

Minutes of 33rd meeting of Expert Appraisal Committee for the proposal involving violation of EIA Notification, 2006 held on 18th - 19th May, 2020 through video conferencing

Day 1: 18th May, 2020

Time: 11.00 AM to 04:30 PM

33.1. Opening remarks of the Chairman

33.2. Confirmation of the minutes of the 32nd meeting held on 22nd- 23rd April, 2020 at Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

33.3 Proposal for consideration

33.3.1 Proposed manufacturing unit of bulk drugs and intermediates at Plot No. E12, Chincholi MIDC, Taluk Mohol, District Solapur (Maharashtra) by M/s Sree Kartikeya Kameshwari Industries – Further consideration for Environmental Clearance [IA/MH/IND2/110313/2018 dated 14.10.2018] [F. No. 23-130/2018-IA.III]

Details submitted by the Project Proponent

- i.** The Project Proponent and the Accredited Consultant M/s. Equinox Environments (I) Pvt. Ltd. made a detailed presentation on the salient features of the project and informed that:
- ii.** The proposal is for Environmental Clearance (EC) to the proposed project of establishment of Bulk Drugs and Intermediates Manufacturing Unit at Plot No. E-12, Chincholi MIDC, Tal: Mohol, Dist: Solapur, Maharashtra by Sree Kartikeya Kameshwari Industries (SKKI).
- iii.** Standard ToR has been issued by Ministry vide letter no. 23-130/2018-IA-III (V) dated 20th July, 2018.
- iv.** All Bulk Drugs and Intermediates Manufacturing Industry are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B'. But due to applicability of General Condition i.e. the Great Indian Bustard (GIB) Sanctuary is located within 5 Km of the project area. Hence, the project is appraised at Central Level by Expert Appraisal Committee (EAC) as category A as per Ministry of Environment, Forest & Climate Change Notification No. S.O. 1598 (E), dated 25.06.2014.
- v.** Total plot area acquired by industry is 2.405 Ha.
- vi.** Industry will develop an area of 0.88 Ha under green belt during establishment of proposed project which accounts for 36 % of total plot area.
- vii.** The estimated cost for proposed project is Rs.5.28 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 2.3 Crores and the Recurring cost (operation and maintenance) will be about Rs. 0.45 Crores per annum.
- viii.** Total Employment is of 100 persons as direct as well as indirect under proposed SKKI project. Industry proposes to allocate Rs.0.15 Crores @ of 2.84 % of total investment towards Corporate Environmental Responsibility.

- ix.** It is reported as per Form- I, that boundary of Great Indian Bustard (GIB) Sanctuary lies within 5 km distance. River Sina is flowing at a distance of 6 Km in South West direction.
- x.** Ambient air quality monitoring was carried out at 8 locations during February 2018 – April 2018 and submitted baseline data indicates that ranges of concentrations of PM₁₀(42.78 – 73.14 µg/m³), PM_{2.5}(10.09 – 22.80 µg/m³), SO₂ (10.96 – 30.85 µg/m³) and NO_x(13.58 – 40.06 µg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 2.06 µg/m³ PM₁₀ (on South side), 0.016 µg/m³ PM_{2.5} (on South side), 0.612 SO₂ µg/m³ (on South side) and 0.441 NO_x µg/m³ (on South side). The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- xi.** Total water requirement for proposed project will be 208.68 CMD. Out of this, 195.68 CMD will be for industrial purpose, 5 CMD for domestic purpose and 8 CMD of gardening. Out of total water requirement 208.68 CMD, 120.3 CMD will be fresh water and 43.38 CMD will be recycled Process water after Distillation, 42 CMD will be treated water from ETP which will be used for industrial processes and 3 CMD will be treated water from STP used for flushing purpose. Water required for proposed operations shall be taken from MIDC water supply scheme.
- xii.** The Stream I effluent generated would be to the tune of 49.57 M³ / Day. Same comprise of effluent from manufacturing operations viz. process effluent and washing. This effluent will be treated in an ETP comprising of Screen Chamber, OG Removal Tank, Equalization Tank, Flash Mixer, Flocculator, Tube Settler, Holding Tank followed by Triple Effect Evaporator (TEE) and Agitated Thin Film Dryer (ATFD). The condensate from TEE to the tune of 48 M³ / Day would be forwarded to Stream II for treatment. Further salts from TEE would be forwarded to authorized re-processor. The Stream II effluents generated would be to the tune of 12 M³ / Day, MEE condensate from Stream I of 48 M³ / Day. Stream II effluent shall be contributed by DM back wash, boiler blow down, and cooling blow down. The same will be treated Screen Chamber, OG Removal Tank, Equalization Tank, Flash Mixer, Flocculator, Primary Tube Settler (PTS), MBBR Tank, Secondary Tube Settler (STS), Holding Tank, Filter Feed Tank, Sand and Carbon Filters and R.O. Unit & Sludge dewatering equipment. The treated water from stream II of 42 M³ / Day would be recycled back for cooling make up. The RO reject 18 M³ / Day will be sent to MEE in Stream-I treatment thereby achieving Zero Liquid Discharge (ZLD).
- xiii.** Power required to the tune of 0.6 MW for the proposed unit would be taken from MSEB grid. Also, two D.G. sets of 250 KVA shall be installed and the same shall be used during power failure only.
- xiv.** Under proposed unit one boiler of capacity 5 TPH each will be installed. Imported Coal to the tune of 30 TPD each will be used as fuel for the same. MDC followed by Bag Filter along with stack of 30 M height each will be installed to the same for controlling the particulate emission. One TFH of each having capacity 8 Lakhs Kcal/Hr will be installed on site. A stack of 18 M height will be installed to the same along with MDC followed by Bag filter as APC.
- xv.** Details of Process emissions generation and its management –

Sl. No.	Plant	Process Emissions	Control Equipment	Packing Material Used in Scrubber	Scrubber Media	Dia. of Column	Height of Column	Disposal of Scrubbed Media
1	Column	Nitric	Scrub	Ceramic	Water	400 mm	21.5	Byproduct

	1	Acid	ber	Saddles				
2	Column 2							
3	Column 3							

xv. Details of Solid waste/ Hazardous waste generation and its management.

Details of Solid waste generated & its management

Sl No.	Type of Waste	Quantity	Disposal
1	Boiler Ash	2 MT/Day	Sold to brick manufacturers for secondary use
2.	Scrap Material	60 MT/Yr	By Sale as scrap
3.	Office paper waste	1 MT/Yr	
4.	Woven sack Bag (HDFE)	0.50 MT/Yr	
5.	Drums	450 Nos./Yr	

Details of Hazardous waste generated & its management

Sl No.	Type of Waste	Quantity	Disposal
1	Cat.: 20.3 Distillation Residue	0.7 MT/M	CHWTSDF
2	Cat.: 28.1; Process Residue (Un-reacted)& Waste	2.0 MT/Day	
3	Cat.: 34.3; ETP Sludge	0.1MT/Day	
4	Cat.:34.3; Salts generated from MEE	1.0 MT/Day	Sold to Authorized Reprocessor

xvi. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 29.01.2019 at Jaykumar Patil Udyog Bhavan, Plot No. P-7, MIDC, Solapur Industries, Association Building, MIDC Chincholikati, Tal.: Mohol, Dist.: Solapur. No major issues raised during the public hearing.

xvii. Details of Certified compliance report submitted by RO, MoEF&CC.-The project site has been inspected and certified by the Regional Officer; MoEF&CC, Nagpur during his visit on 28.09.2019 and certification report dated 01.10.2019 was forwarded by the Regional Office to MoEF&CC Nagpur.

xviii. Status of Litigation pending against the proposal, if any : No

xix. Following are the list of proposed products:

Details of Products

Sl. No.	Name of Product	Quantity (MT/D)
1.	Methyl 2-(4-(4-chlorobutanoyl)phenyl)-2-methylpropanoate	0.5
2.	Nicotinic Acid Methyl Ester/Ethyl Ester	0.5
3.	Pyridine-3-Carboxamide(Niacin Amide)	3.5

4.	3-Pyridine Carboxylic Acid (NIACIN)	7.68
5.	4-Pyridine Carboxylic Acid (ISONIACIN)	0.51
6.	2,3 Lutidine & 3,5 Lutidine	0.5
	Total	13.19

Observations and recommendations of committee in the 27th Meeting held on 31st October 2019- 01st November 2019:

PP along with the consultant made the detailed presentation before the EAC and informed that Manufacturing Industry are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' as it is located in the notified Industrial area. But due to applicability of General Condition i.e. the Great Indian Bustard (GIB) Sanctuary is located within 5 Km of the project area, the project is appraised at Central Level by Expert Appraisal Committee (EAC). EAC after detailed deliberation on the information submitted and as presented to the Ministry, **deferred** the project for want of following information:

1. ToR compliance to be submitted and presented before the EAC.
2. Public Hearing compliance to the issues raised along with the fund provision with timebound action plan to be submitted.
3. Risk Assessment study related to the storage of chemicals and some solvents used in the process and precautionary measures related to the odour.
4. Impact of VOCs emitted on flora and fauna, agricultural activities in the nearby area and measures to be taken for their protection.
5. Revised damage assessment considering all the environmental attributes and accordingly remediation plan to be submitted.
6. Reasons for high concentration levels of VOCs monitored during the monitoring period.
7. Monitoring details and analytical procedure adopted for VOCs estimation to be submitted.
8. Ultimate analysis of imported Coal used in the boiler to be submitted.
9. If briquette are to be used, calorific value along with the ash content to be submitted.
10. Layout plan showing the green belt to be submitted.
11. Details of proposed green belt to arrest the VOCs.
12. Duly filled in Annexures.

