



		on our mining project which will not effect on our mining activity. The distance certificate copy from Tahasildar, Kuchinda has been attached for your reference as Annexure-I .	
2.	The project proponent shall demarcate the safety zone w.r.t to the Bridge.	The road bridge is situated upstream of the lease area which is 0.20km away from the lease area. We are leaving 300 meter inside the lease area as safety zone area, which image has been attached for your reference as Annexure-II .	-
3.	The project proponent shall find out the common workable area and production w.r.t. that area after leaving the safety zone.	The detail calculation of the common workable area and production after leaving the safety zone has been attached for your reference as Annexure-III .	As per approved mining plan, Mineable Reserve area = 23223 Sq.m The total lease area excluding safety zone = 16,324 Sq.m. During Replenishment Study the available sand for mining is = $6,315 \times 0.70 = 4,420.5 \text{ m}^3$

19. The SEAC observed the following :

- i) As per the replenishment study report, the pre-monsoon survey was done on 20th May 2022 and post monsoon survey was done on 25th November 2022 by UAV / drone (Photogrammetry method). Based on above the common water free mineable area is reported to be 6315 m², which is less than 72.8% of the mineable area (23223 m²) mentioned in the approved mining plan. This difference in the mineable area needs to be reconciled. Further the approved mining plan states that mining over an area of 2500 m² on riverbed sand every year also needs to be revised for mining over the entire water free mineable area under the mining lease.
- ii) The replenishment study report has mentioned the mRL of the riverbed sand to be 211.81 m and 212.51 m inferring a deposit of 0.7 m sand on the riverbed. This reported difference of sand in the replenishment study report is not considered significant as it is very much less than the error of elevation (Z) measurement, which is mentioned to be 5.71938 m. The approved mining plan however mentions the depth of the riverbed sand till water level to be 1 m and also states the quarry floor level mRL to be 210 mRL after mining. The mRL details in the approved mining plan are in agreement with those reported in the replenishment study report. Quantity of sand available after post-monsoon is **8820 cum** but mining plan approved **2500 cum**.

20. Considering the information furnished and the presentation made by the consultant, **M/s Parivesh Environmental Engineering Services, Lucknow, Uttar Pradesh** along with the project proponent.

2. Whether SEAC recommended the proposal – Yes, the proposal was placed in the SEAC meeting held on 30.01.2024 and the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – E** and following specific conditions:

- (i) Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure –F**.
- (ii) Sand extraction shall be limited to **quantity and depth as per replenishment study report**. Regular replenishment study as per guidelines to be conducted and report to be submitted.

Provision of Bio-toilet shall be made at the site.

Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.

- (v) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
- (vi) No natural water course shall be obstructed or diverted for the purpose of sand mining.
- (vii) As per Sand Sustainable Guidelines, 2020, the proponent shall ensure that no mining should be allowed below water level.
- (viii) Mining of 3789cum of riverbed sand or the first year may be recommended as per the following calculation: 6315 m^2 common water free area X 0.6 m depth of sand mining subject to appropriate revisions in the approved mining plan.

Decision Of Authority: Approved

After detailed deliberations in the matter, the Authority decided to grant **Environmental Clearance** with usual stipulated conditions as applicable for sand quarry. Further, enhancement in production if required, shall be considered after submission of revised mining plan.

- Maximum depth of mining 1.0 meter and maximum quantity of extraction shall be limited to **2500 cum/annum** for the lease period. Further enhancement of extraction shall be considered on revision of mining plan.
- The PP shall carryout the ARRS study in subsequent year through a NABET or ORSAC empaneled agency and submit to SEIAA, Odisha.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and also as per the Hon'ble Supreme Court order vide its order dated 10.11.2021 in Civil Appeal Nos. 3661-3662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others).
- The Project Proponent (lease holder) shall deposit Rs.2,50,000/-, with the respective District Environment Society for raising 500 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of Rs.4.70 Lakh (Capital cost) & Rs. 2.350 Lakhs / annum as recurring cost and CER cost of Rs. 3.50 Lakhs.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



PARIVESH I.O, AGENDA No.163.17

Proposal No.	SIA/OR/MIN/440752/2023
Date of application	06.10.2023
File no.	-
Project Type	Expansion of EC proposal
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC 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 -Tahasil in Sundargarh District of Shri Rajiv Lochan Mohanty
Name of the company/Organization	M/s. M G Mohanty Rajib Lochan Mohanty, Managing partner
Location of Project	Village - Patabeda under Koira - Tahasil in Sundargarh District
ToR Date	03.11.2022
Name of the Consultant	M/s. Srushti Seva Private Limited, Nagpur

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. This proposal is for 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 - Tahasil in Sundargarh District of Shri Rajiv Lochan Mohanty.
2. **Category:** This is a Category – B project which falls under schedule 1(a) - Mining of Minerals as per the EIA Notification 2006 and amendments thereafter.
3. **Mining Lease details:** Initially, Patabeda Iron & Manganese mining lease was granted over 19.425 ha. on 03.04.1986 to M/s M.G. Mohanty for a period of 20 years by Department of Steel & Mines, Govt of Odisha. M/s M.G. Mohanty is a partnership firm, having its registered office at 2A, Forest Park, Bhubaneswar-751009, District - Khordha, Odisha. Sri Rajib Lochan Mohanty is the Managing Partner and lawful attorney of M/s M.G. Mohanty. Since the mining lease have been extended for 50 years in all total w.e.f. 03.04.1986 to 02.04.2036 as per section 8A (3) of Mines and Minerals (Development and Regulation) Amendment Act, 2015. So, Supplementary lease deed has been executed on 01.08.2016. Total lease area comprises of 19.425 ha., out of which, 16.507ha is of forest land and 2.918 ha is of non-forest land.

