

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 20<sup>TH</sup> OCTOBER 2023**

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The SEAC met on 20<sup>th</sup> October 2023 at 10:30 AM in the Conference Hall of State Pollution Control Board, Odisha Bhubaneswar under the Chairmanship of Sri Sashi Paul. The following members were present in the meeting.

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|------------------------------|---|-----------------------|
| 1. Sri Sashi Paul            | - | Chairman (through VC) |
| 2. Dr. K. Murugesan          | - | Member Secretary      |
| 3. Dr. Rabi Narayan Patra    | - | Member                |
| 4. Dr. Chittaranjan Panda    | - | Member                |
| 5. Prof. (Dr.) H.B. Sahu     | - | Member (through VC)   |
| 6. Prof. (Dr.) Abanti Sahoo  | - | Member (through VC)   |
| 7. Er. Fakir Mohan Panigrahi | - | Member                |
| 8. Prof. (Dr.) B.K. Satpathy | - | Member                |
| 9. Er. Kumuda Ranjan Acharya | - | Member                |
| 10. Shri Jayant Kumar Das    | - | Member (through VC)   |
| 11. Dr. Ashok Kumar Sahu     | - | Member (through VC)   |
| 12. Dr. K. C. S Panigrahi    | - | Member (through VC)   |

Draft proceedings of the meeting was finalized by the members through e-mail and final proceedings of the meeting was confirmed by the members through e-mail. The agenda-wise proceedings and recommendations of the committee are detailed below.

**ITEM NO. 01**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. SUBHLABH CEMENTS PRIVATE LIMITED FOR REGULARIZATION OF THE EXISTING PROJECT OF SUBHLABH CEMENT PVT. LTD. HAVING CAPACITY OF 90,000 MT/ANNUM, (TMT BAR, ANGLE, CHANNEL, FLATS, SQUARE BAR AND ROUNDS, MS PLATE, MS STRIPS, MS PIPES, MS SHEETS ETC.) OVER AN AREA 5 ACRES LOCATED AT MANDIAKUDAR, TEHSIL-RAJGANGPUR, DIST.-SUNDARGARH OF SRI SANJOJ KUMAR AGARWAL - TOR**

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference for environmental clearance of M/s. Subhlabh Cements Private Limited for Regularization of the existing project of Subhlabh Cement Pvt. Ltd. having capacity of 90,000 MT/Annum, (TMT Bar, Angle, Channel, Flats, Square Bar and Rounds, MS Plate, MS Strips, MS Pipes, MS Sheets etc.) over an area 5 Acres located at Mandiakudar, Tehsil-Rajgangpur, Dist.- Sundargarh of Sri Sanoj Kumar Agarwal.
3. **Category:** This is a Category – B project which falls under schedule 3(a), Metallurgical Industries (ferrous & nonferrous) as per the EIA Notification 2006 and amendments thereafter.
4. **Location and Connectivity:** M/s Subhlabh Cement Pvt. Ltd is located at Khata No.- 124/285, Plot No.-1212/1740, Village-Mandiakudar, Tehsil-Rajgangpur, Dist.-Sundargarh, Odisha. The

Proceedings of the SEAC meeting held on 20.10.2023

*J Nayak*  
Environmental Scientist, SEAC

coordinates of the plant area are 22°13'45.37"N to 22°13'48.95"N & 84°41'36.41"E to 84°41'45.26"E. The nearest railway station is the Kalunga Railway Station (4.0 KM, ESE) from the site. The nearest airport is at Rourkela Airport (12 Km, E) from the site. The site is approx. 12 Km away from nearest town Rajgangpur Town. Sankh River is flowing at a distance of 0.85 Km North from the project site. The State Highway (SH-10) runs at a distance 0.15 Km to the project site toward south direction.

5. **Topography:** The topography of the plant area is flat in and the slope is downward towards the east direction. The average elevation of site is 192 m AMSL. Range between: 192 m AMSL to 194 m AMSL. The perennial river Sankh forms the main drainage system of the vicinity.
6. **Seismicity:** The project is under very feeble to Zone – III (moderate damage risk zone) [as per IS 1893 (Part-I): 2002]

7. **Project details:**

Sr. No	Name of product	Existing capacity (Ton/Annum)	After regularization Total Capacity (Ton/Annum)
1	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	36,000	36,000
2	MS Plate, MS Trips, MS Pipe, and MS Sheet	54,000	54,000
	<b>Total capacity</b>	<b>90,000</b>	<b>90,000</b>

Sr No	Particulars	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Pulverizer No.1	Closed system	Bag Filter

8. **The land utilization plan:** In total 5 Acres (20234.28 Sqm.) of land will be adequate to accommodate the entire planned facilities. The land utilization plan is given below:

Land Use	Area (Sqm)	Expansion as per CTO dated 03.06.2022	Area (Sqm)	Percentage (%)
	Existing		After Regularization	
TMT MILL - 15 TPH & MACHINE SHOP	2520	-	2520	12.454
MS HOT STRIP MILL - 15 TPH	-	2000	2000	9.884
MS TUBE MILL -15 TPH	-	1800	1800	8.895
ANCILARY UNITS	200	200	400	1.976
WATER TREATMENT PLANT	-	350	350	1.73
GREENBELT	6880	-	6880	34
INTERNAL ROAD	2500	1150	3650	18