Compliance to above information as sought by the EAC was submitted to the Ministry on 12.01.2020. Accordingly, proposal was listed in the agenda of the 31st EAC meeting held on 28.02.2020 for further consideration of EC.

Observations and recommendations of committee in the 31st meeting held on 28th Feb, 2020:

Proponent did not attend the meeting.

Observations and recommendations of committee in the 33rd meeting (present meeting) held on 18th-19th May 2020

Project Proponent along with the consultant made the detailed presentation on the additional information sought in the 27th meeting. EAC after detailed presentation by the PP, on the ToR compliance and additional information, observed that there are issues which are not addressed properly before the committee and requires further deliberation. EAC therefore after detailed deliberation **deferred** the project for want of following information:

- i. Please submit the certificate from concerned chief wildlife warden the distance from GIB sanctuary ESZ to proposed Industry along with authenticated map.
- ii. Status of wildlife clearance and copy of minutes of meeting
- iii. Details of inventory of chemicals including hazardous chemicals presently and also at any time along with per day usage shall be submitted. Also submit the detailed safety measures and SOP being implemented during transportation, storage and handling of hazardous chemicals.
- iv. Details regarding safety measures for storing hazardous chemicals and during operational phase and also submit detailed onsite and offsite emergency plan whenever any accident occurs.
- v. Application along with wildlife conservation plan for Conservation of Schedule I species in the study area of the project shall be submitted to the Chief Wildlife warden for approval.
- vi. Air quality prediction modeling with and without control measures during construction phase. Stack details of different stacks, i.e. boiler, condensate/solvent recovery unit, and DG set with emission rates of PM₁₀, PM_{2.5}, SO₂, NO_x, CO and VOCs should be given. How the calibration of VOCs monitoring instrument is done, kindly provide the details.
- vii. Capital cost of the project shall be revised considering land cost and various other components in the project site since as informed by PP the present mentioned has included the common ETP cost
- viii. Details of ETP operation and actual characteristics of Low and High organic load streams along with the characteristics of final treated effluent and skilled manpower dedicated for the operation of the same. Provide the monitoring data of effluent (Raw and Treated) collection system
- ix. Baseline study report related to odour monitoring at the project site and in the study area.
- x. Proof of Credible action initiated.
- xi. Revised damage cost assessment and proposed activities therein as suggested by the Committee specifically during construction and the consumables like water, cement, etc were found to be very much on the lower side and impacts due to total excavation and top soil handling and transport, etc needs to be considered and damage to be assessed and remediation accordingly. Damage assessment shall also consider the shortfall in RWH system to be in place for the total plot area considering the annual rainfall besides roof RWH system for the already built up area.
- xii. Details regarding total built up area already constructed (%) shall be revised based on the total built up area rather than on Plot area and accordingly damage assessment to be revised,
- xiii. Activity wise EMP capital cost and recurring cost to be submitted, but not include the CER cost in EMP capital cost.
- xiv. Submit activity wise CER cost with phases based on the revised capital cost
- xv. Copy of water allocation by Industrial Estate
- xvi. Detailed Green belt plan already developed and to be developed with type of species.
- xvii. Details of exposure specific health status evaluation of worker.

xviii. Worst case scenario related to Air and Water in case of Reaction and Reactor failure be given.

33.3.2 Expansion of Grain based Distillery from 25 KLPD to 60 KLPD at Sy. No. 284 (B), Subhash Nagar, Village Gaurgaon, Taluka Kallamb, District Osmanabad (Maharashtra) by M/s Adlers Bio-Energy Limited - Terms of Reference [F. No. J-11011/422/2011-IA.II(I)]

Project Proponent did not attend the meeting.

33.3.3 Marble mining project ML Area of 46.2109 Ha only by excluding the surrender area of 4.80 Ha of at Villages Zarivav, Khokharbilly, Koteshwar&Chikla, Tehsil Danta, District Banaskantha (Gujarat) by M/s Hindustan Marble Pvt. Ltd. – Re-consideration for Terms of Reference [IA/GJ/MIN/66906/2017 dated 23.07.2017] [F. No. 23-173/2018-IA.III (V)]

Details submitted by the Project Proponent

1. Project Description

The Proposal of M/s Hindustan Marble Private Limited is for Mining of Marble from Zarivav, Khokharbilly, Koteshwar&Chikla Blocks for Total ROM Excavation 7,88,340 Tonne per annum (TPA) [including 39419 tons of marble waste, O.B, Inter Burden, Top Soil etc.] from mining lease operating area of 46.309 Ha (51.0109 Ha) located at Villages Zarivav, Khokharbilly, Koteshwar&Chikla, Tehsil Danta, District Banaskantha, State Gujarat by M/s Hindustan Marble Private Limited.

2. Project Background

The proposal of M/s Hindustan Marble Private Limited is for ROM production of 7,88,340 Tonne per annum (TPA) of Marble from Zarivav, Khokharbilly, Koteshwar&Chikla Blocks (ML operating area of 46.309 Ha of total lease area of 51.0109 Ha, located at Survey No. G43S15, at Villages Zarivav, Khokharbilly, Koteshwar & Chikla, Tehsil Danta, District Banaskantha, State Gujarat. The mining lease is located on Survey of India Topo-sheet no. G43S15. The area is bounded between the coordinates Latitude 24°20'17.45" N to 24°21'27.94" N and Longitude 72°51'45.83" E to 72°52'56.72" E

3. Category of the Project (Refer cluster certificate if applicable)

The said project/activity is covered under category B (as the area is less than 100 ha) of item 1a of the Schedule to the EIA Notification, 2006 as amended till date but requires prior EC from the MoEF&CC as BAW falls within study area.

4. Violation Details & Sectorial EAC/SEAC Comments

Application for EC was submitted to MoEF&CC

- Proposal No 24351 Submitted on 9th October, 2014.
- Application for ToR was submitted to MoEF&CC on 29th June, 2016.
- Online application was made on 23rd July, 2017 as per S.O.804 (E) dated 14th March, 2017 under violation window.

Appraisal by EAC in its meetings

- 8th Meeting of EAC (non-coal mining) held during July 21st-22nd, 2016.
- 10th EAC violation (non-coal mining) meeting held on 11th July 2017.
- 18th EAC meeting violation (non-coal mining) meeting held on 14th December 2017.

Final observation/recommendations of the EAC (non-coal mining)

- Based on the information submitted by the project proponent, the committee noted that the mine lease was renewed with effect from 24th February 2007, which made it mandatory for the project proponent to obtain EC at the time of renewal of the mine lease area as per EIA notification 2006. As the project proponent was mining till date without EC, it was a violation. The committee also noted that the project proponent was mining about 1 KM from Balaram-Ambaji Wild Life Sanctuary without NBWL clearance, which was a violation of the Wildlife Protection Act.

Consideration of the proposal by the EAC (violation) recommendations

- The case was considered for meeting in Violation Committee on 11th July, 2018 during which the Committee granted Terms of Reference.
- The case was considered for meeting in Violation Committee on 14th Dec, 2018 during which the Committee deferred Terms of Reference.

Further consideration of the proposal by the EAC (violation) recommendations

Based on the Non Coal Sector observance that the KML file of DSS cell of FC Division found that the Lease Area Koteswar (1)Block is at distance of 1 km and Chikla (2) Block is at distance of 0.76 km from Sanctuary, the case was again referred to Violation Committee and heard on 14th Dec, 2018. The Committee deferred Terms of Reference.

5. Application (Form-1 & PFR)

Fresh application was made online vide proposal no. IA/GJ/MIN/66906/2017 dated 23rd July, 2017 under violation category for Term of References (ToR) in terms of provision of the Ministry's Notification S.O 804 (E) and submitted Form-1 and PFR.

6. Details of Minerals

Number of minerals: 1

Whether mineral is major or minor: Minor

Status of same mineral before 2006 (major or minor): Major

7. Details of Minerals

Letter from the Deputy Director of Mines and Geology, existing mining lease sanctioned in 1987 for period of Twenty years. Lease was renewed vide order number MMR/102008-514CHH1 dated 31.12.2012. The lease period will expire on 24.02.2037.