Particulars:	As per EC granted on 09.01.2007	Proposed for expansion
Method of Mining	Openeast semi-mechanized method involving blasting with single shift basis.	Open east fully-mechanized mining method with double shift basis.
Production Capacity	1, 80, 000 TPA	5, 72, 305 TPA (542625 TPA iron ore from Excavation + 29680 TPA Saleable iron ore from re-handling of dump)

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Water requirement	15 KLD	70 KLD
Solid waste	1802 m ³ / month	319916 Ton/ Plan period
Mineral Beneficiation	There is one no. of Crushing unit of 120 TPH& one mobile screening unit of 250 TPH exists in the lease area. (CTO obtained)	Additionally, one mobile crusher of 250 TPH and 250 TPH mobile screening unit are proposed.
Project cost	2.0 Cr.	10.0Cr.

- Earlier, environmental clearance for production of 0.18 MTPA of iron ore has been obtained vide letter no - J-11015/41/2006-LA.II (M) on dated 09.01.2007 from MoEF& CC, Govt. of India.
- TOR Details:** Terms of Reference (TOR) was issued by SEIAA, Odisha vide proposal no. - SIA/OR/MIN/77960/2022 on dated 03.11.2022.
- Modification to the review of mining Plan has been approved by the Indian Bureau of Mines, Bhubaneswar on 16.03.2022 for a period from 2022-23 to 2025-26 by the Indian Bureau of Mines, Bhubaneswar.
- Site specific wildlife conservation plan has been approved 01.07.2009. The recent additional water demand will be sourced from nearby Ground water source. So, NOC for drawl of ground water has been obtained from CGWA for 30 KLD. Consent to operate for operation of mine has been obtained from SPCB, Odisha, which is valid till 31.03.2026.
- Total lease area comprises of 19.425ha., out of which, 16.507ha is of forest land and 2.918ha is of non-forest land. Out of total forest land, 15.622 ha has been accorded forest clearance vide no: S-ORC058-2007-BHU on dated 17.08.2009 and the rest safety zone of 0.885 ha has been applied for FC as per OM vide no - FC-11/151/2022-FC on dated 07.11.2022.
- Public hearing details:**Public hearing conducted successfully on 09-05-2023 at 10:00 A.M at Football Play Ground of Patubeda Village under Koira Block of Sundargarh District. Issues raised during public hearing were air pollution and mitigation measures, water pollution and management, blasting&ground vibration, plantation & soil erosion, employment and peripheral development issues. Total Rs 300.0 lakhs will be spent towards Public hearing demand under CER Activities in 5 years.
- Location and Connectivity:** The proposed mines is located at Mouza – Patubeda, Tahasil – Koira, in Dist – Keonjhar, Odisha with Khasra no/Compartment no – 24/202, 24/203, 24/204, 26/197, 26/198, 26/199, 26/201, 27/189, 27/190, 27/191, 27/200, 27/205, 26/196/248. The site is bounded by Latitude:21°55'45.15980" to 21°56'01.68076"N and Longitude: 85°22'21.57196" to 85°22'35.98813"E, bearing toposheet no. F45 N/5. The mine is accessible from Koira town (on NH-215) in Sundargarh district covering a distance of 17 km all weather road. The mine is also accessible from Joda town in Keonjhar district covering a distance of 27 km consisting of 17 km between Joda&Jaribahal and 10 km between Jaribahal& the mine. Nearest NH is NH 215 - 9.0 Km; Nearest Railway station is at Barbil – 41 Km; Nearest Railway Siding is at Juruli: 6.5 Km; Nearest Air Port is at Jharsuguda: 150 Km; Nearest Air strip at Tarto @ 12.0 Km; Nearest Water bodies –KakarpaniNala –1.5 KM - W, SanaNadi –3.0km –N, Baitarani River –6.5 km –E. Nearest Reserve Forest - Siddamath RF –3.0km –NW&Baitarani RF –4km –NE. There is no Wild Life Sanctuary or National Park within the study area of 10 km. However, Karo - Karumpada elephant corridor is located at about 15.0 km from the mine lease area

11. Total Production:

Year	Total Handli ng (t)	ROM Quanti ty (t)	ROM Quanti ty Saleable Mineral (t)	Total dump handli ng (t)	Recove ry of Saleabl e Minera l (t)	Total Saleable (t)	Total Iron Ore to be produced (t)
2022-23	180750	166950	166950	80136	29680	196630	196630

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2023-24	548775	431575	429450	80136	29680	459130	461255
2024-25	495850	493050	437550	80136	20440	457990	513490
2025-26	542625	542625	531750	55188	29680	561430	572305
Total	1634200	1565700	295596	109480	1675180	1743680	

12. Method of Mining & Mining plan details: Open cast fully-mechanized mining method will be adopted with the deployment of machines like wagon drill, Compressor, Hydraulic excavators & Tippers etc. Bench height of 10m and minimum width of 10m are proposed to achieve the enhanced production target and the bench slope will be kept nearly vertical (80°) with horizontal. The operations will be on double shift basis with deployment of 100 mm diameter blast hole drills for loosening of hard rock mass, 2.1 m³ capacity excavators for excavation, 2.1 m³ & 1.5 m³ excavator for feeding and loading, 25 tonne to 35 tonne capacity dumpers for transportation of ROM ore to the screening and crushing plant and waste to the waste dump. There is one no. of crushing unit of 120 TPH & one mobile screening unit of 250 TPH exist in the lease area. One more mobile crusher of 250 TPH and mobile screening of capacity 250 TPH are proposed.