WASTE HANDLING AREA	4	-	4	0.02
PLASTIC WASTE STORAGE SHED	4	-	4	0.02
OPEN AREA	8126.28	-	2626.28	12.98
Total Land Area	20234.28		20234.28	100

9. Production and Waste Generation details:

Sr. No.	INPUT		OUTPUT	
		TPA		TPA
1.	MS Billets/ Ingot	96000	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	36000
2.			MS Plate, MS Trips, MS Pipe, and MS Sheet	54000
3.			End Cutting /Mill scale	6000
<b>Total</b>		<b>96000</b>	<b>Total</b>	<b>96000</b>

10. Manufacturing process: Rolling Mill is being used for Production of Rolled products (MS Plate, MS Trips, MS Pipe, and MS Sheet, TMT Bar, Angle, Channel, Flats, Square Bar and Round). Rolling is a process used to shape metal into a thin long layer by passing it through a gap of two rollers rotating in different directions. M.S. Ingots from the yard is taken to reheating furnace where pulverized coal is used as fuel for heating and then processed to roughing mill than it passes to intermediate mill and finishing mill respectively. From there it will send it to QTB system for pinch roll & dividing shear and then to cutting with cold shear and bundle it for final dispatch.

11. Waste Generation and Management:

Sr. No.	Type/Name of waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/Annum)		Management of HW
				Existing	Total	
<b>INDUSTRIAL SOLID WASTE</b>						
1	End Cutting /Mill scale	End Cutting	-	6000	6000	End cutting are being given to nearby IF Unit
4	Municipal Solid Waste (Kg/ day) @0.20kg/person	-	-	15	15	It is being Send to Municipal corporation, Rourkela

Sr. No.	Type/Name of waste	Specific Source of	Category and Schedule as	Quantity (MT/Annum)	Management of HW
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		generation (Name of the Activity, Product etc.)	per HW Rules.	Existing	Total	
<b>HAZARDOUS WASTE</b>						
1	Used oil	Machinery	5.1	0.5	0.5	Collection, storage, Reuse within premises OR transportation, disposal by selling to registered recycler
2	Dust from Bag filter	Pulverizer	35.1	36	36	Collection, storage and sold to brick manufacturers

12. **Water requirement:** Total one-time water requirement is 43.5 KLD. Total daily fresh water requirement will be 30 KLD. Recycled water 13.5 KLD. The source of water is Ground water.
13. **Wastewater management:** The domestic wastewater from toilets, washrooms and canteen will be treated in STP and treated water will be used for greenbelt development. Waste water from the rolling mills is likely to contain scale and oil & grease. This waste water will be treated in treatment system consists of settling tank fitted with an oil & grease skimmer. The clarified water is being re-used in the plant. Oil & Grease is being collected in drums and sold to Authorized recycler for recycling.
14. **Power Requirement:** Total power requirement for proposed project is 3500 KVA and it is being sourced from State Electricity Board.
15. **Green belt:** In the existing project 6880 Sqm of land i.e., 34% of total land plant area of 20234.28 Sqm has been provided a natural barrier for attenuation of noise and air pollution
16. **Baseline study details:** Baseline data to be collected during post monsoon from October 2023 to December 2023
17. **Manpower:** The existing employment is around 77 Persons and contractual labour-140 Nos.
18. **Project Cost:** The expected cost of the project is Rs.985 Lakhs. EMP cost includes a capital cost of 68 Lakhs and a recurring cost of 20 Lakhs/Annum.
19. **Environment Consultant:** The Environment consultant M/s Parivesh Environmental Engineering Services, along with the proponent made a presentation on the proposal before the Committee.

Considering the information furnished and the presentation made by the consultant M/s Parivesh Environmental Engineering Services, along with the project proponent, the SEAC recommended the following:

**A. The proponent may be asked to submit the following for further processing of EC application:**

- i) Copy of company registration certificate, Consent to Establish and Consent to Operate order of existing and expansion project.
- ii) Details of Air Pollution Control measures provided in the existing reheating furnaces.
- iii) Comparison statement of present plant and machineries with its capacity vs proposed plant and machineries with capacity.
- iv) Justification why this will be not considered as violation case.

**B. Following specific ToRs may be prescribed while issue of Terms of References.**

- i) Revised layout map indicating location details, name of the species to be planted and to carry out the plantation in all the sides of the project site as the project proponent has submitted layout of greenbelt showing the plantation area only on two sides of the site
- ii) Copy of permission obtained from CGWA for drawl of ground water.
- iii) Detailed note on generation and quantity of disposal of end cuttings along with specific disposal method of end cuttings and agreements made with the end users thereof supported with documentation.
- iv) Include provision of Rainwater harvesting Pits.
- v) Include provision for installation of STP for treatment of domestic effluent and submit the detailed specification.
- vi) Details of ash management, quantity of coal burnt and provision of dust control system for handling pulverized coal and coal grinding unit.
- vii) Details of ash management such as quantity sold to dealers and disposal methods.
- viii) Detailed note on coal stock yard and coal handling management.
- ix) Details of storage of used oil and fire safety/ management.
- x) Explore possibility to include provision for use of Solar power and cleaner fuel (CNG)/producer gas instead of coal.
- xi) Include the provision of cyclone and heat exchanger to reduce the temperature of flue gas before the Bag filter.