8. Method of Mining & Mining Plan Details

- The mining plan was approved under Rule 17 MCDR, 2002 for Marble deposit by Commissioner of Geology and Mining, Gandhinagar, Gujarat Letter no. CGM/MC/448/5344 on 23/06/2014.
- Modified mining plan was approved under Rule 37 of GMMCR, 2017 & MDCR, 2002 for Marble deposit by Commissioner of Geology and Mining, Gandhinagar, Gujarat Letter no.

CGM/MC/BK/1001/3733 on 06/12/2017. This modification was due to exclusion of Koteshwar block from mining operation.

- Now Revised Mining Plan under Rule 17 MCDR, 2002 & Rule 37, 38 & 39 of GMMCR, 2017 has been submitted for approval which considers effective operative lease area of 46.2109 ha after excluding the surrendered 4.8 ha of the total 51.0109 ha for mining operation in part of Chikla Block (2), Zarivav – Khokharbilly block (3) & Koteshwar Block (4) & non operative lease area of 4.8 ha in Koteshwar block (1) & part of Chikla block (2).
- Please provide the details of drilling & blasting, bench height and width, ultimate pit limited, ultimate pit slope, intersection of ground water table if any.:
 - Drilling & Blasting: There is short hole (32 mm dia) blasting proposed are designed with Single row blasting of 5holes or double row blasting with 10 holes only coupled with milliseconds delay detonators, and Burden, Spacing, Depth.
 - Bench Height & width: Height : 6 m Width: more than height
 - Ultimate Depth of Pit: 390 mRL
 - Overall Pit Slope Angle: 45°
- Intersection of ground water: There will be no intersection of ground water.
- Number of top soil dumps with area and capacity, no of waste/reject dump with area and capacity:
- Top Soil Dump: Soil will not be generated during the plan period. Small quantity if generated will be utilized during plantation.
- Waste/reject dump: Major part of the lease area is mineralized; therefore waste material will be stacked in existing stack area or near lease boundary over existing OB dumps. About 5.765 ha area will be required for waste dumping.
- During the plan period and at the conceptual stage, backfilling plan if any,

No backfilling will be undertaken. The mined out area will be used as water reservoir.
- Details of crushers /screen/beneficiation plant if any with capacity and numbers, water requirement for the project, plantation details, green belt details.

Not proposed.
- Land use as per mining plan at the end of plan period and at conceptual stage

S. No.	Description	Land use till end of MP/MS period	To be reclaimed & rehabilitated end of MP/MS period	To be reclaimed & rehabilitated till end of life of mine	Remark

1	Mining (Quarry)	16.124	0	0	
2	Waste Dump	5.765	0	0	
3	Infrastructure	1.305	0	0	
4	Processing Plant	0	0	0	
5	Mineral Stack	1.005	0	0	
6	Top soil	-	0		
7	Road	1	0		
8	Subgrade stack	0	0	0	
9	Green Belt-Plantation	0.06	0.06	17.2	1.00 Ha green Belt
10	Water course/pond	0	0.09	33.8109	3.80 Ha water reservoir
11	Others	25.259	0	-	4.80 Ha under surrender.
Total		51.0109	51.0109	51.0109	51.0109

9. Other Waste Generation, if any:

- [Details of any other waste generated during mining activity and its mitigation measures
It was proposed that around 39419 tonnes of mineral reject will be generated during plan period. This reject is inclusive of what is known as rubbles, which are sold regularly. Part of unsold rubbles is stacked near pit as a dump yard.

10. Land Use (Forest/Agricultural/Waste):

- [Details of necessary clearance/permission in case of Forest /Agricultural/ Waste land/Grazing land and water bodies involved in the ML Area]. In case Forest Land involved, furnish details about status of Forest Clearance]
Mining lease area falls under forest land which has been diversified by Central Government under Section - 2 of the forest (Conservation) Act, 1980.

11. Details of past production since inception of mine authenticated by Mining department

Hindustan MarbelPvt Ltd.				
Pre 1994-95 Production (ROM) achieved 359925 MT				
Sr. No	Year	ROM Production (TPA)	Production	
			Block (TPA)	Rubble (TPA)
1	1991-92 (April-March)	115989	9287	3060.978
2	1992-93 (April-March)	117843	15557.629	5192.875
3	1993-94 (April-March)	359925	17064.281	4243.089
4	1994-95 (April-March)	97594	12608.55	3657.315
5	1995-96 (April-March)	82960	13975.125	11268.335

6	1996-97 (April-March)	67263	16944.983	9264.21
7	1997-98 (April-March)	69893	10670.16	10978.835
8	1998-99 (April-March)	62964	16743.56	17084.045
9	1999-2000 (April-March)	72089	24954	30565
10	2000-2001 (April-March)	83368	28455.975	41495.481
11	2001-2002 (April-March)	121741	31672.835	84382.815
12	2002-2003 (April-March)	110041	35811	71100.42
13	2003-2004 (April-March)	113378	36429	67449.215
14	2004-2005 (April-March)	141344	54035.633	80469
15	2005-2006 (April-March)	248489	42182.14	96866.155
16	2006-2007 (April-March)	188749	36591.75	150311.09
17	2007-2008 (April-March)	230045	44293.769	184627.41
18	2008-2009 (April-March)	270935	51037.765	219897.625
19	2009-2010 (April-March)	295512	56716	237323
20	2010-2011 (April-March)	301106	52061	247888
21	2011-2012 (April-March)	334885	58447.92	275206
22	2012-2013 (April-March)	359598	61252.14	275314.76
23	2013-2014 (April-March)	288098	42181	244245.78
24	2014-2015 (April-March)	287908	36547.05	249550.59
25	2015-2016 (April-March)	313518	43254	269040.56
26	2016-2017 (April-March)	391234	36054.39	355180.55

12. Applicability of General Condition & Status of SEIAA

- Submit details about Wildlife Sanctuaries or Habitats for any Specific Wildlife within 10 km radius of the ML Area]

The project involves mining from 4 different blocks namely Zarivav, Khokharbilly, Chikla&Koteshwar. BalaramAmbaji Wildlife Sanctuary is falling at the following distances from each block:

Zarivav&Khokharbilly Block: 2.291 km

Koteshwar Block: 0.624 km

Chikla Block: 0.918 km

Koteshwar Block: 2.202 km

- [Status of SEIAA i.e operation or tenure is over (provide details in case proposal is of category B only]

Not applicable

- Submit details about Aravalli/Doon Valley/ Western Ghats/Eco-Sensitive area, if any]
- Not applicable

13. Project Cost & Employment:

- [Furnish-Details of Project Cost & Employment. Details about economic development package under different heads (example: education, skill development, health care, road

network etc.). Budget details (both capital and recurring) for planning of mining activities with respect to safety and environment quality sustenance, execution of mining activity as per mining plan, preservation of biodiversity and awareness program etc.]

Project Cost: INR 5 Crores

Employment: At present Mining operation is stopped and when the Mining commences, 84 worker and staff will be employed at site.

Details about economic development package will be prepared during EIA/EMP preparation and submitted.

14. Affidavit for SC Order 2.08.2017:

Note: Submit affidavit to 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

We undertake to submit the affidavit to comply with all the statutory requirements.

15. Status of DSR, in case of minor mineral

- Note: Submit status of DSR in case of minor mineral. If available, please submit.

Not available

Observations and recommendations of committee of 10th EAC meeting held on held on 11-12th July, 2018:

Committee has observed that it is not expansion proposal and proposal is for Mining of Marble of production capacity 7,88,340 by M/s Hindustan Marble Pvt. Ltd in an area of 51.0109 ha. The EAC, after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended for issuing Standard Term of Reference along with the following specific Term of Reference for undertaking EIA/EMP:

- i. The State Government/SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC.
- ii. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- iii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- vi. The PP is required to conduct public hearing as per EIA notification, 2006.

- vii. Socio Economic Study following standard procedures to be included, impacts due to project activities need to be assessed and remedial measures, during Construction and Operation, to be proposed based on the Field Study and Public Hearing.
- viii. Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- ix. The Project Proponent shall give an undertaking by way of affidavit to 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. before grant of ToR/ EC. The undertaking inter alia include commitment of the PP not to repeat any such violation in future. In case of violation of above undertaking, the ToR/Environmental Clearance shall be liable to be terminated forthwith.
- x. Compliance of the order of Hon'ble Supreme Court dated 02.08.2017 in the Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus

Observations and recommendations of 16th EAC meeting held on held on 13th-14th December, 2018:

EAC in its 16th meeting observed that above proposal of M/s Hindustan Marble Pvt Ltd was considered in 10th EAC meeting of violation wherein committee recommended the proposal for grant of Standard terms of reference along with Specific terms of reference.

EAC noted that above proposal was again referred to Violation committee by Non coal sector as after verification of KML file by DSS cell of FC division, one block "Koteshwar" was found within 1 km and other block "Chikhla" is lies 0.76 km from the Sanctuary.

PP informed that they had already submitted an application to local DFO with regard to actual distance from mining lease boundary to BalaramAmbaji Wild Life Sanctuary.