13. Land use:

Particulars	Area put on use at start of proposed period(ha)	Land use at the end of proposed Modification period(ha)
Area under mining	6.5	7.066
Waste dumping	1.138	1.838
Mineral Storage	7.065	5.38
Infrastructure ()Workshop/Administrative building etc.	1.048	1.278
Roads	0.824	1.024
Mineral Separation Plant	0.6	0.6
Magazine	0.05	0
Garland drain, Retaining wall, Settling Tank etc.	0.91	0.949
Greenbelt	1.29	1.29
Total	19.425	19.425

14. Waste generation and management details: Total 133800 t of OB materials will be generated from ROM and 186116 t of waste from re-handling of dump will be generated during plan period. A total of 68500 t of mineral reject will be generated from the ROM. As re-handling of Dump-1 will be continued in the plan period, dumping of generated waste will be carried out on dump-3. Maximum height of the terrace will be kept 10m and individual terrace slope will be maintained 37° and overall slope will be maintained 28° with the horizontal. No liquid effluent will be generated at mining site. Domestic waste water generated will be treated in septic tank followed by soak pit. This mine is based on zero discharge concepts. Protective measures like retaining wall, garland drain & settling tank have already been built up around the waste dump and quarry. However, maintenance and cleaning work will be continued during this plan period. In addition, retaining wall and garland drain have been proposed for waste dump.

15. Baseline study details: Baseline environmental data generation in and around Patabeda Iron & Manganese mines has been carried out during March to May, 2022 (summer season).

- **Ambient Air Monitoring** - Ambient Air Quality was monitored at the eight (8) locations, during the monitoring season with the frequency of monitoring for 2 days per week at each sampling station. The AAQ analysis indicates that the concentration of PM₁₀ varied from 52 to 80 µg/m³, PM_{2.5} from 31 to 50 µg/m³, SO₂ from 4.3 to 17.5 µg/m³, NO_x from 9.2 to 21.0 µg/m³ and Benzene, BaP, Ni, As, & Pb were found below detection limit.

• **Ambient Noise level** - Noise monitoring was carried out at 8 locations as per the standard prescribed by CPCB. Noise level varies from 42 to 71 dB (A) during Day time and 36 to 67 dB (A) during Night time, which are below the prescribed limits of CPCB.

• **Water Quality Status** - Water quality sampling was carried out at 8 locations as per the CPCB standards out of which 4 locations were of Surface Water & 4 locations were of Ground water.

- **Surface water Quality** - pH values varied between 7.05 to 7.21 while Turbidity varies from 0.03 to 5.9 NTU, Dissolved Solids varied from 158 to 258 mg/L, Dissolved oxygen varies from 5.2 to 6.8 mg/L, BOD varied from <1 to 3.0 mg/L and Chloride values varied between 8.0 to 12.0 mg/L, Iron values varied from <0.05 to 0.543 mg/l, and Nitrate values varied from 1.05 to 1.93 mg/l.
- **Ground water Quality** - pH values varied between 6.90 to 7.61 while Turbidity ranged from 0.5 to 4.98 NTU, Dissolved Solids varied between 132 to 266 mg/l and total hardness varied from 89 to 161 mg/l, Chloride values varied between 9 to 16.0 mg/l, Calcium values varied between 15.0 to 36.0 mg/l, Zinc values varied from 0.050 to 0.261 mg/l & Lead, Copper, Manganese, Fluoride, Mercury, have been observed below detection limit.
- **Soil Characteristic** - Soil samples were collected once during study period from 4 locations within the study area. The bulk density of soil samples varies from 1.2 to 1.8 gm/cm³, while porosity varies from 34 to 42.5%. Potassium ranges from 0.04 gm/cm³ to 0.18 gm/cm³, Sulphate ranges from 0.01 gm/cm³ to 0.02 gm/cm³, Nitrogen ranges from 0.07 gm/cm³ to 0.1 gm/cm³ and SAR ranges from 0.59 gm/cm³ to 0.75 gm/cm³.

16. Total water requirement & wastewater management: The total water requirement will be 30 KLD comprising 20 KLD for mining & dust Suppression, 5 KLD for greenbelt and 5 KLD for domestic use. No liquid effluent will be generated at mining site. Domestic waste water generated will be treated in septic tank followed by soak pit. Mine will be operated in "Zero Discharge of liquid Effluent".

17. Power requirement: The power requirement for the mining complex (including office) shall be around 50 KW. The supply of electrical energy for the mine site shall be sourced from TPWODL and 3.08 KW from Solar system, which has already been installed. Apart from it, around 1000 litres of diesel will be consumed for running the mines vehicles per month.

18. Rainwater harvesting details: Three numbers of settling ponds of capacities 1472 m³, 1176 m³ and 858 m³ has been constructed to arrest the surface runoff water in side lease area. A big catch pit of 55m length x 20m width and depth varying 5m to 10m has been constructed outside lease area for storage of rainwater. Additional garland drain of 280 m and retaining wall of 110m proposed for expansion.

19. Greenbelt details: A Green belt over 1,290 ha has been developed by planting native species in consultation with the local DFO around the MI area. Over 1,411 ha. of land of existing dump slope, land between dump, pit and road has been planted with native plant species. A total of 18738 plants has been planted. A total of Rs 37.30 lakhs has been spent for plantation.

20. Employment details: Directly 138 persons and indirectly more than 300 people will be employed by the project.

21. Project cost: Total Cost of the Project is RS. 2000.0 Lakhs, EMP capital cost is RS. 50.0 Lakhs, and Recurring Cost is RS. 50.0 Lakhs and CSR Cost is 300.0 Lakhs.