**C. The proposed site shall be visited by local members of SEAC along with officer of Regional office of State Pollution Control Board to verify the followings:**

- a) Environmental settings of the project site.
- b) Extent of construction activity and operational status of all the units.
- c) Road connectivity to the project site.

- d) Drainage network at the site.
- e) Greenbelt development in the existing plant.
- f) Solid waste management practice of the existing plant.
- g) Vacant land available.
- h) Any other issues including local issues.

**ITEM NO. 02**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. M G MOHANTY (PATABEDA IRON AND MANGANESE MINES) FOR PATABEDA IRON AND MANGANESE MINES FOR EXPANSION OF PRODUCTION OF IRON ORE FROM 180000 TPA TO 572305 TPA ALONG WITH CRUSHING AND SCREENING PLANTS OVER AN AREA OF 19.425 HA LOCATED AT VILLAGE PATABEDA UNDER KOIRA TAHSIL IN SUNDARGARH DISTRICT OF SRI RAJIB LOCHAN MOHANTY – EC**

The project proponent was absent during the meeting and has requested via E-mail to defer the proposal to the next SEAC meeting.

**ITEM NO. 03**

**PROPOSAL OF AMENDMENT ENVIRONMENTAL CLEARANCE OF M/S BALASORE ALLOYS LTD, KALIAPANI CHROMITE MINES FOR “PROPOSAL OF COMMON BOUNDARY MINING AND COMMON BOUNDARY DUMPING WITH JINDAL CHROMITE MINES OF M/S JINDAL STAINLESS LIMITED IN VILLAGE KALIAPANI, TEHSIL SUKINDA, DISTRICT JAJPUR, ODISHA, IN ADDITION TO THE EXISTING ACTIVITIES VIZ. OPENCAST & UNDERGROUND MINING, MINING OF BLOCKED PILLAR IN OPEN PIT MINES & COMMON BOUNDARY DUMPING WITH M/S IMFA PRODUCING 0.6 MTPA OF CHROME ORE BY KALIAPANI CHROMITE MINES(ML AREA 64.463 HA) AT KALIAPANI DIST JAJPUR OF OF SRI A NAGENDRA KUMAR – MOD EC**

1. This proposal is for Amendment Environmental Clearance of M/s Balasore Alloys Ltd, Kaliapani Chromite Mines for “Proposal of Common Boundary Mining and Common Boundary Dumping with Jindal Chromite Mines of M/s Jindal Stainless Limited in Village Kaliapani, Tehsil Sukinda, District Jajpur, Odisha, in addition to the existing activities viz. Opencast & Underground mining, mining of blocked pillar in open pit mines & Common Boundary Dumping with M/s IMFA producing 0.6 MTPA of Chrome ore by Kaliapani Chromite Mines(ML area 64.463 ha) at Kaliapani Dist Jajpur of of Sri A Nagendra Kumar.
2. **Category:**As per the Environmental Impact Assessment (EIA) Notification dated 14<sup>th</sup> September 2006, the proposed enhancement of chromite ore production by mining falls under ‘Category B’ of project type 1(a)-Mining of Minerals.
3. The Govt. of Odisha has issued Terms & Conditions that would govern the grant of mining lease of 100.063 Ha vide their letter no VI-SM-108/99-3927/SM dated 24/5/1999. Further Govt. of Odisha has split up the total area of 100.063 Ha into two leases viz 64.463 Ha (Non-Forest area), 35.6 Ha (forest area) vide letter No 1864/SM BBSR Dt 16/02/2000. The Mining Lease Deed of 64.463 Ha was executed vide Lease Deed dated 17.07.2000 . Lease Deed was further modified on 01.01.2008 for change of name from Ispat Alloys Ltd. to Balasore Alloys Ltd.

4. **Terms of Reference details** : ToR was issued by MoEF & CC Vide No . J-11015/139/2012-IA-II (M) dated 11<sup>th</sup> October, 2012 for an annual production capacity of 0.6 MTPA of Chrome ore by opencast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method
5. Environmental Clearance for the project has been received from Ministry of Environment, Forests & Climate Change (MoEF&CC), Govt. of India, New Delhi with an annual production capacity of 0.6 MTPA of Chrome ore by opencast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method vide Letter No J-11015/139/2012-IA.II (M) Dated 22<sup>nd</sup> August 2014.
6. **Public hearing details:** As per the EIA Notification dated 14th September, 2006, Public hearing for this project was conducted on 4th April, 2013 at 11:00 AM in the Open place over Khata no. 55, Plot no. 888 of Kaliapani village in front of main gate of M/s Blasore Alloys Ltd. in accordance with the procedure to obtain the Environmental Clearance.
7. **List of Statutory clearances obtained earlier:**
- Environmental Clearance for the project has been received from Ministry of Environment, Forests & Climate Change (MoEF&CC), Govt. of India, New Delhi with an annual production capacity of 0.6MTPA of Chrome ore by open cast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method vide Letter No J-11015/139/2012-IA.II (M) Dated 22<sup>nd</sup> August 2014 .
  - Consent to Establish(CTE) has been obtained for production 0.06 MTPA chrome ore with open cast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method vide No 16196/IND-II-NOC-5723 date 08/10/2017
  - Consent to Operate (CTO) was obtained for production of 0.6 MTPA Chrome Ore form State Pollution Control Board, Odisha vide No 3749/IND-I-CON-2576 date 28.03.2018 valid upto 31.3.2023.
  - Mine operation is under suspension since 22.6.2022
  - Scheme of mining has been modified and approved by Indian Bureau of Mines, Govt. of India vide letter No BBS/JJR/CR/2169/2022-23 dated 03.06.2022 .
  - Stage –I Forest Clearance was accorded by MOEF & CC for this mining project vide No F.No.8-14/2016-FC dated 18<sup>th</sup> November,2016 and approval of Stage-II order is under consideration with MoEF&CC.
8. **Forest clearance status** : The ML area is of 64.463 ha is of Non- Forest Land Kisam as per lease deed. However, in view of MoEF guidelines, vide No. 8-78/1996-FC(pt) dated 10.3.2015 and subsequent Circular dated 30.3.2015 issued by State Govt. certified Land Schedule vide letter No. 2899, dated 30.10.2015 out of 64.463 ha ML area, 64.119 ha was classified as Sal Jungle i.e., Forest Kissam as on 25.10.1980 and balance 0.344 ha as road(Non-Forest). Stage-I Forest Clearance was accorded by MOEF & CC for this mining project vide No F.No.8-14/2016-FC dated 18<sup>th</sup> November,2016 and approval of Stage-II order is under consideration with MoEF&CC.