Therefore, in view of above, the EAC defer the proposal for issue of ToR, and advised the PP to submit authenticated map vetted by Chief Wildlife Warden (CWLW) with regard to location of mine lease and BalaramAmbaji Wild Life Sanctuary.

Observations and recommendations of 33rd EAC meeting held on 18th -19th May 2020 (Present meeting)

Project Proponent along with the consultant made the presentation on the additional information sought in the 16th EAC meeting. EAC after presentation on the additional information noted the following:

- i. PP made application to PCCF and DCF of Wildlife Forest Department to provide details of distances of concerned mining lease blocks from BalajiAmbaji Wildlife Sanctuary. The Deputy Conservator of Forest has issued a letter confirming the following distances:

LEASE BLOCK	SY NO	DISTANCE FROM BAW-SANTUARY
1. KOTESHWAR	62	0.624KM
2. CHIKHLA	88	0.918KM
3. ZARIVAV	61	2.291KM
KHOKAR BILLI	10	
4. KOTESHWAR	62	2.202KM

- ii. PP has submitted proposal for surrendering 4.80 ha of lease area falling within 1 km boundary of BAW Sanctuary to the District Mining Authority of Geology & Mines Department. The Authority has accepted our request proposal of surrendering the lease area and is processing our application as per Rule 42 (2) of GMMCR-2017 and they have directed us to produce the Environment Clearance Certificate.
- iii. Revised Mining Plan under Rule 17 MCDR, 2002 & Rule 37, 38 & 39 of GMMCR, 2017 has been submitted for approval which considers effective operative lease area of 46.2109 ha after excluding the surrendered 4.8 ha out of the total 51.0109 ha for mining operation in part of Chikla Block (2), Zarivav – Khokharbilly block (3) & Koteshwar Block (4) & non operative lease area of 4.8 ha in Koteshwar block (1) & part of Chikla block (2).
- iv. PP has submitted revised Form I & PFR, LOI.
- v. PP has not submitted authenticated map vetted by Chief Wildlife Warden (CWLW) with regard to location of mine lease and Balaram Ambaji Wild Life Sanctuary

EAC deliberated on the information presented before the EAC. EAC after detailed deliberation **deferred** the project for want of following information

- i. Coordinates of each blocks (blocks retained for mining and blocks surrendered) authenticated by the concerned department
- ii. Revised Mining Plan of 46.2109 ha after excluding the surrendered 4.8 ha out of the total 51.0109 ha
- iii. Details regarding the matter pending before the Honorable NGT in OA2 of 2019 along with the status.
- iv. Revised land use Plan in tabular form for both at conceptual and end stage after the surrender of mining lease.
- v. Authenticated map vetted by Chief Wildlife Warden (CWLW) with regard to location of mine lease and Balaram Ambaji Wild Life Sanctuary.
- vi. Hard copies of all the documents including affidavit and letter issued by the Deputy Conservator of Forest regarding distances of blocks from WLS be submitted to the Ministry.

Day 2: 19th May, 2020

Time: 12.00 PM to 5.30 PM

33.4.1 Proposed expansion of Insecticide (Insecticide Active Ingredients) production plant at Brahmanpara, P.O. & P.S. - Haripal, District Hooghly, west Bengal by M/s Solex Chemicals Pvt. Ltd. – Terms of Reference [IA/WB/IND2/70221/2017] [F. No. J-11011/511/2017-IA-II(I)]

Project Proponent did not attend the meeting.

33.4.2 Sponge Iron Plant (4X100 TPD), Induction furnace (2×12T +1X12T), Rolling Mill (90,000 TPA) and 18 MW power plant [6 MW WHRB, 2 MW Coal char based and 10 MW Coal based] of M/s Jharkhand Ispat Private Limited located at Hesla, P.O. Argada, District Ramgarh, Jharkhand – Terms of Reference [F. No. J-11011/41/2013-IA.II(I)]

Details submitted by the project proponent:

1. M/s Jharkhand Ispat Private Limited (JIPL) has established 2 x100 TPD Sponge Iron Plant at Village Hesla, P.O. Argada, District Ramgarh, Jharkhand after obtaining CTE from Jharkhand State Pollution Control Board (JSPCB) on 31.07.2003. Environmental clearance for installation of the Plant, as per EIA Notification 1994, was not required as the project cost was less than 100 Crores.
2. JIPL installed another 2 x100 TPD Sponge Iron Plant and 240 TPD MS Billet Plant (2x12 Ton Induction Furnace with Billet caster) after obtained CTE from JSPCB on 06.11.2006
3. JSPCB issued Consent to Operate (CTO) for operation of all installed Units till 30.09.2012. At the time of renewal of CTO for the period 01.10.2012 to 30.09.2013, JSPCB directed the proponent to stop operation of the 2x100 TPD Sponge Iron Plant and 240 TPD MS Billet Plant installed during 2006 till Environmental Clearance is obtained. JSPCB granted CTO for the period 01.10.2012 to 30.09.2013 only for operation of 2x100 TPD Sponge Iron Plant, installed during the year 2003.
4. JIPL submitted application on 11.01.2013 for grant of TOR for obtaining EC vide letter no. JIPL/1124/12-13 on for 2x100 TPD Sponge Iron Plant and 240 TPD MS Billet Plant which are under violation and 1x12 Ton Induction Furnace, 90,000 TPA Rolling Mill & 12 MW Power Plant under expansion.
5. Proposal was considered in 7th Reconstituted EAC Meeting of MoEF&CC on 04.04.2013 and as the proposal is for violation, MoEF&CC vide letter dated 12.06.2013 directed JIPL to submit compliance as per OM dated 12/12/2012. JIPL submitted the Board Resolution and Credible action to MoEF&CC on 04.01.2014.
6. The proposal was considered in 31st Reconstituted EAC meeting held on 08.01.2015 and again on 1st EAC Meeting held on 20.11.2015 and TOR for the project was recommended. MoEF&CC vide letter dated 08.01.2016 granted TOR.
7. FINAL EIA was submitted to MoEF&CC on 25.04.2018. Public Hearing for the project was held on 06.05.2017. EDS issued by MoEF&CC on 17.01.2019 mentioned;

“The proposal is involved Violation for EIA Notification, 2006. Therefore, you are requested to make application under violation after issue of such notification for dealing of violation proposals”

The proposal is delisted the proposal from Ministry’s website on 07.06.2019

8. JIPL requested MoEF&CC to relist the project and transfer the same to the violation committee as ‘Lateral Proposal Entry’, as per MoEF&CC OM 09/09/2019.
9. The total land area of the plant is 14.38 Ha (35.54 Acres). The existing land of the plant is 25.54 Acres (10.34 Ha.). Additional 10 Acres (4.04 Ha.) is taken on 30 years lease from M/s Durga Cements Co. Ltd., Ramgarh for installation of the proposed units.
10. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located in the core and buffer zone of the project. The area also does not report to form corridor for Schedule-I fauna.
11. Capital cost of proposed project is Rs. 186.63 crores. Cost of the non-violating and Violating installed Units is Rs. 86.39 Cr. Hence total cost of the project is Rs. 273.02 Cr. Proposed employment generation from the project will be 174 direct employments and approx. 250 indirect employments.
12. The targeted production capacity of the plant will be as follows:

Sl.No.	Units	Existing Units		Units under Violation		Proposed Units		Total Units after Expansion	
		Facility	Prod. (TPA)	Facility	Prod. (TPA)	Facility	Prod. (TPA)	Facility	Prod. (TPA)
1.	Sponge Iron	2x100 TPD DRI Kilns	60000	2x100 TPD DRI Kilns	60000	-	-	4x100 TPD DRI Kilns	120000
2	SMS								
	Induction Furnace	-	-	2x12T		1x12T		3x12T	
	Billet Caster	-	-	2x6/11	80000	1x 6/11	40000	3x 6/11	120000
3.	Rolling Mill	-	-	-	-	300 TPD	90000	300 TPD	90000
5.	Captive Power Plant								
	AFBC Boiler	-	-	-	-	1 No.	12 MW	1 No.	12 MW
	WHRB	-	-	-	-	4 Nos.	6 MW	4 Nos.	6 MW

13. Total power requirement will be 17.6 MW. Initially power will be sourced from Grid. After commissioning of Captive Power Plant 16.2 MW power will be available from 18 MW Power Plant and balance 1.4 MW power shall be taken from the Grid.
14. The raw material requirement and fuel requirement after the project expansion are:

S.No.	Item	Requirement in TPA		
		Non-Violating Units	Violating Units	Proposed Units

1.	Iron Ore	102,000	102,000	-
2.	Non-Coking Coal	84,000	84,000	65,000
3.	Limestone	3,000	3,000	-
4.	Ferro Alloys	-	1,224	612
5.	Scrap	-	19,957	3,978

The iron ore for the plant will be procured from West Singhbhum, Jharkhand & Barbil, Odisha and non-coking coal from CCL. The transportation of Ore & Coal will be done by rail up to Barkakhana Railway siding then by road. Fuel consumption will be mainly HSD.

