station	20 km, NE

Water Bodies	Shiroda creek Terekhol creek Kanyal Water Tank Arabian sea	1.2 km, N 2.0 Km, SE 0.9 km, SEE 0.552 km, SW
Fort	Terekhol Fort	1.9 km

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

Forest Land/Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	Nil
National park	No	
Wildlife Sanctuary	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	No	
Schedule-I species	PP submitted that the study will be conducted after receipt of ToR.	

ix. Green belt/plantation details:

Proposed area for green belt/plantation	0.7252 Ha
Budget for green plant & plantation till the end of life of mine.	Rs. 1.5 Lakhs
Budget for nursery	Not Applicable
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	0.7252
50 m safety zone of nallah, roads, electric lines	None
500 m safety zones of nearest habitation villages	None

x. Rehabilitation & Resettlement:

R & R details	Not Applicable
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xi. Court case details:

Court Case	None
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xii. Details of Project Cost and Employment:

Particulars	Details
Project Cost	Rs 800 Lakhs.
Employment	19 (Direct) & 124 (Indirect)

3. Observation and Recommendation of the Committee:

The EAC noted that the instant proposal is for grant of Terms of Reference (ToR) for green field project for mining of Limestone in Auction block. The Project Proponent/Consultant presented the KML file to indicate the surface features in the

study area. The Project Proponent informed the EAC that the nearest Western Ghats Eco-sensitive area is Gulduve Village is located at a distance of 5.07 km from the mine lease area. The EAC asked the Project Proponent to obtain the letter from the Forest Dept. regarding the Western Ghats Eco-sensitive area. The PP also informed the EAC that the Arabian Sea is located at a distance of 502 meters, SW from the mine lease area and the instant proposal does not attract the CRZ clearance. The Institute of Remote Sensing has carried out the survey and gave the certificate that the instant mine lease area does not attract the CRZ clearance. PP also informed that the State Govt. while granting the mine lease, the State Govt. have excluded the areas of the CRZ. The EAC asked the Project Proponent to get the authentication letter in this regard from the SCZMA/State Govt. Further, the Project Proponent informed the EAC that the mine lease area is located at a distance of 0.7 km from the Interstate boundary of Maharashtra-Goa and attracts the general conditions and falls under Category 'A'. The EAC on viewing the KML file noted that the working pits are visible in the mine lease area and the area is occupied by a dense vegetation. PP informed that there are two another mines found adjacent to the mine lease area. The boundary of the mine lease area is shared between the M/s Gogte Minerals and obtained the permission from the DGMS regarding working in common boundary. After detailed deliberations made by the Project Proponent and the Consultant, the EAC noted the mine lease area is located in the close proximity of the CRZ and the Western Ghats Eco-Sensitive Area and without any authentication from the concerned Dept., the instant proposal cannot be considered further and therefore, the EAC **deferred** the proposal for want of additional information: -

- i. The Project Proponent needs to obtain the letter from the Forest Dept. regarding the Western Ghats Eco-sensitive area.
- ii. The Project Proponent needs to obtain the letter from the State Coastal Zone Management Authority (SCZMA) with regards to CRZ.
- iii. The Project Proponent needs to submit the letter from the Dept. of Geology & Mining stating whether the Project Proponent has carried out the mining activity in the instant mine lease area or not.

2.4 Vangar & Madhiya Limestone Mine of M/s Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil: Mahuva, District: Bhavnagar, Gujarat - [F.No: J-11015/152/2016-IA.II(M), Proposal No: IA/GJ/MIN/403568/2022] - Terms of Reference (ToR)

The proposal is for mining of Limestone in Vangar & Madhiya Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil: Mahuva, District: Bhavnagar, Gujarat.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 21°02'2.35"N to 21°03'40.13"N and Longitude 71°39'18.3"E to 71°41'05"E. The mine lease area falls under the Survey of India Toposheet No: 41 O/12 (restricted) and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The Project Proponent submitted that earlier Terms of Reference (ToR) was granted by the Ministry vide letter dated 03.01.2017 and extension of validity of ToR vide letter dated 16.03.2020. The draft EIA report was submitted to the Gujarat Pollution Control Board and public hearing was scheduled on 16.12.2021. However, Public hearing has been postponed by Gujarat Pollution Control Board due to "unavoidable circumstances" vide Board letter no. GPCB/PH/2020-21/Bhavnagar-42/608748 dated 13.12.2021. Since the conduct of public hearing has got delayed, Project Proponent will not be able to submit the Final EIA report within the stipulated time of validity of ToR. Hence, the Project Proponent submitted the fresh proposal for grant of Terms of Reference.
- iv. The Project Proponent submitted that the mining lease was granted by Industries and Mines Department, Govt. of Gujarat vide Order no: MCR-102004-1827-CHH dated 08.01.2017 for Limestone and Marl to M/s Nirma Limited over an area of 612.13.36 ha for a period of 50 years for its captive consumption.
- v. Land Use/Land Cover of the Mine lease area:

Private land	586.4789 ha
Government land	25.6547 ha
Total Mining lease area (MLA)	612.1336 ha
Private land for crusher, workshop & other infrastructure outside the MLA	No facilities proposed outside the mine lease area. However crusher will be installed at company's Cement Plant.

vi. Details of Mining Plan:

Review and updation of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	File No.: 684(4)(1)/MP-347(196)/2021-22 GNR/1125
	Date	05.08.2021
	Mineral	Limestone
	Mine lease area	612.1336 ha

	Validity	2021-22 to 2025-26 (31.03.2026)	
Mining Parameters	Quantitative Description		
Method of Mining	Opencast mechanized		
Geological resource	35.539 Million Tonnes		
Mineable reserve	14.913 Million Tonnes		
Life of mine	13 years * Life of mine may be increased subject to conversions of resources under 333 category to category of reserves 111.		
Bench Height	6.0 m		
Bench Width	12-15m		
Individual bench slope	80-85°		
Overall pit slope	~ 45°		
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Parameters will be 6.6 m depth x 4.0 m spacing x 3.0 m burden. Slurry explosive -cap sensitive and non-cap sensitive.		
Transportation details	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease/through dumpers/trucks to the Soda Ash Plant located at Kalatalav, Bhavnagar.		
Dumpers capacity	25 tonnes		
Overburden	Nil		
Additional information (if any)	Mining will be carried out by using Continuous surface miner with combination of excavator / loader and dumpers. Conventional method i.e. Drilling & blasting shall be proposed for handling of limestone as well for 50% total handling at limestone mine.		

vii. Water requirement:

Total water requirement	42.0 KLD	Fresh water	3.0 KLD
		Treated water	39.0 KLD
Source	i. Fresh water source Narmada water pipeline/Water tanker ii. Water harvested within mine lease during rainy season iii. Treated water source- Reject water of RO /DM plant & Reject water of RO /DM plant (proposed at Cement plant)		
Permission	Permission for water withdrawal from Narmada water pipeline has been obtained vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 04.06.2008.		

viii. Nearest village / town/ highway/railway station / water bodies/monument:

Particulars	Particular's Name	Distance & Direction
Village	Vangar	0.25 km, NW
	Madhiya	0.25 km, SE
Town	Mahuva	6.2km, ENE
Highway	NH-51 (Una-Mahuva highway)	Within
Railway Station	Amrutvel	2.0 km, N
Water bodies	Arabian Sea Coast	3.4 km, S to the HTL
	Samdiyala Bandhara	2.3 km, SSW
	Bhambhali River	0.9 Km, W
Monuments	Bhavani Temple, Mahuva	11.8 km, SE

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

Forest Area/Environmental Zone	Land/Protected Sensitivity	Yes/No	Details of Certificate/letter/Remarks
Forest Land		No	Nil
National park		No	
Wildlife Sanctuary		No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)		No	
Schedule-I species		Yes	Peafowl, Chinkara and Asiatic lion are the Schedule - I species observed in the study area.
Status of Wildlife Conservation Plan		Yes	Wildlife Conservation Plan has been prepared.

x. Green belt/plantation details:

Proposed area for green belt/plantation	26.50 Ha
Budget for green plant & plantation till the end of life of mine.	80.35 Lakhs
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	16.50
50 m safety zone of nallah, roads, electric lines	10.00
500 m safety zones of nearest habitation villages	-

xi. The Project Proponent submitted that baseline study conducted during 1st March 2021 to 2nd June 2021 (Summer season).

xii. Rehabilitation & Resettlement:

R & R details	The Project Proponent submitted that there is no displacement proposed from the mining lease area as
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	habitation of villages falls outside the mining lease area.
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- xiii. The Project Proponent submitted that there is no litigation pending against the project and/or land in which the project is proposed to be set up.
- xiv. The Project Proponent submitted that the total project cost is Rs 25.0 Cr and about 58 persons will get employment.