9. Scheme of mining has been modified and approved by Indian Bureau of Mines, Govt. of India vide letter No BBS/JJR/CR/2169/2022-23 dated 03.06.2022.
10. **Project details:** the proponent has applied for amendment of existing environmental clearance vide no Vide No J-11015/139/2012-IA.II (M) Dtd.22.8.2014 for production of 0.6 MTPA for the proposal of common boundary dumping and mining with Jindal Chromite Mines of M/s Jindal Stainless Ltd in addition to existing opencast, underground, Boundary pillar Mining and Common Boundary Mining and Dumping with M/s IMFA.
11. **Location and connectivity:** the propose project site is located at village - Kaliapani, Tehsil – Sukinda of district Jajpur in the state of Odisha bearing topo sheet no 73 G/12, G/16, H/9, H/13 bounded by Latitude N 21°02'9.82" to N 21°01'33.05" and Longitude : E 85°45'29.24" to E 85°46'28.24". Nearest SH-20 (25 km in ESE direction); NH-200 (23 km in South direction); NH-215 (38 km in East direction); and NH-5 (62 km in SE direction). Nearest railway station is Jajpur-Keonjhar Road (52 km, SE). Nearest airport is Bhubaneshwar Airport (150 Km, South). There are totally 13 operating chromite mines in Sukinda valley. In addition to the existing BAL mine, Eleven opencast mines and Two underground mine (FACOR-Kathapal & Mahagiri, IMFA) in Sukinda valley. Some of the mines has been operating since 1960/1980.
12. **Method of Mining:** Opencast and underground mining method along with boundary pillar Mining, common Boundary mining with M/s IMFA an M/S JSL shall be carried out by engaging Tripper, Dumper, Loader, Excavator, Road Header, Belt Conveyor etc. as per approved Mining Plan . Transportation shall be carried through road.

13. **(Dump) management:**

SL. No.	Dump ID	Dump status	Type of Dump	Total Dump Quantity (MT)	Area covered by Dump (Ha)	Height (M)
1	Dump -1	Active	OB	4418374	13.500	79
2	Dump-2	Active	OB	1045259	5.945	37
3	Dump - 3	Active	OB	5429463	14.880	65
<b>TOTAL</b>				<b>10893096</b>	<b>34.325</b>	

14. **Waste generation and management:**

Sl. No	Waste details	Management
1	Overburden	Dumped at earmarked Place with arrangement of Garland drain, Toe wall, plantation and coir matting
2	COBP tailing	Collected through Dumper and Stacked at earmark place with adequate measure
3	ETP Sludge	Disposed to Common TSDF at Sukinda
4	Used Oil	Disposed to SPCB Authorized vendor
5	Oil Contaminated Waste	Disposed to SPCB Authorized vendor
6	Waste Water from mine /domestic waste water	Treated in existing ETP and STP respectively. Treated effluent is partly used and rest is discharged to outside.



15. **Water requirement:** Water Requirement of Mines will be 360 KLD, which will be sourced from One bore well and Mine Dewater.
16. **ETP/STP details:** Effluent treatment Plant of 750 KLH capacity has been installed for treatment of Mine water and STP of 50 KLD capacity installed for Treatment of Domestic waste water.
17. **Power requirement:** Power requirement for the proposed project is 1300 KVA (1040 KW) LT 415 V AC and the unit has 6.0 KW solar system in mines.
18. **Greenbelt:** 80540 nos. of saplings planted at dump slope, roadside inside ML area since 2010-11. Green belt has been developed over 0.17 ha of safety zone area.
19. **Rain Water Harvesting Details** – Two nos. of Roof Top rain water harvesting structure has been planned and one is being completed and another structure is ongoing. It is calculated to recharge at least 5,000 m<sup>3</sup>/year of water to be recharged to the underlain fractured aquifer through rooftop rainwater harvesting structure. Thus, the total quantum of annual recharge is expected to be around 46,000 m<sup>3</sup>/annum
20. **Project cost:** Estimated cost of the proposed project is 529 Crore. EMP Capital cost is 500.26 Lakh and Recurring Cost is 580.00 Lakh. CSR Cost is Rs 80 Lakh/Annum as proposed.
21. **Environment Consultant:** M/s Balasore Alloys Ltd. made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the M/s Balasore Alloys Ltd., the SEAC decided to take decision on the proposal after receipt of the following from the project proponent :