15. Total water consumption for the project will be 2906 KLD (Existing: 532KLD, Proposed: 2374 KLD) and will be sourced from Damodar River. Domestic waste-water will be treated in Septic Tank with Soak Pit and Industrial waste water generated will be treated in Neutralisation Pit and reused for slag cooling and dust separation etc.

Observations and recommendations of 33rd EAC meeting held on 18th -19th May 2020 (Present meeting)

Proposal was not discussed on technical aspect by the EAC as PP has not submitted the violation details in Form 1 which is mandatory and a prerequisite to appraise the project for ToR. Further, details of the projects including kml file were circulated late to the EAC members by the PP. EAC therefore **deferred** the project for submission of following:

1. Revised Form 1 and PFR having details of violation.
2. Year wise production details including total cost of the project, prior to September 2006.
3. Hard copies of all the documents duly signed be submitted to the Ministry.

33.4.3 Kadadiha China Clay Mine of M/s Jagdish Mines & Metals Pvt. Ltd. For exploration of China Clay occurring in the ML area of 367.058 Ha located at villages Kadadiha No.26, Khandabandha No. 43, Kudarbisida No.45 and Rugudi No. 44, Tehasil Jashipur, District Mayurbhanj, Odisha - Terms of Reference [IA/OR/MIN/73975/2018 dated 04.04.2018] [F. No.23-233/2018-IA.III (V)]

Details submitted by the Project Proponent

1. Project description

The Proposal of M/s Jagdish Mines & Metals Pvt. Ltd is for Mining of China Clay from Kadadiha China Clay Mine of M/s Jagdish Mines & Metals Pvt. Ltd. for total Excavation of 3,02,931 Ton per annum (TPA) along with existing Beneficiation Plant. The Beneficiation plant is consisting of Washing Plant of Washed China Clay production capacity of 12,000 MT per month, Calcined China Clay Plant of monthly production capacity 2,700 MT and production of Silica Sand of Capacity 8,500 MT per month from mining lease area of 367.058 ha located at Villages Kadadiha and spread over in the villages Kadadiha No.26, Khandabandha No. 43, Kudarbisida No.45 and Rugudi No. 44, under Tehasil: Jashipur, District Mayurbhanj, State Odisha by Jagdish Mines & Metals Pvt. Ltd.

2. Project Background

The proposal of M/s Jagdish Mines & Metals Pvt. Ltd is for production of 0.302931 Million Ton per annum (MTPA) or 3,02,931 TPA of China Clay along with existing Beneficiation Plant. The Beneficiation plant is consisting of Washing Plant of Washed China Clay production capacity of 12,000 MT per month, Calcined China Clay Plant of monthly production capacity 2,700 MT and production of

Silica Sand of Capacity 8,500 MT per month, from Kadadiha China Clay Mine of M/s Jagdish Mines & Metals Pvt., ML area of 367.058 ha located at Villages Kadadiha and spread over in the villages Kadadiha No.26, Khandabandha No. 43, Kudarbisida No.45 and Rugudi No. 44, under Tehasil: Jashipur, District Mayurbhanj, State Odisha. The mining lease is located on Survey of India Topo-sheet no.F45N13 (73 G/13) and F45O1 (73K/1).

The Lease area bounded by latitudes and longitudes are given below.

Pillar No.	Latitudes	Longitudes
Pillar – A	21 ⁰ 55' 35.5" (N)	86 ⁰ 00' 09.9" (E)
Pillar – B	21 ⁰ 56' 33.0" (N)	86 ⁰ 00' 49.5" (E)
Pillar – C	21 ⁰ 56' 45.6" (N)	86 ⁰ 00' 08.0" (E)
Pillar – D	21 ⁰ 56' 24.6" (N)	85 ⁰ 59' 54.1" (E)
Pillar – E	21 ⁰ 56' 39.0" (N)	85 ⁰ 59' 11.2" (E)
Pillar – F	21 ⁰ 55' 59.9" (N)	85 ⁰ 58' 54.1" (E)
Pillar – G	21 ⁰ 55' 38.8" (N)	85 ⁰ 59' 59.7" (E)
Pillar – H	21 ⁰ 55' 44.4" (N)	86 ⁰ 00' 04.6" (E)
Pillar – I	21 ⁰ 55' 38.6" (N)	86 ⁰ 00' 07.6" (E)
Pillar – J	21 ⁰ 55' 36.7" (N)	86 ⁰ 00' 06.2" (E).

3. Category of the project (Refer cluster certificate if applicable)

The said project/activity is covered under category 'A' of item 1 (a) Mining of Minerals and 2 (b) Mineral Beneficiation of the Schedule to the EIA Notification, 2006 as amended, and requires prior EC from the MoEF&CC based on the appraisal by Expert Appraisal Committee (Violation).

4. Violation Details & Sectorial EAC/SEAC Comments

The lease deed for the 1st term was executed on 04/02/1975 over an area of 405.000 ha. for a period of 20 years. The 1st lease term had expired on 03/02/1995 and the 1st renewal of Kadadiha China Clay Mines was granted by the Govt. of Odisha on 22/06/1998 and the RML was executed on 21/08/1998 over an area of 367.058 ha. w.e.f 04/02/1995 for 20 years. Then the RML -1 was valid till 03/02/2015. Before the expiry of the RML 1, Lessee applied for 2nd renewal on dated 31/01/2014. In the changed scenario, the lease is valid upto 03/02/2030 as per the Mines and Minerals (Development & Regulations) Amendment Act 2015.

The mine started operation in 1975. On dtd. 03/04/2012 the mining operation was suspended by the instruction of the Mining Officer, Baripada due to want of Environmental Clearance.

Type of Violation: Started the work onsite without prior Environmental Clearance under EIA Notification, 2006. Presently the said mine is not operational since 03/04/2012.

5. Application (Form -1 &PFR)

Fresh application was made online vide proposal no. IA/OR/MIN/73975/2018 dated 04/04/2018 under **violation category** for Term of References (ToR) in terms of provision of the Ministry's Notification S. O 804 (E) and submitted Form-1 and PFR. The proposed project activity is covered under 'Schedule 1 (a) Mining of Minerals and 2 (b) Mineral Beneficiation (Project Sector: Non- Coal Mining) of the EIA Notification 2006 and is a category 'A' Project.

6. Details of Mineral

Number of Minerals :One (**China Clay**)

Whether mineral is major or minor :Minor Mineral

Status of same mineral before 2006 (major or minor) : China Clay was not classified as Major or Minor.

7. Letter of Intent (LoI)/Mining Lease Details:

The lease deed for the 1st term was executed on 04/02/1975 over an area of 405.000 ha. for a period of 20 years. The 1st lease term had expired on 03/02/1995 and the 1st renewal of Kadadiha China Clay Mines was executed on 21/08/1998 over an area of 367.058 ha. w.e.f 04/02/1995 for 20 years. Then the RML -1 was valid till 03/02/2015. Before the expiry of the RML 1, Lessee applied for 2nd renewal on dated 31/01/2014. In the changed scenario, the lease is valid upto 03/02/2030 as per the Mines and Minerals (Development & Regulations) Amendment Act 2015.

8. Method of Mining & Mining Plan Details:

Method of Mining: In the proposed plan period (first five years of Plan Period after obtaining EC and Execution of the Lease as per Amended MMDR 2015) a quantity of about 3,02,931 MT/Yr of raw china clay has been proposed for production. To achieve the required production target, semi mechanised open cast mining with single shift operation and with additional mining equipment and manpower shall be adopted. In the proposed mining plan period only existing quarry-1 has been proposed for development. The height of the benches shall be 3 meter and width shall be maintained at more than 3 meters. The individual bench faces will be maintained at a slope of around 60⁰-70⁰. Mining machineries like excavators, tippers/dumpers will be utilised for the purpose. As the china clay is soft in nature, no drilling and blasting will be adopted in the lease area. The ore body will be loosened only using excavators. Laborers will be deployed on the face for excavation and loading purpose. Equipments like crowbar, pickaxe, spade, chisel, hand shovel etc, will also be used. The ROM crude china clay will be beneficiated at lessee's own plant. The recovery of crude china clay has been considered as 95 % of the total excavation. The produced silica sand which will be saleable will be stacked separately for its commercial value. The haul road used for movement of machineries and for transportation will be maintained at suitable gradient. Inter-bench ramp has been planned to facilitate movement of equipments. Width of proposed inter bench ramp will be laid at a gradient of 1 in 16. Approach road of 10 m width at a gradient of 1 in 16 will be maintained to the proposed dumping site. The approach roads & ramps along with main access road will be regularly graded & compacted to avoid formation of pot holes.

The production target is required to make mining feasible in the lease area. Excavator of capacity 0.9 CUM and 10T/20T tonne capacity dumpers will be engaged for excavation and transportation of china clay. Waste generated from the quarry will be stacked on the proposed dump.

All the mining activities like excavation, loading and transportation will be carried out by using heavy earth moving machineries. Keeping in view the above aspect the proposed method of mining justifies being semi mechanised.