3. Observation and Recommendation of the Committee:

The EAC noted that the Project Proponent earlier obtained Terms of Reference vide letter dated 03.01.2017 and extension of validity of ToR vide letter dated 17.03.2020 for the period upto 12.11.2021 and the Project Proponent submitted the draft EIA report to the Gujarat Pollution Control Board and public hearing was scheduled on 16.12.2021. The Project Proponent informed the EAC that the Public hearing has been postponed by Gujarat Pollution Control Board due to “unavoidable circumstances” vide Board letter dated 13.12.2021 and since the conduct of public hearing has got delayed, Project Proponent will not be able to submit the Final EIA report within the stipulated time of validity of ToR and hence the fresh proposal for grant of Terms of Reference was submitted.

The Project Proponent presented the KML file to indicate the site features in the study area. The Project Proponent has shown the three mine leases located adjacent to each other. PP also informed that the Arabian Sea is located at a distance of 3.4 km, S to the HTL from the mine lease area. No National Park, Wildlife Sanctuary within 10 km radius of the study area. Further, PP has shown the working pits in the KML file. Then, the Project Proponent began the technical presentation.

The Project Proponent informed the EAC that the mining lease has been granted on 08.01.2017 for a period of 50 years. Baseline data was already collected during Summer Season, 2021. Mining Plan approved on 05.08.2021. Life of the mine is 13 years. Water requirement is 42.0 KLD. No groundwater intersection due to mining activity. The Limestone will be transported through internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease through dumpers / trucks to the Soda Ash Plant located at Kalatalav, Bhavnagar. Crusher is proposed in proposed cement plant in the vicinity of ML area. Peafowl, Chinkara and Asiatic lion are the Schedule - I species observed in the study area. Mine working will be on two shift basis. The EAC asked the Project Proponent to submit the proposal for backfilling at the time of appraisal of EC.

After detailed deliberations made by the Project Proponent and the Consultant in the 7th EAC (Non-Coal Mining) meeting held during 5th - 6th December, 2022, the EAC **recommended** the proposal for grant of Terms of Reference (ToR) under the provisions of EIA Notification, 2006 and its subsequent amendments for mining of Limestone in Vangar & Madhya Limestone Mine of M/s Nirma Limited for mining of

Limestone with production capacity of 1.6 MTPA in the mine lease area of 612.1336 ha, located at Villages Vangar & Madhiya, Tehsil: Mahuva, District: Bhavnagar, Gujarat for undertaking detailed EIA/EMP study subject to the following specific conditions in addition to the standard ToR conditions applicable for non-coal mining projects:-

- i. In view of the agricultural land proposed under the mining lease area, the Project Proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and beneficiaries.
- ii. The Project Proponent shall ensure that the shallow pits up to depth of 4 m shall be refilled and reclaimed and given back to the farmers as agriculture land. Return all the proposed non-mining area to farmers/owners of the land. The mining plan, *inter-alia*, should include the above mentioned details with regard to pits and reclamation.
- iii. The Project Proponent needs to submit the detailed note on mining methodology with specific reference to Continuous Surface Miner.
- iv. The Project Proponent needs to submit the action plan for backfilling.
- v. The Project Proponent needs to submit the detailed measures to be taken for protection of turtle breeding sites and also needs to specifically address the movement of Lions and conservation in the Wildlife Conservation plan in consultation with the Forest Department.
- vi. 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. PP also needs to submit the breakup of total excavation in tonnes.
- vii. The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
- viii. The Project Proponent needs to carry out the cumulative impact assessment by considering all the mining activity including the transport scenario of the mines in the study area and should indicate the capacity of each mine considered for predication of air quality modeling. The control case and worst case scenario needs to be demonstrated with controlling factor and GLCs

values for all the pollutants needs to be clearly mentioned. The input parameters used for the modeling also needs to be submitted.

- ix. The Project Proponent needs to revisit the location of the waste dump proposed in the mineralized zone and accordingly shall submit the map showing the revised location.
- x. The Project Proponent needs to submit the detailed R&R plan covering all the components viz. number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP need to submit the plan for Socio economic development of the neighbourhood habitats based on the need based survey along with the time bound action plan. PP also needs to submit the possession certificate and timeline for acquiring the land at the time of appraisal of EC.
- xi. The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
- xii. The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
- xiii. The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.
- xiv. 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 through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.
- xv. The Project Proponent needs to submit the documents related to part surrender of the mine lease area at the time of appraisal of EC.
- xvi. The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC.