- i) Specific permission to be obtained from MoEF&CC, Govt. of India for modification in the conditions mentioned in the EC and also to carry out mining activity in the safety zone.
- ii) Copy of Environmental Clearance wherein it has been indicated that the mine has common boundary with M/s. Indian Metals and Ferro Alloys Ltd. (IMFA)
- iii) Approval letter from DGMS regarding mining in the safety zone as well as at the common boundary with M/s. Jindal Stainless Ltd to avoid collapse of the adjacent mining benches.
- iv) Details of greenbelt development and proposed plan for the plantation programme.
- v) Copy of earlier EIA/EMP report submitted during grant of Environmental Clearance wherein it has been allowed to share common boundary for dumping of Over Burden.
- vi) Submit permission copy from MoEF&CC to carry out mining with M/s. Indian Metals and Ferro Alloys Ltd. (IMFA)
- vii) Clarify that proposed mining activity will not be carried out over any existing earmarked OB Dumps area.
- viii) Copies of all the statutory clearances obtained.
- ix) Clarify that there should be no dump along the mining area.
- x) Copy of analysis report of Hexavalent chromium levels in the ground water samples collected from within and outside the ML area.

**ITEM NO. 04**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF RAIKA IRON & MANGANESE ORE MINES OF SHRI SHIV DUTTA SHARMA OVER AN AREA OF 26.243 HA AT VILLAGE RAIKA, TAHASIL-BARBIL, DISTRICT-KEONJHAR OF SRI SHAKTI DASH - VIOLATION ToR.**

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference for Environmental Clearance of Raika Iron & Manganese Ore Mines of Shri Shiv Dutta Sharma over an area of 26.243 Ha at village Raika, Tahasil-Barbil, Dist-Keonjhar of Sri Shakti Dash.
3. **Category:** This project falls under Category "B" or Schedule 1(a): Mining of Mineral as per EIA Notification dated 14th Sept, 2006 and its amendments.
4. **TOR details:** Terms of Reference was issued by SEIAA, Odisha vide letter no:- letter No. 501/SEAC214 dated 19.07.2011 for production of iron ore 1.00 lakhs tons per annum and Manganese Ore 1000 tons per annum.
5. **Public hearing details:** The Public hearing was conducted successfully on 25.04.2012.
6. Final EIA/EMP with public hearing details submitted to SEIAA, Odisha vide letter dtd. 13.06.2012 towards grant of Environmental Clearance.
7. The mine was non-operational after 2009-10 as State Govt. of Odisha declared the lease as lapsed vide proceeding no. 7857/SM dated 20.08.2015 w.e.f. 30.09.2011 due to excessive of Iron & Manganese mining (as accessed by CEC) beyond permissive quantity and without obtaining prior environmental clearance during the year 2000-01 to 2009-10.
8. Further, as per the direction of Hon'ble Supreme Court of India and Govt. of Odisha the said mines was revised under the Rule 20 (6) of MC Rules, 2016 vide its proceeding dated 17.11.2022.
9. In pursuance of the Hon'ble Supreme Court order dated 02.08.2017 in WP(C) no. 114/2014, Director of Mines, Govt. of Odisha vide its letter dated 17.05.2022 raised the "Feasibility Report for Raika Iron and Manganese Ore Mines of S.D. Sharma over area 26.243 Ha, Village – Raika, Barbil, Dist-Keonjhar, Odisha. According to it, the demand for production of excess Iron & Manganese Ore beyond permissive quantity and without obtaining environmental clearance during the year 2000-01 to 2009-10 (as accessed by CEC) amounts to ₹4,37,99,592/- along with 12% interest. Accordingly, the project proponent deposited the demand amount in this regard i.e., ₹4,37,99,592/- along with 12% interest on dated 18.05.2022. Additionally, as suggested by Govt. of Odisha the proponent also paid another 12% interest amount of Rs 1,26,66,079/- on dated 20.10.2022.
10. **List of Statutory Clearances obtained earlier -**
  - a) The mining lease of Raika Iron & Manganese Ore of Shri S.D. Sharma over an extent area of 26.243 Ha at village Raika under Champua sub-division of Keonjhar district granted and executed on 01.11.1979. As per Section 8A (3) of the MMDR Act 2015, the lease is deemed to have been extended up to a period ending on the 31.10.2029.

- b) Approved Mining Plan up to 31.03.2028 vide No. RMP 6295/30ORI361003 dated 05.07.2023 and cleared all the due in pursuance of the Supreme Court order dated 02.08.2017 in WP(C) no. 114/2014.
- c) After revival of lease, the forest diversion proposal has been initiated on dated 12.09.2023 and submitted over an area of 17.032 Ha vide proposal no. FP/OR/MIN/QRY/444094/2023 on 09.10.2023 which is under process.
- d) Lessee has already paid the NPV of amount ₹1,06,77,330/- on dated 12.07.2010 and given an under taking for payment of differential NPV.