Requirement of Water and Its Source: Both Surface water from rain water harvesting pond and Ground water from mine pit will be used for dust suppression and plantation. Ground water through Deep Bore well will be used for potable use only.

Average water requirement at Kadadiha china clay mine for industrial and domestic use will be to the tune of 65m³/day and 20 m³/day, respectively. Peak water requirement at Kadadiha china clay for domestic and industrial use will be to the tune of 25m³/day and 75 m³/day, respectively. Permission from CGWA will be obtained for drawl of ground water for potable use.

Requirement of Energy / Power and Its Source: 01 (One) number of 50 KVA capacity (Make: Greaves Limited) D. G Set and 01 (One) number of 82.5 KVA capacity (Make: Kirloskar) DG set will be used for running of Plants & Machineries of Beneficiation Plant during power failure. For general lightings, office and Beneficiation plant, the requirement of power is 68 KW. Presently it is sourced from NESCO, Rairangpur, Odisha. HSD/Diesel will be used and sourced from local market.

Employment: Total requirement of employment is 188 numbers. Out of them, 18 numbers are Management & Supervisory Personnel category and 170 numbers are Labourers (Skilled/Semi-skilled/Un-skilled) categories.

Land Use Planning: An area of 44.1148 hectares will be degraded/utilized during the proposed plan period of 5 years and an area of 59.3272 hectares will be utilized during the conceptual period for mining & allied activities.

As the no part of the lease area is getting exhausted, no backfilling proposal has been proposed in this plan period.

However, based on outcome of the exhausted quarry suitable planning would be made for reclamation of the quarries from the next scheme period. Conceptually, the exhausted quarries will be backfilled using the wastes of the dumps and the backfilled areas will be rehabilitated through plantation.

Item wise break-up of the land use are given in Table No. 1.

Table No. 1

Land Use Planning

Sl. No	Type of land use	Area at present in Ha.	Area during plan period in Ha.	Area in Conceptual period in Ha.
1	Area under excavation	6.017	8.807	24.02
2	Overburden dump	0.622	1.73	1.73
3	Mineral storage	0.000	1.321	1.321
4	Top soil stack	0.000	0.313	0.313
5	Roads	3.443	3.8276	3.8276
6	Infrastructure	0.194	0.196	0.196
7	Silica stack yard	0.000	1.2094	1.2094
8	Retaining wall	0.000	0.0317	0.0317
9	Garland drain	0.000	0.0514	0.0514
10	Safety zone /Plantation	26.6277	26.6277	26.6277
Sub-total		36.9037	44.1148	59.3272

11	Area under future mining	330.1543	322.9432	307.7308
Grand Total		367.058	367.058	367.058

Waste Generation and Management: The china clay deposit of the area is associated with lateritic and alluvium. These will be generated from the lease area as waste along with china clay. 1 to 1.5 meter of alluvium as top soil will be generated in the proposed plan period. It is observed that in the process of washing of crude china clay the quantity of finished product (washed china clay) to be generated is to the tune of around 45% of the total raw china clay fed to the beneficiation system. Out of the balance 55%, 40% of the material accounts for silica sand while balance 15% is non-clayey material of waste generation during beneficiation. This silica sand has been proposed to be stored separately and would be sold to intending buyers.

The quantum of lateritic as OB, IB, Silica sand and top soil generated during the plan period is shown in the below Table No. 2. And Waste to be accommodated on the proposed dump are given in Table No. 3.

Table No. 2, Generation of Waste

Year	Vol. of total waste as IB (m ³)	Vol. of total waste as OB (m ³)	Vol. of top soil (m ³)	Vol. of waste as silica sand (m ³)	Total Swell vol. of waste (m ³)
2017-18	5,976	32,210	32,253	1,20,363	2,12,376
2018-19	5,986	17,564	17,606	1,20,554	1,74,429
2019-20	5,988	8,855	9,499	1,20,603	1,54,435
2020-21	5,997	13,685	14,812	1,20,774	1,70,079
2021-22	6,017	4,025	12,397	1,21,172	1,56,008
Total	29,964	76,339	86,567	6,03,466	8,67,336

Table No. 3, Waste to be accommodated on the proposed dump

Year	Vol. of total waste as IB (m ³)	Vol. of total waste as OB (m ³)	Vol. of total waste as (OB+IB) (m ³)	Vol. of total Swell waste (m ³)
2017-18	5,976	32,210	38,186	61,098
2018-19	5,986	17,564	23,550	37,680
2019-20	5,988	8,855	14,843	23,749
2020-21	5,997	13,685	19,682	31,491
2021-22	6,017	4,025	10,042	16,066
Total	29,964	76,339	1,06,303	1,70,084

Selection of dumping site: Dumpsite selected for disposal of the waste has been considered after considering the following criteria.

- The dumpsite has been located outside the mineralized zone beyond ultimate pit limit.
- Topography features have been taken into account, particularly in the context of water drainage.

In the proposed plan period it has been proposed to dump the waste at the western side of the existing quarry-1 between the grid 716W to 760W and 20N to 100S which is beyond the ultimate pit limit. So dump has been proposed in this area. However for confirmation of barrenness of the area, boreholes have been proposed in this area in the first year of operation. If the area is found to be mineralized, then a modification to this mining plan has to be submitted to change the location of proposed dump.

Build-up of dump: in the lease area there are two existing dumps present over an area of 0.622 Ha. A total of 1,06,303m³ of waste will be generated from the quarry in the first five years of plan period. The total quantity of generated waste will be disposed at the western side of the existing quarry over an area of 1.108 Ha with 2 nos. of terraces. The height of each terrace will be 10 meter. Hence total dump area will acquire over an area of 1.73 ha with 20 meter total height. The earmarked site has been shown in EMP plan.

The year wise build-up of dump is given below Table No. 4.

Table No. 4, Year wise build-up of dump

Parameters	2017 -2018	2018 -2019	2019 – 2020	2020 - 2021	2021-2022
Vol. of waste to be accommodate	38,186	23,550	14,843	19,682	10,042
Area	11,080 m ²	Nil	Nil	Nil	Nil
Nos. of terrace	1 no.	1 no.	1 no.	1 no.	1 no.
R. L. at the end of the year	385 mRL	388.8 mRL	391.8mRL	396.6mRL	399.5mRL

The average rainfall in the area is of the order of 1100 mm. During the rainy season to arrest the wash-off of the dumps, following protective measures and precautions are to be undertaken for the proposed waste dump:

- i) The ultimate dump slope will be maintained at 20⁰-22⁰ with individual terraces slopes not exceeding 37⁰.
- ii) The individual terrace heights will be maintained at 10 m.
- iii) Each terrace will have inward slope with catch drains at the inward side of the terrace.
- iv) The catch drains of the individual terrace will be connected to the garland drain outside the periphery of the dump.
- v) These catch drains will have half concrete open pipes followed by settling tanks to avoid wash offs.
- vi) Each terrace will have a provision of berm at the outer end to reduce gully formation due to rain water wash offs.
- vii) The retaining wall will be made to arrest the waste dump materials for consolidation.
- viii) The dimension of retaining wall around the proposed dump will be 165 M X 2 M X 3 M.
- ix) Garland drains will be paved around the dump to arrest possible wash off in rainy season.
- x) The dimension of garland drain around proposed dump will be 175 M X 3 M X 2 M.
- xi) Lemon grass/plant species will be paved in the dump slope, which has held the materials in its fibrous and spread over roots to protect wash off in the rainy seasons.

xii) **Selection of site for stacking of sub-grade materials:** There will be no generation of sub-grade in the proposed plan period. So stacking for sub-grade does not arise.

Life of the mine: The mineable reserve of china clay in the lease area is 125,54,846 MT or 12.55 million Ton. In the proposed plan period 15,08,665 MT will be exploited. After this plan period 110,46,181 MT china clay will be left. Keeping in view the production of china clay @3,02,931 MT per annum, life of the mine will be 36.46 years or say 37 years. So total life of the mine will be 42 years including this plan period. However, addition of more reserve through exploration will certainly increase the life of the mine.

Green Belt: The green belt including Safety Zone during the plan period as well as conceptual period is 26.6277 Ha.

The plantation after conceptual period will be as per below Table No. 5.

Table No. 5, Post Mining Plantation Planning

Sl. No	Use of land	Area in Hectares	Remarks
1	Excavated Pit for Mining	24.02	The exhausted quarries will be backfilled using the wastes of the dumps and the backfilled area will be rehabilitated through plantation.
2	Over burden dump	1.73	Plantation will be taken up after stabilization.
3	Mineral Storage	1.321	Plantation to be taken up
4	Top soil stack	0.313	Plantation to be taken up
5	Roads	3.827	Will remain as it is and avenue plantation will be taken up.
6	Infrastructure	0.196	Plantation to be taken up
7	Silica Stack Yard	1.2094	Plantation to be taken up
8	Safety Zone	26.6277	Plantation to be taken up
TOTAL		59.2441	
Area remain untouched		307.7308	

Further, the year wise programme of afforestation in the road side area is given below Table No. 6.