Sl No	Particulars	Capital Cost (in Lakhs)	Recurring cost (in Lakhs)
1	AIR POLLUTION CONTROL		
	Mobile water sprinkler	12.0	5.0
	Fixed water sprinkler	5.0	1.0
	Dry fog system for crusher & Screen	15.0	2.0



	Maintenance of Wheel Washing Facility	-	1.0
	EMR Manpower		10.0
	Misc.		1.0
	Sub-Total	32.0	20.0
	WATER POLLUTION CONTROL		
	Construction of retaining wall/garland drain, check dam & Settling Pond	8.0	3.0
	Construction of water harvesting pond	4.0	1.0
	Maintenance of ETP & STP		3.0
	Misc.		3.0
	Sub-Total	12.0	10.0
3	NOISE POLLUTION CONTROL		
	PPE, Lubrication etc.	--	2.0
4	ENVIRONMENTAL MONITORING		
		--	10.0
5	PLANTATION		
		6.0	5.0
6	OCCUPATIONAL HEALTH MANAGEMENT		
		--	3.0
	Sub-Total	6.0	20.0
	Grand Total	50.0	50.0

22. **Environment Consultant:** The Environment consultant M/s Srushti Seva Private Limited, Nagpur along with the proponent made a presentation on the proposal before the Committee on 20.11.2023.

23. The SEAC in its meeting dated 20-11-2023 decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
i)	The present proposal is for expansion in production of iron ore whereas the material storage area and magazine area has been reduced and no area is proposed. Justify how the proposed area will be adequate for the proposed material storage and magazine and submit the layout showing the storage area, magazine area with area dimensions.	The area of mineral storage is a dynamic feature i.e. based on availability the unused area can be utilized for the purpose. The guideline of Indian Bureau of Mine in this regard is enclosed as Annexure-A . At present the mineral storage yards are on the unutilized area over 7.65 ha which shall be reduced to 5.38 Ha during 24-25 as part area of mineral storage shall be utilized for other purpose. Also, at present the mine is operated in one shift which will be 2 shifts after enhancement of production due to which dispatch will be more on a regular basis and for a longer duration as compared to the present dispatch pattern and requirement of stacking of ore shall be less. In view of the same the mineral storage yard has been in the proposed plan shown less than the earlier plan area. The plan approved by Indian Bureau of Mines, Govt of India is enclosed for kind reference where the area and layout have been clearly shown (Annexure B).
ii)	Details of previous rejects/wastes generated from previous production. Total proposed quantity of sub ore/waste is being planned to sell in the	Till date around 1,20,000 tonnes of waste have been produced from mining operation which have been stored in Dump 3 & Dump 4. Similarly, a total quantity of 39466 tonnes of wastes have been stored in Dump 1 & 2 which contain sub grade ore to the tune of 32% (analysis report of NABL lab enclosed As Annexure C) and are marketable at



<p>proposed expansion to be duly certified from Director of Steel and Mines.</p>	<p>the present scenario. Due to this planning has been made to re-handle these dumps which has been incorporated in the mining plan and has been approved by IBM, Bhubaneswar. The table No 4.3.3 at page 53 & 54 of the approved mining plan is attached for kind reference (Annexure D). Department of Mines, Govt. of Odisha has already communicated regarding classifications of Iron ore dumps and alienation of sub-grade minerals therefrom in its letter MXXIC-59/11/14601/DM dated 30.12.2011. Copy of the letter enclosed as Annexure-F.</p>
<p>iii) Copy of mining plan and Consent to Operate indicating the approval of the selling/re handling the overburden/wastes.</p>	<p>Till date our production is within the Environmental Clearance quantity of 180000 tonne/annum of saleable ore. However, for selling/re-handling of waste, mining plan is duly approved by IBM, Bhubaneswar. The table No-4.3.3 at page 53 & 54 of the approved mining plan is attached for kind reference (Annexure D) and CTE from SPCB obtained (Annexure-F). The CTO will be applied after obtaining EC from SEIAA, Odisha.</p>
<p>iv) Details of Over Burden (OB) generated in previous mining and its management. Further, explain the process of separation of sub ore from wastes, commercial utilization of collected sub ore after separation and its management.</p>	<p>Till date around 1,20,000 tonnes of OB/waste have been produced from mining operation which have been stored in Dump 3 & Dump 4 with due terracing supported by retaining wall and garland drain. Similarly, a total quantity of 394661 tonnes of wastes have been stored in Dump 1 & 2 which contain sub grade ore to the tune of 32% (analysis report of NABL lab enclosed As Annexure C) and are marketable at the present scenario. Due to this, planning has been made to re-handle these dumps which has been incorporated in the mining plan and has been approved by IBM, Bhubaneswar. The table No 4.3.3 at page 53 & 54 of the approved mining plan is attached for kind reference (Annexure D). It is planned to segregate the saleable material through eye estimation substantiate with regular chemical analysis of both the saleable and waste materials. This practice is followed by nearby mines of Sundergarh and Keonjhar districts. After due separation of material, the wastes shall be dumped in the dump yard and the saleable material shall be sold.</p>
<p>v) Detailed note on dump management, void area management and OB dumping.</p>	<ul style="list-style-type: none"> • Maximum height of the terrace will be kept 10m and individual terrace slope will be maintained 37° and overall slope will be maintained 28° with the horizontal. • No liquid effluent will be generated at mining site. Domestic waste water generated will be treated in septic tank with soak pit combination. This mine is based on zero discharge concepts. • Protective measures like retaining wall, garland drain & settling tank have already been built up around the waste dumps and quarry. However, maintenance and cleaning work will be continued during this plan period. In