11. **Location and connectivity:** Raika Iron & Manganese Ore Mines is coming under village Raika under Champua sub-division of Keonjhar District. The geo-coordinates of project site is Latitude: 22° 03' 57.419" N - 22° 04'23.301" N and Longitude: 85° 24'55.489" E - 85°25' 13.892" E. The project falls under Survey of India bearing Topo sheet no. 73 F/8. The mining lease area is approachable from Bhadrāsahi - Barajamda State High way which is further connected to NH-520 (2.07 km in south direction). The nearest habitation is Raika village at a distance of 0.05km in the eastern direction. The nearest water bodies are Jateswar Nalla at 0.9km, Karo River at 6.9km (NW) and a no. of ponds within 10km radius. The nearest airport connectivity is Tonto airstrip at 4.55km in WSW direction, Rourkela Domestic Airport at 64.34km in WNW direction and Bhubaneswar-Biju Patnaik International Airport at 203.14km. The reserve forest areas nearby are Thakurani Reserve Forest (0.04 Km in SSW direction). Sidhamath RF at 2.04km distance, Baitarani RF at 3.41km distance, Uliburu RF at 5.91km distance and Chamakpur RF at 7.64km distance. There are no Eco-sensitive areas, Biosphere reserve, National park & wildlife sanctuary within 10km radius.

12. **Baseline study conducted:** Baseline study was conducted during March, 2023 to May, 2023.

- a) **Ambient Air monitoring:** -Ambient Air Quality was monitored at eight sampling stations and the monitoring were conducted for a period of three months. PM<sub>10</sub> is within range of 45.6µg/m<sup>3</sup> to 92.4 µg/m<sup>3</sup>, PM<sub>2.5</sub> is within range of 25.6µg/m<sup>3</sup> to 52.6 µg/m<sup>3</sup>, SO<sub>2</sub> is within range of 4.0µg/m<sup>3</sup> to 19.2 µg/m<sup>3</sup> and NO<sub>x</sub> is within range of 10.8 µg/m<sup>3</sup> to 25.6 µg/m<sup>3</sup>.
- b) **Ground Water quality monitoring:** Groundwater quality parameters were monitored at 7 locations. pH is within range of 7.12-7.85, Iron content is within range of 0.36-0.52mg/l, SO<sub>4</sub> is within range of 5.08-6.02mg/l, NO<sub>3</sub> is within range of 1.62-1.81mg/l, TDS is within range 214-273mg/l.
- c) **Surface Water quality monitoring:** Surface water quality parameters were monitored at 7 locations. pH is within range of 6.98-7.92, Iron content is within range of 0.18-0.29mg/l, SO<sub>4</sub> is within range of 8.62-13.8mg/l, NO<sub>3</sub> is within range of 2.42-3.91mg/l, TDS is within range 126-170mg/l.
- d) **Ambient Noise monitoring:** Noise level in the study area was monitored at three sites. Noise levels vary from 57.2 dB(A)-71.8 dB(A) during daytime and 48.5 dB(A)-68.6 dB(A) during night time.
- e) **Soil monitoring:** Soil samples were collected from three locations. The pH of the samples ranged from 6.14-6.36 and the texture varies from Clay to Sandy Loamy. The NO<sub>3</sub> concentration varied from 162-170mg/Kg.

13. **Water requirement:** The total water requirement shall be 25 KLD.

14. **Rainwater harvesting details:** They have not proposed for any rainwater harvesting provision.

15. **Products generated:**

Units	Products and By products	Existing	Additional	After Expansion
	Iron Ores	Nil	1.0 Lakh Ton Iron Ore/Annum	1.0 Lakh Ton Iron Ore/Annum
	Manganese ore	Nil	1000 Ton Manganese Ore/Annum	1000 Ton Manganese Ore/Annum

16. **Mining Plan Details:**

a) **Details of Minerals:** Iron ore will be extracted from the mines. There is enhance in production of iron ore to maximum ROM of 30,00,060 (3 million) TPA (23,15,460 TPA of +55% grade iron ore and 6,84,600 TPA of +45 to +55% grade iron ore).

b) **Method of Mining:** Opencast mechanized method of mining will be adopted with deployment of machines like 100mm DTH drill, 2.5m<sup>3</sup> capacity excavators, 30t capacity dumpers etc and on 8 hourly single shift basis. The bench height and width will be maintained at 3m and 5m-15m respectively. The slope of individual bench will be vertical (80%) & horizontal (37%). The ground water depth is 540mRL.

c) **Details of crushers/screen/beneficiation plant if any with capacity and numbers, water requirement for the project, plantation details, greenbelt details:** ROM will be upgraded in the ML area in respect of size and grade by way of dry crushing and screening. There is proposal to install Jaw Crushers of 150 TPH capacity, mobile screening plant of capacity 200TPH.

d) **Land use as per mining plan at the end of plan period and at conceptual stage:**