Table No. 6, Road Side Plantation Planning during Plan period

Year	Area (m ²)	Types of Sapling	Nos of Sapling	Distance between Sapling (m X m)
2017-18	5,000	<i>Anacardiumoccidentale</i>	800	2.5 X 2.5
2018-19	5,000	<i>Ziziphusjuzuba</i>	800	2.5 X 2.5
2019-20	5,000	<i>Anacardiumoccidentale</i>	800	2.5 X 2.5
2020-21	5,000	<i>Ziziphusjuzuba</i>	800	2.5 X 2.5
2021-22	5,000	<i>Anacardiumoccidentale</i>	800	2.5 X 2.5

TOTAL	25,000		4,000	-
--------------	---------------	--	--------------	----------

Mining Plan Details:

The Mining Plan was initially approved for production of Crude China Clay of 19,269 MTPA by the IBM, Calcutta vide letter no. CAL/MBJ/CC/MP-347 dated 01/05/1995 and was valid for the renewal lease period i.e. till 03/02/2015. During the said period the maximum production of crude china clay was 13963 MT in the year 1988-89 against scheduled production of 19,269 MTPA.

The modification to the said approved mining plan for production of Crude China Clay of 49,449.4 MTPA was re-approved on 08/07/2010 vide letter no. MPM/OTF.MECH/05-ORI/BHU/2010-11.

The scheme of mining was then approved on 09/07/2010 vide letter no. MS/OTF.MECH/11-ORI/BHU/2010-11 with detail planning for the period from 2010-11 to 2014-15.

At present the mining plan is being prepared and approved for production of Crude China Clay of 3,02,931 MTPA (Maximum in five year Plan Period) along with existing beneficiation plant on 28/03/2017 vide letter no. MXII-(b)-81/2015/2028/DM, Odisha under Rule 22 (I) of Odisha Minor Mineral Concession Rules 2016 to cover the extension lease period in accordance to the Mines and minerals (Development & Regulations) Amendment Act 2015 whereby, the leased period would be extended

9. Other Waste Generation, if any:

There is no Industrial Process Waste from this ML Area other than OB and non – clayey material from beneficiation plant.

No sewage sludge and other sludge as there is no STP or ETP existing/ proposed.

During post mining period there will be generation of some quantity of solid waste while decommissioning the temporary sheds & temporary office buildings.

10. Land Use (Forest/Agricultural/Waste):

The Kadadiha mining lease area over 367.058 ha. is non forest Fallow land. The lease area spared over in the villages Kadadiha No.26, Khandabandha No. 43, Kudarbisida No.45 and Rugudi No. 44, under Tehasil: Jashipur, in the District of Mayurbhanj, Odisha. According to the land schedule, the land use pattern is given in Table No. 7.

Table No. 7, Land Schedule

Name of the Villages	Area in Acres	Area in Ha.	Forest Land in Ha.	Non - Forest Land in Ha.
Kadadiha No.26	26.72	10.813	0.000	10.813
Khandabandha No. 43	352.70	142.733	0.000	142.733
Rugudi No. 44	524.77	212.367	0.000	212.367
Kudarbisida No.45	2.83	1.145	0.000	1.145
Grand Total	907.02	367.058	0.000	367.058

Out of these, an area of 36.9037 hectares has already been utilized for excavation, Overburden dump, Roads, Infrastructure & Safety Zone etc.

11. Details of past production since inception of mine authenticated by DMG

DMG, Govt. of Odisha could provide Past production since 1992-1993.

Details of Past production w.r.to letter no. 3426/Mines, dated 09/11/2018 issued by Mining Officer, Baripada Circle, Baripada are given below.

Production Details from 1992-1993 to 2017-2018

Year	Production of China Clay (MT)
1992-1993	4095.000
1993-1994	4280.000
1994-1995	3510.000
1995-1996	3900.000
1996-1997	3290.000
1997-1998	1485.000
1998-1999	1185.000
1999-2000	1760.000
2000 -2001	3530.000
2001 -2002	5825.000
2002-2003	3090.000
2003-2004	3655.000
2004-2005	3855.000
2005-2006	2430.000
2006-2007	4795.000
2007-2008	5261.000
2008-2009	4068.000
2009-2010	8865.000
2010-2011	15450.000
2011-2012	1343.000
2012-2013	0.000
2013-2014	0.000
2014-2015	0.000
2015-2016	0.000
2016-2017	0.000
2017-2018	0.000
2018-2019	0.000
2019-Till date	0.000

12. Applicability of General Condition & Status of SEIAA:

Applicability of General Condition:

1. Protected areas notified under the Wildlife (Protection) Act, 1772 : Nil, Not applicable
2. Critically Polluted Areas as identified by CPCB : Nil, Not applicable
3. Eco Sensitive Areas as notified under section 3 of the E (P) Act, 1986 : Nil, Not applicable
Inter –State Boundaries and Inter International Boundaries: Yes, Inter –State Boundary with Jharkhand State at 9.0 Kms in the WNW of Project Site.

13. Aravalli/Doon Valley/ Western Ghats/Eco-Sensitive area:

The project area does not fall under Aravalli / Doon Valley/ Western Ghats/Eco-Sensitive area.

14. Project Cost & Employment:

Estimated Project Cost: The **capital** cost of the project is Rs.154.551 Lacs. The capital cost covers the expenditure incurred towards Exploration, Mine development already done and proposed, cost involved towards land, building, infrastructure, plant and machineries, statutory dues etc.

Cost towards Environmental Control: The capital cost and recurring cost (per annum) for the environmental facilities is Rs. 34.00 lacs.

Employment: Total requirement of employment is 188 numbers. Out of them, 18 numbers are Management & Supervisory Personnel category and 170 numbers are Workers (Skilled/Semi-skilled/Un-skilled) categories.

Observations and recommendations of 12th EAC meeting held on 28th-29th August 2018:

Proponent requested to defer the proposal.

Observations and recommendations of 32nd EAC meeting held on 22nd -23rd April, 2020

Project Proponent did not attend the meeting.

Observations and recommendations of 33rd EAC meeting (present meeting) held on 18th -19th May, 2020

Proposal was not discussed on technical aspect by the EAC as PP has not submitted the valid mining lease documents. EAC therefore **deferred** the project for submission of following:

1. Valid mine lease document/LOI.
2. Revised affidavit as per the Ministry's OM dated 30.05.2018
3. Hard copies of all the documents duly signed be submitted to the Ministry
4. Past certified production details including silica sand and calcined clay.
5. Details of plantation including spacing, location, period may be mentioned.

33.4.4 Manufacturing of Polystyrene and Expandable polystyrene total capacity (from 415 TPD to 655 TPD) by M/s. LG Polymers India Pvt.Ltd. located at Village RR Venkatapuram Village, Pendurti Mandal, Visakhapatnam District, Andhra Pradesh–Terms of Reference [F. No. J-11011/113/2020-IA-II(I)]

The Expert Appraisal Committee (EAC) discussed the proposal in terms of the provisions of Ministry's Notification 14th March 2017 for manufacturing of Polystyrene and Expandable polystyrene (total capacity from 415 TPD to 655 TPD) by M/S LG Polymers India Pvt. Ltd, Visakhapatnam, AP. The committee noted that the instant agenda was for expansion of Polystyrene and Expandable Polystyrene from 415 TPD to 655 TPD. However, EAC in view of the recent incident, decided to appraise the project for its existing capacity of 415 TPD only, operating without obtaining prior Environmental Clearance (EC) as per the EIA Notification 2006 and as amended thereof, since 2008. Further, the Committee also noted that the PP had carried out change in product mix in the existing facility which also requires prior EC as per EIA Notification 2006.

The committee also noted that initially the project proponent submitted the proposal (ToR application) to SEIAA, AP on 12.04.2018 considering it as Category B Project under Ministry's Notification S.O. 804 (E) dated 14.03.2017. However, SEIAA, AP transferred the proposal to MoEF&CC vide letter dated 07.01.2020, considering it as category A project and same was received in the Ministry on 17.03.2020.

The committee during the deliberations also considered the accident due to leakage of styrene gas that occurred on 7th May 2020 at 2.40 AM due to which 12 people reported to have died and about 580 people were admitted in various hospitals.

Further, the committee also have taken into cognizance the suo-moto action initiated by the Honourable NGT, the cases being heard in the Honourable High Court of AP, NHRC and the committees constituted by the various authorities to investigate into the accident and post-accident scenario.

Recommendations of EAC

The committee after detailed deliberations and thorough examination of the proposal apart from considering the above facts, recommends the instant proposal to be **deferred** till the outcome of Hon'ble NGT, Hon'ble High Court of AP and reports of Committees constituted by NGT, MOEFCC, Gov. of AP, NDRF, CPCB, NDMA and NEERI is made available to the committee for facilitating proper appraisal of the project which will be restricted to existing production capacity (415 TPD) as mentioned above being operated without Prior EC.