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		<p>addition, retaining wall and garland drain have been proposed for extension as per the proposed waste dump.</p> <ul style="list-style-type: none"> • Conceptually the voids will be backfilled partly using the stored wastes of the dump and will be rehabilitated through plantation.
vi)	Revised wildlife conservation plan along with its extension up to closure of mines duly certified by concerned DFO.	Site Specific Wild Life Conservation Plan has been prepared and approved from PCCF (WL)/Wild Life Warden of the State. In this regard we understood our SPWLCP is valid up to March 2024 (copy of letter is attached as Annexure-G) and we have applied to the DFO, Bonai for SPWLCP for next 5-years to be prepared by wildlife warden Bonai and got it approval from CWLW, Odisha. The guideline of CWLW, Odisha is enclosed as Annexure-H .
vii)	Detailed note on parking plaza for enhanced production and its management along with travel road radius for bigger truck movements. Further, submit a copy of permission from Director of Steel and Mines, Govt. of Odisha declaring to use the parking as a part of the Mining lease area.	The lease has a parking plaza in the mining lease area. As per the requirement about 6 bigger truck movements per hour shall be required for the expansion project requiring parking and allied areas for about 30 trucks @ 60 sq m per truck on an average. About 0.23 ha of land has been proposed under heading "Infrastructure" for the purpose. The location plan showing this is enclosed as Annexure-B (Index 5A) .
viii)	Details of surface RL and bottom RL of Mining lease area.	As per the approved mining plan the TOP RL of the ML area is 725 msl and bottom RL is 602 msl. The ultimate mine working will be till 615 msl.
ix)	Detailed note on how OB will be used in back-filling with its management and the quantity of saleable product to be sold.	The mining lease area slopes from north to south direction. During conceptual period the deeper parts of the quarry shall be backfilled to the extent up to 20 m using the stored wastes of the dump to create a gently sloping ground from north to south. After part backfilling the level at the northern part of the remnant quarry shall be around 660 msl whereas that of southern part shall be around 632 msl. The total quarry area including the backfilled portions and the broken up areas shall be brought under plantation for rehabilitation. Conceptually, a total quantity of 8290450 tons of iron ore from mining and a tentative quantity of 126290 tons of iron ore from re-handling of existing dumps (sub-grade stacks) shall be sold.
x)	Compliance report of TOR points.	ToR compliance report is enclosed As Annexure - I .
xi)	SOP for collection of samples for Air and Water.	SOP for Air and Water sample collection is enclosed as Annexure - J1 & J2 .
xii)	Compliance to NEERI recommendations.	Compliance to NEERI recommendation is enclosed As Annexure - K .
xiii)	The PP may submit the current status of Settling pond, analysis of settled	There are 3 no. of existing settling ponds within the ML area with dimensions of 368, 336 and 212 sq.m with depth



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solids, generation of fines/taillings and its management.

varying from 4 to 5m. Silt was analysed and the report is enclosed as **Annexure L**.
The fines/tailling recovered from the settling tanks are dumped at the proposed dump and precautions in the shape of Retaining wall and Garland drain are being adopted to avoid their flow with the surface runoff. The SOP of desiltation/management of fines/tailling is enclosed as **Annexure-M**.

Considering the information furnished and the presentation made by the consultant M/s Srushti Seva Private Limited, Nagpur along with the project proponent.

2. Whether SEAC recommended the proposal –Yes, the proposal was placed in the SEAC meeting held on 30.01.2024 and the SEAC recommended for grant of Environmental Clearance with stipulated conditions as per **Annexure – A** and following specific conditions.

- (i) The proponent shall utilize different grades of iron ore (ROM) and waste generated according to IBM guidelines.
- (ii) The proponent shall carryout compensatory afforestation for the project site.
- (iii) The proponent shall adopt additional measures for dust suppression.
- (iv) Conversion of Gochar / Grazing land if involved in lease area shall be made before going for mining activity.
- (v) Rainwater harvesting structures shall be implemented.
- (vi) The lessee shall take adequate safeguard measures to ensure the free flow of the nearby tributaries/nallahs if any.
- (vii) The EC is limited to secondary crushing and screening operations (dry process) as per approved mining plan. Under no circumstances, the lessee shall carry out any beneficiation activity (wet process) of low grade ore.
- (viii) All the ores (45-55) and +55 grades shall be used and ores & rejects shall be transported as per approved mining plan for their use. Only temporary stacks shall be operated. The mine shall avoid segregation & generation of fines and flow of silt during rainy session.
- (ix) Green processes like Controlled drilling, Environment friendly blasting, safe transportation and conveying, silt-management shall be followed as per guidelines.
- (x) The settling pond shall be relocated to a convenient location away from the OB dump. The sizes of settling ponds shall be determined based on available past rainfall data.
- (xi) The mine shall explore the possibility of replacing the nozzles with the ones that will produce fine atomized spray instead of coarse water droplets for dust suppression.
- (xii) The mine shall carry out the slope stability study of the OB dumps and mine benches for the enhanced production capacity.
- (xiii) The proponent has planned to re-handle the waste-dumps which contain 32% of marketable sub-ores. So, the production of sub ores may exceed the limit of 180000 tonnes/annum (for environmental clearance). So, precautions should be taken for production of sub ores from dumps.
- (xiv) Revised Wildlife Conservation Plan, duly approved by competent authority, shall be finalized and implemented at the earliest possible and not later than one year.

Decision Of Authority: Approve

After detailed discussion in the matter, the authority decided to grant EC with stipulated conditions as recommended by SEAC.