2.5 Gujarda, Dudheri & Dudhala Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 2.7 MTPA in the mine lease area of 681.62 ha, located at Villages Gujarda, Dudheri & Dudhala, Tehsil: Mahuva, District: Bhavnagar, Gujarat - [F.No: J-11015/153/2016-IA. II(M), Proposal No: IA/GJ/MIN/406830/2022] - Terms of Reference (ToR)

The proposal is for mining of Limestone in Gujarda, Dudheri & Dudhala Limestone Mine of M/s Nirma Limited for mining of Limestone with production capacity of 2.7 MTPA in the mine lease area of 681.62 ha, located at Villages Gujarda, Dudheri & Dudhala, Tehsil: Mahuva, District: Bhavnagar, Gujarat.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 21°01'1.31"N to 21°03'44.86" N and Longitude 71°41'15.21"E to 71°43'38.54"E. The mine lease area falls under the Survey of India Toposheet No: 41 O/12 (restricted) and falls in Seismic Zone-III.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The Project Proponent submitted that earlier Terms of Reference (ToR) was granted by the Ministry vide letter dated 13.11.2017 and extension of validity of ToR vide letter dated 16.03.2020. The draft EIA report was submitted to the Gujarat Pollution Control Board and public hearing was scheduled on 16.12.2021. However, Public hearing has been postponed by Gujarat Pollution Control Board due to "unavoidable circumstances" vide Board letter no. GPCB/PH/2020-21/Bhavnagar-43/608747 dated 13.12.2021. Since the conduct of public hearing has got delayed, Project Proponent will not be able to submit the Final EIA report within the stipulated time of validity of ToR. Hence, the Project Proponent submitted the fresh proposal for grant of Terms of Reference.
- iv. The Project Proponent submitted that the mining lease was granted by Industries and Mines Department, Govt. of Gujarat vide Order no: MCR-102004-1943-CHH dated 08.01.2017 for Limestone and Marl to M/s Nirma Limited over an area of 681.62.00 ha for the period of 50 years for its captive consumption.
- v. Land Use/Land Cover of the Mine lease area:

Private land	565.9454 ha
Government land	115.6746 ha
Total Mining lease area (MLA)	681.62 ha

Private land for crusher, workshop & other infrastructure outside the MLA	No facilities proposed outside the mine lease area. However crusher will be installed at company's Cement Plant.
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vi. Details of Mining Plan:

Review and updation of Mining Plan along with Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	File No.: 684(4)(1)/MP-348(197)/2021-22 GNR/1121
	Date	04.08.2021
	Mineral	Limestone
	Mine lease area	681.62 ha
	Validity	2021-22 to 2025-26 (31.03.2026)
Mining Parameters	Quantitative Description	
Method of Mining	Opencast mechanized	
Geological resource	57.280 Million Tonnes	
Mineable reserve	20.574 Million Tonnes	
Life of mine	11 years * Life of mine may be increased subject to conversions of resources under 333 category to category of reserves 111.	
Bench Height	6.0 m	
Bench Width	12-15m	
Individual bench slope	80-85°	
Overall pit slope	~ 45°	
Drilling/Blasting	Multi-row drilling and V-pattern drill holes for deep hole drilling and blasting. Parameters will be 6.6 m depth x 4.0 m spacing x 3.0 m burden. Slurry explosive -cap sensitive and non-cap sensitive.	
Transportation details	Internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease/through dumpers/trucks to the Soda Ash Plant located at Kalatalav, Bhavnagar.	
Dumpers capacity	25 tonnes	
Overburden	Nil	
Intersection of Groundwater table	Depth to Water level in the area ranges between (+) 3.0m to (-) 1.5m AMSL. However, mining will be restricted up to +1.0m AMSL. Hence, ground water table shall not be intersected in plan period.	
Additional information (if any)	Mining will be carried out by using Continuous surface miner with combination of excavator / loader and dumpers. Conventional method i.e. Drilling & blasting shall be proposed for handling	

	of limestone as well for 50% total handling at limestone mine.
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vii. Water requirement:

Total water requirement	44.0 KLD	Fresh water	3.0 KLD
		Treated water	41.0 KLD
Source	iv. Fresh water source Narmada water pipeline/Water tanker v. Water harvested within mine lease during rainy season vi. Treated water source- Reject water of RO /DM plant & Reject water of RO /DM plant (proposed at Cement plant)		
Permission	Permission for water withdrawal from Narmada water pipeline has been obtained vide letter No. GWIL/Bhavnagar/Ind.conn./1257 dated 04.06.2008.		

viii. Nearest village / town/ highway/railway station / water bodies/monument:

Particulars	Particular's Name	Distance & Direction
Village	Gujarda, Dudheri, Dudhala Madhiya Padhiarka	0.2-0.5 km 0.5 km, NW 0.5 km, W
Town	Mahuva	4.0km, NE
Highway	NH-51 (Una-Mahuva highway)	Within
Railway Station	Amrutvel	2.0 km, N
Water bodies	Arabian Sea Coast	0.5 km to the HTL
	Malan Bandhara	4.0 km SE
	Bhambhali River	5.4 Km, W
Monuments	Bhavani Temple, Mahuva	8.5 km, SE

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

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	No	Nil
National park	No	
Wildlife Sanctuary	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	No	
Schedule-I species	Yes	Peafowl, Chinkara and Asiatic lion are the Schedule - I species observed in the study area.
Status of Wildlife Conservation Plan	Yes	Wildlife Conservation Plan has been prepared.

x. Green belt/plantation details:

Proposed area for green belt/plantation	30.00 Ha
Budget for green plant& plantation till the end of life of mine.	90.95 Lakhs
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	10.00
50 m safety zone of nallah, roads, electric lines	10.00
500 m safety zones of nearest habitation villages	-
Additional information (if any)	10.00 ha (Backfilled area (Govt. wasteland))

xi. The Project Proponent submitted that baseline study conducted during 1st March 2021 to 2nd June 2021 (Summer season).

xii. Rehabilitation & Resettlement:

R & R details	The Project Proponent submitted that there is no displacement proposed from the mining lease area as habitation of villages falls outside the mining lease area.
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xiii. The Project Proponent submitted that there is no litigation pending against the project and/or land in which the project is proposed to be set up.

xiv. The Project Proponent submitted that the total project cost is Rs 25.0 Cr and about 84 persons will get employment.

3. Observation and Recommendation of the Committee:

The EAC noted that the Project Proponent earlier obtained Terms of Reference vide letter dated 03.01.2017 and extension of validity of ToR vide letter dated 17.03.2020 for the period upto 12.11.2021 and the Project Proponent submitted the draft EIA report to the Gujarat Pollution Control Board and public hearing was scheduled on 16.12.2021. The Project Proponent informed the EAC that the Public hearing has been postponed by Gujarat Pollution Control Board due to “unavoidable circumstances” vide Board letter dated 13.12.2021 and since the conduct of public hearing has got delayed, Project Proponent will not be able to submit the Final EIA report within the stipulated time of validity of ToR and hence the fresh proposal for grant of Terms of Reference was submitted.

The EAC on viewing the KML file noted that the Arabian Sea is located at a distance of 0.5 km to the HTL from the mine lease area. The EAC also noted that in the technical presentation and in Prefeasibility report, there is discrepancy in the information provided by the Project Proponent w.r.t date of grant of Terms of Reference and date of grant of mining lease. The Project Proponent has not uploaded the earlier granted ToR letters, copy of the lease deed execution and copy

of letter from the State Govt. regarding reduction of mine lease area from 1489.4701 ha to 681.62 ha and lease area surrendered documents in Parivesh. During deliberations before EAC, it was observed that the Project Proponent has informed the EAC that there will be no generation of OB but small quantity of topsoil will be generated. The EAC asked the Project Proponent to submit the breakup of the total excavation in tones to be handled annually. The EAC also observed that the project proponent is proposing the waste dump in the mineralized zone and the EAC asked the Project Proponent to revisit the location of the proposed waste dump. Therefore, the EAC **deferred** the proposal for want of following additional information: -

- i. The Project Proponent shall ensure that the dates of the grant of mining lease, ToR letters etc., shall be similar in the Prefeasibility report, technical presentation and other relevant documents and accordingly shall revise the same.
- ii. The Project Proponent needs to submit the breakup of the total excavation in Tonnes to be handled annually.
- iii. The Project Proponent needs to revisit the location of the proposed waste dump in the mineralized zone and accordingly shall submit the map showing the revised location.
- iv. The Project Proponent needs to submit the copy of the lease deed execution and letter from the State Govt. regarding reduction of mine lease area from 1489.4701 ha to 681.62 ha and lease area surrendered documents.
- v. The EAC noted that the Arabian Sea is located at a distance of 0.5 km to the HTL from the mine lease area. The Project Proponent needs to submit the letter from the State Coastal Zone Management Authority (SCZMA) stating that the instant mine lease area does not attract the CRZ clearance.