Sl. No	Particulars	Present Land use (Ha)	Plan period Land use (Ha)	Conceptual Land Use (Ha)
1	Area under Mining	4.82	10.32	11.031
2	Over burden/Waste Dumping	1.26	2.01	3.016
3	Mineral storage/Stacking yard and processing yard	0.71	1.92	3.099
4	Roads	2.0	2.0	1.46
5	Infrastructure	0.01	0.01	0.119
6	Safety Zone	1.70	1.70	1.70
	<b>Sub-total</b>	<b>10.50</b>	<b>17.96</b>	<b>20.425</b>

7	Un-disturbed	15.743	8.283	5.818
Total		26.243	26.243	26.243

17. **Power Requirement & solar power details:** Power will be sourced from State grid. However, a 500 KVA DG set will be there for any emergency.
18. **Solid waste generation:** During the process of mining for the plan period of 5 years from 2023-24 to 2027-28, the generation of waste materials will be 30961m<sup>3</sup>.
19. **Mitigation of solid waste produced:** OB Waste will generated from both Iron and Manganese quarry which will be eventually stored at the designated places as per the approved Mining Plan. In plan period waste will be utilized for road maintenance. Further, in conceptual period it will be used for back filling.
20. **Greenbelt Development:** The total area allocated for greenbelt 1.70 Ha.
21. **Total Employment:** With the enhancement in production there will be scope for additional 52 persons (at present the mines has 52 persons as direct employee) in the leasehold area to carry on the mining and ancillary operations in two shifts. No colony is planned as most of the workers will be from local villages.
22. **Project Cost:** Estimated Capital cost of the project is around Rs.42.416crores.
23. **Violation Details:**
- i) As per the above proceeding of Govt. of Odisha, Lessee has to take all the statutory clearances like approved Mining Plan, Environmental Clearance and forest clearance towards **execute of supplementary lease deed.**
  - ii) At present the Lessee has valid Mining Plan and cleared all the due in pursuance of the Supreme Court order dated 02.08.2017 in CWP no. 114/2014.
  - iii) Further, the mine produce excess of Iron & Mn (as accessed by CEC) beyond permissive quantity and without obtaining prior environmental clearance during the year **2000-01 to 2009-10.**
  - iv) Therefore, in pursuance of the Supreme Court order dated 02.08.2017 in WP(C) no. 114/2014, Director of Mines, Govt. of Odisha vide its letter dated 17.05.2022 raised the demand for production of excess Iron & Manganese Ore beyond permissive quantity and without obtaining environmental clearance during the year 2000-01to 2009-10 (as accessed by CEC) of **Rs 4,37,99,592/- along with 12% interest.** Accordingly, the project proponent deposited the demand amount in this regard i.e., **Rs 4,37,99,592/- along with 12% interest** on dated 18.05.2022. Additionally, as suggested by Govt. of Odisha the proponent also paid another **12% interest amount of Rs 1,26,66,079/- on dated 20.10.2022.**
  - v) The proponent has Suo-moto admitted violation and applied for violation ToRs.
24. **Environment Consultant:** The Environment consultant **M/s EHS 360 Labs Pvt. Ltd.,** along with the proponent made a presentation on the proposal before the Committee.

25. The proponent has requested for exemption of public hearing as they have already conducted public hearing for the same proposal on 25.04.2012.

Considering the information furnished and the presentation made by the consultant M/s EHS 360 Labs Pvt. Ltd. along with the project proponent, the SEAC recommended the following:

**A. The proponent may be asked to submit the following for further processing of EC application:**

- i) Latest forest clearance obtained from the concerned DFO.
- ii) Copy of wildlife conservation plan for the wildlife in nearby Reserve Forests.
- iii) The details of the Net Present Value (NPV) compensation paid for operating the mines without Environmental Clearance.
- iv) Documents in support of mining lease obtained during 1979 to 2009.
- v) Detailed justification as to why public hearing shall be exempted.

**B. Following specific ToRs may be prescribed while issue of Terms of References:**

- i) Details of the greenbelt coverage area. Care should be taken to cut minimum no. of trees and transplanting should be followed.
- ii) Compliance to conditions recommended in study report conducted by NEERI.
- iii) Traffic management study report vetted by institute of repute.
- iv) Details of parking plaza & road connectivity to the Mining Lease area.
- v) Detailed layout showing the location of each unit w.r.t Environmental aspects such as OB Dump, mining quarry, Garland Drain, Check Dams etc.
- vi) Detailed note on fly rock management, slope stability and scientific study for vibration.

**ITEM NO. 05**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR JUJUMARA DECORATIVE STONE MINES OVER AN AREA 1.80 HA IN VILLAGE JUJUMARA, DIST: SAMBALPUR OF MOHAMMAD KHAN - EC**

1. This proposal is for Environmental Clearance of Jujumara Decorative Stone Mines over an area 1.80 Ha in village Jujumara, Dist: Sambalpur of Mohammad Khan.
2. **Category:** As per the EIA Notification dated 14<sup>th</sup> September 2006 and its subsequent amendments the proposed project falls under category B2 (<5ha) of Schedule in item 1 (a) – mining of minerals.
3. This is an existing mine operating since 29<sup>th</sup> July 2004. As the lease area is less than 5.0 Ha and operating before 14<sup>th</sup> September 2006, Environment Clearance was not applicable for the mines. However, for renewal of mines EC is applicable to all the lease area.
4. This is a B2 category project and public hearing has been exempted as per EIA Notification 2006 and subsequent amendments.
5. **List of Statutory Clearances obtained earlier -**