Member Secretary, SEIAA

APPROVED BY

Member, SEIAA


Chairman, SEIAA



PARIVESH 1.0, AGENDA No.163.18

Proposal No.	SLA/OR/INRA2/430220/2023
Date of application	07.06.2023
File no.	-
Project Type	New EC proposal
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction
Name of the Project	Proposal for EC of M/s Tesko Hotels & Malls Infra projects Pvt. Ltd. for Commercial Hotel Building B+S+9 storied over an built up area 36830.99 sqm located at Mouza-Chandrashekharpur, Tahasil-Bhubaneswar, Khordha of Sri Anup Lakhotia.
Name of the company/Organization	M/s Tesko Hotels & Malls Infra projects Pvt. Ltd. Sri Anup Lakhotia PP
Location of Project	at Mouza - Chandrashekharpur, Tahasil-Bhubaneswar, Khordha.
ToR Date	N/A
Name of the Consultant	M/s Right Source Solution Pvt. Ltd.

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s Tesko Hotels & Malls Infra projects Pvt. Ltd. for Commercial Hotel Building B+S+9 storied over an built up area 36830.99 sqm located at Mouza - Chandrashekharpur, Tahasil- Bhubaneswar, Khordha of Sri Anup Lakhotia.
2. **Category:** This project falls under Category "B", Project or Activity 8(a) - Building and Construction projects as per EIA Notification dated 14th Sep, 2006 as its amendments.
3. **Project details:** M/s Tesko Hotels & Malls Infra Projects Pvt. Ltd is proposing the Commercial cum Hotel Building project in the Plot Area of 12140.6 sqm.
4. **Airport clearance:** Airport NOC was obtained with NOC ID: BHUB/EAST/B/030223/744292, Dt.28.03.2023.
5. **Location and Connectivity:** The proposed site is located at Plot No - 321 (C/2), Khata No. - 619 of Mouza - Chandrashekharpur, Tahasil - Bhubaneswar, District - Khordha, Odisha. The Geographical co-ordinates of the project site is Latitude: 20° 19' 21.76" N to 20° 19' 16.00" N and Longitude: 85° 48' 05.56" N to 85° 48' 02.24" E. The area comes under Survey of India Toposheet No: F45T15. The project site is connected with National Highway NH-16 towards South at a distance of 4.0 km. The Bhubaneswar town is located at a distance of 3.8 km. The nearest Railway station is Bhubaneswar Railway station is at a distance of 7.5 km, SE direction from project site. Biju Patnaik Airport is at 7.0 km (South), Bhubaneswar Fire Station is located at a distance of 4.7 km.
6. **Built Up Area Details:** Plot Area is 12140.60 Sqm, Total Proposed FAR Area is 22196.78 Sqm, Total Built-up Area is 36830.99 Sqm, Green Area is 1672.72 Sqm, Height of the Building is 39.83 Mts. No. of Blocks is 1 Block with B+ S+9 Floors, No. of Rooms is 123.

S. No	Details of Land Use	Area in Sqm
1.	Plot Area	12140.60
2.	Total Proposed FAR Area	22196.78
3.	Total Proposed Non-FAR Area	14,634.21



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4.	Total Built-up Area	36830.99
5.	Total Green Area	1672.72
6.	Height of the Building	39.83 Mts

7. **Parking Area:** Parking Required as per BDA: (40% of Proposed F.A.R) = 8878.71 Sqm. Provided Parking area is 1105.82 Sqm. In terms of ECS @ 32 Sqm: Cars 345 + Bike parking – 115 Nos.
8. **Water Requirement:** The total water requirement of the project during occupational stage is 110 KLD. Domestic Water required is 104 KLD. Flushing Water will be 39.0 KLD. No Objection Certificate for Ground Water Abstraction was obtained with NOC from CGWB with NOC No. CGWA/NOC/INF/ORIG/2023/17946. Dt.15.03.2023 Valid up to 14/03/2028.

Domestic Water Requirement	143.0 KLD
Fresh water	104.0 KLD
Flushing water	39.0 KLD
Waste Water Generated (@ 80% fresh water + 100% flushing water)	83 +39 =122 KLD
STP Capacity Provided (at 1.2 times of W/W generated)	150 KLD
Treated waste water from STP (@90%)	110 KLD

9. **Waste water generation and management:** Waste water generation is 122 KLD which will be treated in STP of capacity 150 KLD proposed to be constructed at the site. Treated water from the STP will be used for flushing and horticulture purpose. STP will be provided with MBBR Technology
10. **Solid Waste Management:** Total solid waste generation will be 460 Kg/Day. Garbage will be 442.5 Kg/Day in which Biodegradable Waste 265.5 Kg/Day @ 60% will be treated in In-house Organic Waste Converter and Non-Biodegradable waste 177Kg/Day @ 40% will be Sent to Authorized Vendors as per SWM Rules 2016. Landscape waste will be 0.083 Kg/Day. STP Sludge generation will be 17.08 Kg/day.

WASTE SOURCE	DISPOSAL
Garbage – 442.5 Kg/day	<ul style="list-style-type: none"> Segregation at Source & Disposed properly as per SWM Rules 2016 Bio-Degradable – 265.5 Kgs/day – Organic Waste Converter Non-Bio-Degradable – 177 Kgs/day – (Authorized Recyclers/vendors)
STP Sludge – 17.08 Kg/day	<ul style="list-style-type: none"> Which is used as manure
Landscape waste -0.083	<ul style="list-style-type: none"> Which is used as manure

11. **Rainwater Harvesting:** Rain Water will be harvested through 10 nos. of Rain Water recharging pits.