2.6 Proposal for amendment in EC dated 17.08.2022 for Expansion in Environmental Clearance of Gudipadu Limestone mine of M/s Sagar Cements (R) Limited in the mine lease area of 454.59 ha for increase in Production Capacity of Limestone from 1.0 MTPA to 4.70 MTPA with Total Excavation of 4.85 MTPA (Limestone: 4.70 MTPA + Top Soil: 0.15 MTPA) along with existing crusher of 350 TPH capacity and proposed crusher of 1200 TPH capacity, located at Village Gudipadu, Mandal Yadiki, District Ananthapuramu, Andhra Pradesh - [F.No. J-11015/231/2012.IA-II(M), Proposal No: IA/AP/MIN/267825/2020, Consultant: B.S. Envi-Tech Pvt. Ltd.] - Amendment in EC

The instant proposal is for amendment in EC dated 17.08.2022 for Expansion in Environmental Clearance of Gudipadu Limestone mine of M/s Sagar Cements (R) Limited in the mine lease area of 454.59 ha for increase in Production Capacity of Limestone from 1.0 MTPA to 4.70 MTPA with Total Excavation of 4.85 MTPA (Limestone: 4.70 MTPA + Top Soil: 0.15 MTPA) along with existing crusher of 350 TPH capacity and proposed crusher of 1200 TPH capacity, located at Village Gudipadu, Mandal Yadiki, District Ananthapuramu, Andhra Pradesh.

2. The details of the project as ascertained from the document submitted by the Project Proponent and as revealed from the discussions held during the meeting, are given as under:

- i. The mine lease area is located between Latitude 15°04'51.55"N to 15°07'28.07"N and Longitude: 77°57'55.91"E to 78°00'16.56"E. The mine lease area falls under the Survey of India Toposheet No: 57 E/16 & 57 I/4 and falls in Seismic Zone - II.
- ii. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals of the schedule of the EIA Notification, 2006 and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.
- iii. The project was granted Environmental Clearance (EC) by the Ministry vide its letter No. J-11015/231/2012.IA-II(M) dated 17.08.2022 and one of the specific condition 5 (A), iii, specifically mentioned that "*The expansion of Limestone production from 1.0 MTPA to 4.70 MTPA will be operational only after the commissioning of new crusher of 1200 TPH along with the Over Land Belt Conveyor (OLBC). Till then the capacity of the mine will remain up to 1.0 MTPA. New crusher and conveyor will be tested for 1.0 MTPA first and then the mine shall commission for 4.70 MTPA. The commission of new crusher of 1200 TPH capacity along with the conveyor shall be intimated to the Ministry's Integrated Regional Office. Accordingly, SPCB shall not grant Consent to Operate (CTO) for the expansion capacity of 4.70 MTPA production*".
- iv. The similar proposal for amendment in EC was considered in the 4th EAC (Non-Coal Mining) meeting held during 28-29 September, 2022 wherein the EAC opined that while appraising the proposal for grant of Environmental Clearance (EC), detailed deliberations on dismantlement of existing crusher of 350 TPH capacity and proposal of new crusher of 1200 TPH capacity along with the conveyor was discussed in detail and the EAC was of the view that the unless the new crusher and conveyor is in place, the Project Proponent shall not increase the production capacity from the existing EC capacity of 1.0 MTPA. Therefore, the EAC did not accept the request of the Project Proponent and the EAC returned the proposal in present form.
- v. Now, the Project Proponent again submitted a fresh proposal for amendment in EC dated 17.08.2022. The Project Proponent submitted that because of the

increase in the clinker production capacity from 0.75 to 1.00 MTPA through modernization, limestone requirement shall increase from 1.0 to 1.5 MTPA to achieve 1.0 MTPA of Clinker. PP also submitted that in view of the above it is necessitating to amendment in EC dated 17.08.2022 to use the existing 350 TPH crusher and conveyor for achieving 1.5 MTPA of Limestone production from Gudipadu Limestone Mine for 1.0 MTPA clinker production (Unit - I) till the installation of new crusher and Conveyor. Further, PP submitted that the 1200 TPH New crusher and conveyor will be commissioned for the proposed expansion to achieve 4.7 MTPA of limestone production. After commission of new conveyor belt of 1200 TPH the existing conveyor of 350 TPH will be stopped. PP also submitted the adequacy of the crusher & conveyor as mentioned below: -

Particulars	Details
Capacity of the existing Crusher & Conveyor	350 TPH
Present limestone crushing and conveying	1.0 MTPA production = 3330 TPD
Crusher and Conveyor operation	$3330/350 = 9.5$ hrs
Proposed limestone crushing and conveying	1.5 MTPA production = 5000 TPD
Crusher operation and Conveyor	$5000 / 350 = 14$ hrs

Crusher and Conveyor will be operated for additional 4.5 hrs to meet the limestone requirement of 1.5 MTPA of Unit -1. The Mining Plan was modified accordingly and the approval was obtained from Indian Bureau of Mines (IBM) for the same after inspecting at site. The new Cement Plant will be commissioned only along with new crusher and new belt conveyor of 1200 TPH capacity.