- a) The Mining Plan along with PMCP was approved by Directorate of Mines & Geology, Steel & Mines Department, Govt. of Odisha, Bhubaneswar vide letter no. 5440/DM dated 27.06.2022.
- b) As per Cluster Certificate issued by The Tahasildar, Jujumara Tahasil, there is no other mineral lease located within the 500m from the periphery of the proposed project and the it doesn't come under DLC area.
6. **Location and connectivity:** The project area is located in village Jujumara of Sambalpur District, Odisha. The lease area is entirely located in waste land under Patita Category under the revenue head of Abada Ajogya Anabadi Kissam bearing khata no 296 and plot no. 644/P. The ML area is located in Topo sheet no. 73C/4 and bounded by Latitude 21°14'27" to 21°14'39" N and Longitude 84°07'53" to 84°07'57" E. The lease area is located at a distance of 0.75 km from the NH 55 i.e. Sambalpur- Cuttack Road. From NH- 55 the lease area is connected through all weathered road. Sambalpur –Jharsuguda Railway line is located at a distance of 0.66 km from the lease area. The nearest railway station of located at 1.5 Km from the lease area. Nearest habitation is Jujumara village which is at a distance of 1.0 Km from the lease area. The project is not located within Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC. Ushakothi Wild Life Sanctuary is situated 25km distance from the lease area.
7. **Total Reserves Production:** The total Geological Reserves for the ML area is 111546 Cum, Mineable Reserves for the ML area is 47728Cum.
8. **Water requirement:** About 2KLD of water will be required in the mine for domestic and non-domestic purpose.
9. **Mining Plan Details:**
- a) **Details of Minerals:** There will be production of Decorative Stone of quantity 2080(cum)/annum.
- b) **Method of Mining:** Semi Mechanized Open cast Method with drilling and wedge and feather cutting. The maximum depth of mining will be 10m. The equipment used are Poclairn, Wire saw, Jack hammer Drill, Compressor, drill rod, water tanker and safety equipments.
- c) **Transportation:** From the mines the transportation will be carried out once in a week with 2 nos. of trailers. The haul road from the lease area to the main road is of 0.75 Km with a width of 10m. The haulage road meet to NH 55.The road is not passing through any village or habitation.
10. **Solid waste generation:** A total waste of 15480m<sup>3</sup> will be generated during the conceptual period.
11. **Mitigation of solid waste produced:** The waste rejects (50%) amounting 7740 cu.m will be dumped over an area of 1548m<sup>2</sup> at 7.5m height. Depending upon the essentiality, remaining 50% waste/rejects will be sold to the local entrepreneurs for construction of building and roads. These stone will be utilized con-currently for construction & maintenance of road in the lease area.
12. **Greenbelt Development:**They have proposed for afforestation program of 1400 saplings in the safety zone over an area of 5260sq.m.

13. **Total Employment:** A total of 23 nos. of people will be employed in the mine.
14. **Project Cost:** The total project cost is 250 Lakh. The Capital cost allocated for implementation of EMP is 9.0 Lakh and recurring cost allocated for EMP is 5.8lakh.
15. **Environment Consultant:** The Environment consultant **M/s Kalyani Laboratories Private Limited, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.

Considering the information furnished and the presentation made by the consultant **M/s Kalyani Laboratories Private Limited, Bhubaneswar** along with the project proponent, the SEAC decided to take decision on the proposal after receipt of the following from the proponent :

- i) Copy of DSR for proposed project i.e. Jujumara Decorative Stone mines prepared by the district administration, which is in the process of approval by the District Administration.
- ii) Detailed dimension of the settling pond, its capacity and frequency of the de-siltation to be carried out from the settling ponds.
- iii) Permission obtained from the local authority for creation of Pond in the ML area rather than back filling followed by plantation.
- iv) Details of mRL for both before and after the mining for surface water and ground water.
- v) Mine closure plan approved by concerned authority.
- vi) Clarification from Steel & Mines Deptt., Govt. of Odisha regarding extension of mining lease.
- vii) Rectified mining plan removing the blasting activity, as there is provision of blasting in the said mining plan whereas it has been presented before the SEAC that there won't be any blasting activity.
- viii) Precautionary measures to be taken w.r.t. Noise and Vibration as there is a school nearby.

**ITEM NO. 06**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR SIANBAHAL STONE QUARRY OVER AN AREA 12 ACRES OR 4.856 HECTARE IN VILLAGE SIANBAHAL OF KOIRA TAHASIL, DIST- SUNDARGARH OF SMT. JYOTIN SAHOO – VIOLATION ToR**

This is a proposal under B2 Category. The SEAC decided that this will be dealt separately without presentation.

**ITEM NO. 07**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF CHADHIAPADA SAND QUARRY WITH PROPOSED EXCAVATION OF 5200 CUM/YEAR OF SAND OF TAHASILDAR CHIKITI HAVING AN AREA OF 5.090 HA. LOCATED AT KHATA NO: 631, PLOT NO: 1079 & 1 AT-CHADHIAPADA, TAHASIL- CHIKITI, DISTRICT- GANJAM OF TAHASILDAR, CHIKITI - EC**

The project proponent was absent during the meeting and has requested via E-mail to defer the proposal to the next SEAC meeting.

  
MEMBER SECRETARY, SEAC