Rainwater Harvesting				
Type of Area	Area (in m ²)	Coefficient of run-off	Peak rainfall intensity during one hour of rainfall (in m)	Rain water harvesting potential/hour (in m ³)
Roof-top area	4856.59	0.95	0.140	645.93
Green Area	1672.72	0.10	0.140	23.42
Total storm water load on the site with per hour retention is				669.35
Considering 15 minutes retention time, total storm water load				167.34



Taking the radius as 1.5 m and effective depth as 3.0 m, volume of a RWH pit ($\pi r^2 h$)	21.87
Hence, no. of pits required in approx = Total storm water load considered / 5 minutes retention time / Volume of a RWH pit	8 nos. required and provided 10 nos.

- Power Requirement:** The total consolidated electrical load estimate for proposed project is about 1628.8 Kw. Power backup in case of grid failure will be by 2 nos. of DG sets of 1010 KVA and 1250 KVA (1) capacities.
- Solar Power Generation:** Solar power generation is 89 KVA PV solar panels. This will be utilized for solar assisted water heating system.

Table: Energy savings

Description:	Energy Required (KW)	Energy Saved (KW)	Energy Saved (KW) in %
Compact Fluorescent Lamp(CFL)	152	152	13.0
Light Emitting Diodes (LED)	78		
Conventional Street Lights	3.12	2.88	
Solar Street Light	2.88		
Electrical Water Heaters	198	58	
Solar Water Heaters	87		
Other Energy Requirements	1027.72	-	
Total Energy Requirement in Project	1628.8	212.88	

- Green Belt Development:** Green belt will be developed over an area of 1672.72 Sqm (13.77%) of the plot area by planting 152 nos. of plant species like Neem, Bel, Gooseberry, Acacia, Chakurda etc.
- Firefighting Arrangements:** The height of the building is upto 39.83 mts. Fire Extinguisher, First Aid Hose Reel, Wet Riser, Yard Hydrant, Automatic Sprinkler System, Manually operated Electronic Fire Alarm System, Underground Static Water Tank, Overhead Tank will be provided as safety measures in the building block. Internal road of 6.0 mt width has been demarcated for movement of fire vehicle. Fire NOC recommendation issued with number RECOMM1204130052023001248, Dt.05.06.2023.
- Traffic Study:** Traffic Composition after development of the project will be good. Traffic study report was prepared by School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar.
- Project cost:** The project cost is estimated to be Rs. 98.80 Crores and there is a budgetary provision of Rs.12 Lakhs as capital cost and Rs.7.0 Lakhs as recurring cost during construction phase and Rs.59 Lakhs as capital cost and Rs.10.0 Lakhs as recurring during operational phase towards environmental protection measures.

Table: EMP budget during operational phase

S.No	Activity	Capacity /Area/Nos.	Capital Cost (Lakhs)	Recurring Cost (Lakhs)
1	SIP	150 KLD	40.0	4.0
2	Landscaping & Planting trees	152	6.0	2.0
3	Solid waste Management	460 Kg/Day	4.0	1.0
4	RWH Pit Installation	10.0	4.0	1.0
5	Environmental Monitoring	Air, Water, Soil & Noise	5.0	2.0

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Total	59.0	10.0
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18. **Environment Consultant:** The Environment consultant **M/s Right source Industrial Solutions Pvt. Ltd. Hyderabad** along with the proponent made a presentation on the proposal before the Committee on 05.07.2023.

19. The SEAC in its meeting held on dated **05-07-2023** recommended the following:

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

- Details of width of fire corridor, service road, DG space etc.
- Possibility to explore separate ramps for entry and exit in parking area. Further, separate parking area for Hotel and Mall shall be explored.
- Detailed drainage plan, internal drainage details, discharge point, drainage permission with supporting documents applied for NOC for drainage from concerned authority.
- Certificate from the concerned DFO that location is not coming within Notified Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary.
- Detailed calculation of greenbelt with breakup and dimensions and provision to increase the greenbelt minimum up to 20% as the proposal for 13% greenbelt is not acceptable.
- Ensure that the differences between the reduced level of the bottom of rainwater harvesting pits and the reduced level of ground water during rainy season are adequate for effective recharge of collected rainwater and submit the report for the same.

B. **The proposed site shall be visited by Sub-Committee of SEAC to verify the followings**

- Environmental settings of the project site.
- Construction activity, if any started at the site.
- Road connectivity to the project site.
- Drainage network at the site.
- Discharge point for discharge of treated water and distance of the discharge point from the project site.
- Any other issues including local issues.

20. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Details of width of fire corridor, service road, DG space etc.	The width of Fire Corridor is 6 meter and service road is also 6 meter. The location of DG space has shown in the drawing has been attached for your reference as Annexure -I .
2.	Possibility to explore separate ramps for entry and exit in parking area. Further, separate parking area for Hotel and Mall shall be explored.	We have separated the entry and exit in parking area for hotel guests, visitors and service which has been shown in the drawing has been attached for your reference as Annexure -I .
3.	Detailed drainage plan, internal drainage details, discharge point, drainage permission with supporting documents applied for NOC for drainage from concerned authority.	Detailed drainage plan with discharge point has been attached for your reference as Annexure-II .
4.	Certificate from the concerned DFO that location is not coming within Notified Eco-Sensitive Zone of	NOC from the DFO, Chandaka Wild Life Division has been attached for your reference as Annexure-III .