- vi. The Project Proponent sought for amendment in EC dated 17.08.2022 as mentioned below in Table.

S. No	Reference of Environmental Clearance (EC) dated	As per Environmental Clearance (EC) dated	Amendment sought by the Project Proponent	Remarks submitted by the Project Proponent	
1	Specific Condition 5 (A), iii, Pg. No: 12	17.08.2022	The expansion of Limestone production from 1.0 MTPA to 4.70 MTPA will be operational only after the commissioning of new crusher of 1200 TPH along with the Over Land Belt	To use the existing 350 TPH crusher and conveyor for achieving 1.5 MTPA of Limestone production from Gudipadu Limestone mine for 1.0 MTPA clinker production	Project Proponent submitted that because of the increase in the clinker production capacity from 0.75 to 1.00

		Conveyor (OLBC). Till then the capacity of the mine will remain up to 1.0 MTPA. New crusher and conveyor will be tested for 1.0 MTPA first and then the mine shall commission for 4.70 MTPA. The commission of new crusher of 1200 TPH capacity along with the conveyor shall be intimated to the Ministry's Integrated Regional Office. Accordingly, SPCB shall not grant Consent to Operate (CTO) for the expansion capacity of 4.70 MTPA production.	(Unit - I) till the installation of new crusher and conveyor.	MTPA through modernization, limestone requirement shall increase from 1.0 to 1.5 MTPA to achieve 1.0 MTPA of Clinker. The requirement of increased Limestone for the existing Unit-I (1.0 to 1.5 MTPA) is immediate. The plant may be stopped for want of Limestone by end of December 2022.
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3. Observation and Recommendation of the Committee: -

The EAC noted that similar proposal for amendment in EC dated 17.08.2022 was earlier appraised in the EAC (Non-Coal Mining) meeting held during 28-29 September, 2022 wherein the EAC opined that while appraising the proposal for grant of Environmental Clearance (EC), detailed deliberations on dismantlement of existing crusher of 350 TPH capacity and proposal of new crusher of 1200 TPH capacity along with the conveyor was discussed in detail and the EAC was of the view that the unless the new crusher and conveyor is in place, the Project Proponent shall not increase the production capacity from the existing EC capacity of 1.0 MTPA. Therefore, the EAC did not accept the request of the Project Proponent and the EAC returned the proposal in present form.

The EAC also noted that the Project Proponent again submitted the proposal for amendment in EC dated 17.08.2022 w.r.t amendment in specific condition 5 (A), iii, which states that *“The expansion of Limestone production from 1.0 MTPA to 4.70 MTPA will be operational only after the commissioning of new crusher of 1200 TPH along with the Over Land Belt Conveyor (OLBC). Till then the capacity of the mine will remain up to 1.0 MTPA. New crusher and conveyor will be tested for 1.0 MTPA first and then the mine shall commission for 4.70 MTPA. The commission of new crusher of 1200 TPH capacity along with the conveyor shall be intimated to the*

Ministry's Integrated Regional Office. Accordingly, SPCB shall not grant Consent to Operate (CTO) for the expansion capacity of 4.70 MTPA production”.

The Project Proponent/Consultant informed the EAC that it is proposed to produce 1.50 MTPA Limestone at present to meet the Unit – I requirement against the EC granted capacity of 4.7 MTPA until Unit – II is installed. PP also informed the EAC that because of the increase in the clinker production capacity from 0.75 to 1.0 MTPA through modernization, limestone requirement will increase from 1.0 to 1.5 MTPA. The requirement of Limestone for the existing Unit-I from 1.0 to 1.5 MTPA is immediate and also the production of 1.0 MTPA of Limestone will be exhausted by December, 2022. Otherwise, the operation of the plant may have to be stopped for want of Limestone by the end of December 2022. Hence, it is necessitating to amendment in EC dated 17.08.2022 to use the existing 350 TPH crusher and conveyor for achieving 1.5 MTPA of Limestone production from Gudipadu Limestone till the installation of new crusher and Conveyor. Further, the Project Proponent informed the EAC that the Crusher and Conveyor will be operated for additional 4.5 hrs to meet the limestone requirement of 1.5 MTPA of Unit -1.