33.4.5 Discussion on any other item with permission of the Chair.

33.4.5.1 Expansion of Hospital Complex "Pushpawati Singhanian Hospital & Research Institute" at Press Enclave Marg, Sheikh Sarai, Phase-II, New Delhi by M/s Pushpawati Singhanian Hospital & Research Institute - Environmental Clearance [IA/DL/MIS/85531/2018 dated 20.12.2018] [F. No. 23-134/2018-IA.III (V)]

EAC observed that earlier the proposal was considered in the 27th meeting held during 31.10.2019 - 01.11.2019. EAC in the 27th meeting recommended the proposal for grant of Environmental Clearance subject to compliance of specific as well as standard environmental conditions applicable to the project. EAC in the said meeting recommended for an amount of Rs. 10,791,000/- towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years towards the activities proposed under the environmental components.

EAC observed that above proposal is referred back to violation sector by the Infra sector for reconsideration on the number of the activities proposed under remediation as well as natural and community resource augmentation plan. Accordingly, PP was advised to submit the limited number of activities under remediation as well as natural and community resource augmentation plan but focussed

towards mitigation measures with a budgetary provision as recommended by the EAC in the 27th meeting i.e Rs. 10, 791,000/ . Project Proponent submitted the following activities as tabulated below:

Table- Remediation Plan, Natural Resource and Community Resource Augmentation Plan along with budgetary Provision:

Component	Activity Proposed	Subactivities	Further Remarks	Total Cost Rs. (Lakhs)	Year I	Year II	Year III
Proposed Remediation Plan	1. CNG Vehicle	Purchase and Customisation as per requirements	Community Health Promotions, Patient and staff escort to nearby villages and rural areas, would also be used as public transport in emergency hours or on need basis	30	10	10	10
		Medicines and Medical Devices	For Health Camps , medicines for poor patients	30	10	10	10
Proposed Natural Resource Augmentation Activities	2. Solar Panel Lights	Installation in approach road	Will help common public to commute safely to Press Enclave Marg	10		5	5
Total				70	20	25	25
Proposed Community Resource Augmentation Activities	3. Maintenance of some portion of bare land/Park just opposite to the hospital	Plantation, Watering, Manuring, OWC, Swings for children	Currently it is not being maintained by any of the governing bodies. We will develop it to a green belt	37.91	12	10	15.91
Total amount (in lakhs)				107.91	32	35	40.91

EAC deliberated on the revised activities proposed by the PP. EAC observed that above activities are focussed and covers the health, ecology and social aspect with a budgetary provision as recommended by the EAC in the 27th meeting, after duly assessing the damages caused by the project activities undertaken without proper environmental management plan in place. EAC after detailed deliberation **recommended** the revised activities as tabulated above against the activities tabulated under Specific Condition No. 01, Para no. 27.3.4.5 of the 27th minutes of meeting.

33.4.5.2 Expansion of Leela Hotel at Diplomatic Enclave, Africa Avenue, Netaji Nagar, Chanakyapuri, New Delhi by M/s Hotel Leela Venture Ltd. - reg Environmental Clearance [IA/DL/MIS/91171/2017 dated 11.01.2019] [F. No. 23-96/2018-IA-III(V)]

EAC observed that earlier the proposal was considered in the 29th meeting held during 30th - 31st December, 2019. EAC in the 29th meeting recommended the proposal for grant of Environmental Clearance subject to compliance of specific as well as standard environmental conditions applicable to the project. EAC in the said meeting recommended for an amount of Rs. 7, 08, 18,000/- towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years towards the activities proposed under the environmental components.

EAC observed that above proposal is referred back to violation sector by the Infra sector for reconsideration on the number of the activities proposed under remediation as well as natural and community resource augmentation plan.

Accordingly, PP was advised to submit the limited number of activities under remediation as well as natural and community resource augmentation plan, but focussed towards mitigation measures with a budgetary provision as recommended by the EAC in the 29th meeting i.e Rs.7, 08, 18,000/-. Project Proponent submitted the following activities as tabulated below:

Table 1 - Remediation Plan along with budgetary Provision:

S. No.	Component Remediation	Remediation Proposed	Description	Locations	Rate	Qty.	Total Cost (Rs.)	Year I	Year II	Year III
1	Air Environment	Distribution and maintenance of Air purifier	Supply of air purifier @ INR 60,000/- each and Annual Maintenance of Air Purifier Systems - 3 year @ 18000/year = 54000/- for 3 years	1. Safdarjang Hospital, Ansari Nagar East, near AIIMS Metro Station, Delhi 2. LokNayak Jai Prakash Narayan Hospital, Jawaharlal Nehru Marg, Maulana Azad Medical College Campus, Delhi Gate, Delhi 3. AIIMS, Ansari Nagar, Delhi	114,000	211	24,054,000	8,018,000	8,018,000	8,018,000
Total							24,054,000	8,018,000	8,018,000	8,018,000
2	Water Environment	Construction and annual maintenance of of Rain Water Harvesting in nearby village	Construction of RWH-41 Nos @ 3,00,000/per RWH (including raw material, labour, construction and maintenance for 3 years at INR 15000/- per year	1. Sarojani Nagar Rural . 2. RK Puram Vill. 3. Vasant ViharVill 4. HauzKhasVill. 5. Pilanji village 6. Mohammedpur Village 7. Netaji Nagar	315,000	41	12,915,000	4,300,000	4,300,000	4,315,000
Total (Rs.)							12,915,000	4,300,000	4,300,000	4,315,000
Grand Total (Rs.)							36,969,000	12,318,000	12,318,000	12,333,000

Table 2- Natural and Community Resource Augmentation Plan with budgetary provision:

S.no	Component	Activity Proposed	Description	Locations	Rate	Quantity/No.	Total Cost	Year I	Year II	Year III
							(Rs.)	(Rs.)	(Rs.)	(Rs.)
1	Natural Resource Augmentation Plan	Providing Solar Lighting in the village and School	3 KW solar Panel of 221 Nos. installation in nearby locations	1. Sarojani Nagar 2. RK Puram 3. Vasant Vihar 4. HauzKhas 5. Pijanji village 6. Mohammedpur Village 7. Netaji Nagar 8. Chanakyapuri 9. MotiBhag	110,181.00	221	24,349,000	8,000,000	8,000,000	8,349,000

2	Community Resource Augmentation Plan	Development of Computer Skill Centre Equipped with 50 Nos. of Computer	Computer Skill Development Centre Equipped with Following :- 1. Computer 50 Nos. 2. Construction of Lab 3. Installation of AC 4. Installation of DG sets for Power Back-up	1. Sarojani Nagar 2. RK Puram Vill 3. Pijanji village 4. Netaji Nagar 5. HauzKhasVill 6. Mohammedpur Village 7. Chanakyapuri 8. SangamVihar 9. Tuglakakabad 10. Ashram	950,000	10	9,500,000	3,000,000	3,000,000	3,500,000
Sub- Total							9,500,000	3,000,000	3,000,000	3,500,000
Total							33,850,000	11,000,000	11,000,000	11,850,000

Summary

S. No.	Item	Total Cost INR	Year I	Year II	Year III
1	Cost of Remediation Plan Based On Damage Assessment Due To Violation	36,969,000	12,318,000	12,318,000	12,333,000
2	Natural Resource Augmentation Plan	24,349,000	8,000,000	8,000,000	8,349,000
3	Community Resources Augmentation Plan	9,500,000	3,000,000	3,000,000	3,500,000
	Total cost in INR	70,818,000	23,318,000	23,318,000	24,182,000

EAC deliberated on the revised activities proposed by the PP. EAC observed that above activities are focussed and covers the air, water and social aspect with a budgetary provision as recommended by the EAC in the 29th meeting, after duly assessing the damages caused by the project activities undertaken without proper environmental management plan in place. EAC after detailed deliberation **recommended** the revised activities as tabulated above, against the activities tabulated under Specific Condition No. i, Para no. 29.3.1 of the 29th minutes of meeting.

LIST OF PARTICIPANTS IN 33RD MEETING OF EAC FOR THE PROPOSAL INVOLVING VIOLATION OF EIA NOTIFICATION, 2006 HELD ON 18TH – 19TH MAY, 2020 THROUGH VIDEO CONFERENCING

Sl. No.	Name	Designation	Attendance	
			18.05.2020	19.05.2020
1.	Dr. Satish R Wate	Chairman	P	P
2.	Dr. G.V. Subrahmanyam	Member	P	P
3.	Dr. A.L. Ramanathan	Member	P	P
4.	Dr. M.V. Ramana Murthy	Member	A	A
5.	Shri K Gowarappan	Member	P	P
6.	Dr. Dilip S. Ramteke	Member	P	P
7.	Dr. Poonam Kumria	Member	P	P
8.	Dr. Bharat Jain	Member	P	P
9.	Dr. Subrata Maity	Member	P	P
10.	Shri Ashok Agrawal	Member	P	P
11.	Shri Raghu Kumar Kodali	Scientist 'F' & Member Secretary	P	P