The EAC was of the view that as on date the Project Proponent is having the Environmental Clearance (EC) for a production capacity of 1.0 MTPA and now the Project Proponent seeking amendment for additional 0.5 MTPA i.e., 1.5 MTPA which will be against the EC dated 17.08.2022. The EAC reiterated the para 154 (b) & (c) of the 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 which are given as under: -

(b) the permissible production for the year in which the environmental clearance was obtained for the first time has been considered on pro rata basis of (a) the prescribed annual production and (b) the date of the grant of the environmental clearance. For this purpose the environmental clearance granted on or before 15th of a month has been considered valid for the entire month. Where the environmental clearance has been granted after 15th of a month it has been considered valid from the subsequent month. For example if the environmental clearance for a mining lease has been granted say on 10th October, 2008 for an annual production of say 12 lakh MT then in that case the permissible production for the mining lease for the year 2008-09 would be taken as 6 lakh MT (12x6/12 lakh MT) and 12 lakh MT per annum in the subsequent year; and

(c) wherever a mining lease having environmental clearance has been granted revised environmental clearance for a higher production the permissible annual production for the year, during which the revised environmental clearance has been granted, has been considered on pro rata basis of the quantities prescribed in the earlier environmental clearance and the revised environmental clearance. For example if the mining lease was

having environmental clearance for annual production of 12 lakh MT and say on 28th September, 2009 it has been granted revised environmental clearance for annual production of say 24 lakh MT then in that case the permissible production for the year 2009-10 would be taken as 18 lakh MT (12x6/12+24x6/12) and 24 lakh MT per annum in subsequent years.”

In light of the above, the EAC observed that the Project Proponent informed that the production of 1.0 MTPA of Limestone will be exhausted by December, 2022. Hence, the EAC asked the Project Proponent to submit the certified past production details from the Department of Mines and Geology for the period 01.04.2022 to 30.11.2022 for detailed examination. Therefore, the EAC **deferred** the proposal.

List of members of Expert Appraisal Committee participated through VC

S.No	Member Name	Member Address	Designation	5 th Dec., 2022	6 th Dec., 2022
1	Dr. Dinesh Misra, IFS (Retd.)	Plot No 65, Sector 8, Gandhinagar, Gujarat, 382 008	Chairman	Yes	Yes
2	Sh. Niranjan Kumar Vasu, IFS (Retd.)	816, Shanti Nagar, Opposite Durgapur Railway Station, Jaipur-Rajasthan, 302018	Member	Yes	Yes
3	Dr. Asha Rajvanshi Scientist 'G' (Retd.), WII	B/104/106 Rock Valley Apartments, GMSRoad, Sewla Kalan, P.O. Majra, Dehradun, Uttarakhand-248171	Member	Yes	Yes
4	Shri. Avijit Ghosh (CMD- Heavy Engineering Corporation Limited) (Retd.)	Singhee Marg, A-604 Shahadeo Tower, P.P.Compound, Ranchi 834001, Jharkhand	Member	Yes	Yes
5	Shri. Bandi Ramchandra Reddy (CMD-South Eastern Coalfields Limited)- (Retd.)	Flat No-503 A, Jyoti Cosmos, White Fields, Hi-Tech City, Kondapur, Hyderabad-500081	Member	Yes	Yes
6	Prof.Pramod Kumar, Professor, Shri Aurobindo College, University of Delhi	Shri Aurobindo College, University of Delhi 1372, B-1, Vasant Kunj, New Delhi- 110070	Member	No	No
7	Prof.DeveshWalia, Professor, Department of Environmental Studies	Department of Environmental Studies, NEHU, Shillong-793022 Meghalaya	Member	Yes	Yes
8	Dr. Suresh Tiwari Scientist-F	Indian Institute of Tropical Meteorology, Pune, New Delhi Branch, Prof. Ram NathVijMargRajinder Nagar, New Delhi -	Member	No	No

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9	Dr. K.G Asha Manjari, Professor, University of Mysore	10/B, "SPARSHA", 2nd Main, 2 nd Cross,BhogadiInd Stage, Mysore-570026, Karnataka	Member	Yes	Yes
10	Prof. Dev Dutt Sharma, Vice-Chancellor	Sardar Patel University,Mandi H.P. 175001	Member	No	No
11	Shri V. K. Soni, Representative of India Meteorological Department	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No
12	Representative of Indian Bureau of Mines	Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	No
13	Shri Niazi Mohammed	Representative of Directorate General of Mines Safety	Member	Yes	Yes
14	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbagh, New Delhi-110003.	Member Secretary	Yes	Yes