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	Chandaka-Dampada Wildlife Sanctuary.	
5.	Detailed calculation of greenbelt with breakup and dimensions and provision to increase the greenbelt minimum up to 20% as the proposal for 13% greenbelt is not acceptable.	Revised calculation of greenbelt with breakup has been attached for your reference as Annexure-IV . Total Plot area- 12140 Sq.m. Required Greenbelt @ 20% - 2428Sq.m. Proposed Greenbelt area- 2472.94 Sq.m. (@20.37%)
6.	Ensure that the differences between the reduced level of the bottom of rainwater harvesting pits and the reduced level of ground water during rainy season are adequate for effective recharge of collected rainwater and submit the report for the same.	The ground water level of RWH pit of rainy season and non – rainy season has been attached for your reference as Annexure-V .

21. The proposed site was visited by the sub-committee of SEAC on **08.08.2023**. Following are the observations of the sub-committee:

- a) PP and Environment Consultant were present at site and explained the project layout.
- b) No construction work started at the site.
- c) The site was having road at the both front and back side. The road at the entry side is the sub road having width of about 30 ft only. Although 200 ft road goes in front of it, but the same is connected at a distance and there is no direct access from the frontage of the site.
- d) Since the project is pure commercial, they were asked to show the provisional BDA approval, fire clearance etc. which they could not as they are yet to apply. Thus, the PP needs to submit the following documents before considering for EC. BDA provisional approval, Fire NOC, BMC NOC to connect the extra treated water to the adjacent drain, airport authority NOC, Firefighting measures provisions, Ground water permission.
- e) There is a high-tension tower situated at one corner, thus permission if required to be obtained from appropriate authority and submitted.
- f) Stack position to be placed in a manner to avoid smoke to the neighbouring hospital and residential community
- g) Information sought during presentation with regard to green belt, parking plan, DFO permission etc. need to be submitted.

22. The SEAC in its meeting dated 17-11-2023 decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	BDA provisional approval letter, NOC from BMC to connect the extra treated water to the adjacent drain	Provisional approval letter from BMC, Bhubaneswar has been attached for your reference as Annexure -I . The discharge of extra treated water to adjacent drain has been applied near BMC. Copy of Acknowledge has been attached for your reference as Annexure - I (a) .	-

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There is a high-tension tower situated at one corner, thus permission if required to be obtained from appropriate authority and submitted.

It has to be intimated you that the said tower position I out of our project layout area. As per the National building code of India we have left sufficient distance (more than 35 m) as per provision. The layout plan showing the distance of tower has been attached for your reference as **Annexure-II**.


Considering the information furnished and the presentation made by the consultant, **M/s Right source Industrial Solutions Pvt. Ltd, Hyderabad** along with the project proponent,

Whether SEAC recommended the proposal –Yes, the proposal was placed in the SEAC meeting held on 30.01.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – D** in addition to the following specific conditions.

- i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and /or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- iv) The proponent shall obtain permission from concerned Fire Safety Authority.
- v) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vi) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- vii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- viii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.
- ix) The proponent shall obtain permission from Water Resources department, Odisha for use of ground water.
- xiii) The PP will not commence construction unless the drain lay out is finalized and permission given for the same by the authority to discharge excess treated water & storm water.

Decision Of Authority: Approve

After detailed discussion in the matter, the authority decided to grant EC for a total built up area of 36830.99 sq. mtr with stipulated conditions as recommended by SEAC.


Member Secretary, SEIAA

APPROVED BY


Member, SEIAA


Chairman, SEIAA



PARIVESH I.O. AGENDA No.163.19

Proposal No.	SIA/OR/MIN/81576/2021
Date of application	28.03.2023
File no.	81576/101-MINB1/04-2023
Project Type	New EC proposal
Category	B1
Project/Activity including Schedule No.	I(a) Mining of Minerals
Name of the Project	Proposal for EC of M/s. Odisha Mineral Exploration Corporation Limited (OMECL) for production of Iron Ore 2.0 MTPA from Rengalbeda (NE) Iron Ore Block over M.L. area of 24,203 Ha. Village- Nuagaon & Gandhalpada, Tahasil- Barbil, District-Keonjhar of Sri Shailender Kumar Sinha (Director, Geology).
Name of the company/Organization	M/s. Odisha Mineral Exploration Corporation Limited (OMECL) Sri Shailender Kumar Sinha (Director, Geology)
Location of Project	Village- Nuagaon & Gandhalpada, Tahasil- Barbil, District- Keonjhar
ToR Date	28.01.2021
Name of the Consultant	M/s Visiontek Consultancy Services Pvt. Ltd., Patna

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s. Odisha Mineral Exploration Corporation Limited (OMECL) for production of Iron Ore 2.0 MTPA from Rengalbeda (NE) Iron Ore Block over M.L. area of 24,203 Ha. Village- Nuagaon & Gandhalpada, Tahasil- Barbil, District- Keonjhar of Sri Shailender Kumar Sinha (Director, Geology).
2. **Category:** The project falls under category "B" or activity 1 (a) - Mining of Minerals under EIA Notification dated 14th September 2006 as amended from time to time.
3. To ensure meeting the iron ore requirements of the end-use-industries, the State Government with the approval of Ministry of Mines, Government of India, communicated vide Letter No. 16/71/2020-MVI, dated 05.01.2021 has reserved the Rengalbeda (NE) Iron Ore Block over an area of 24,203 hectares in Barbil Tehsil, Keonjhar District in favor of OMECL, under section 17A (2) of MMDR Act 1957 vide Notification No. 946/SM, Bhubaneswar, dated 28.01.2021 by Department of Steel & Mines, Odisha.
4. **Letter of Intent:** The State Government of Odisha issued letter of Intent(LOI) vide Letter No. 2215/SM, Bhubaneswar, dated 26.02.2021 to Odisha Mineral Exploration Corporation Limited (OMECL) for grant of Mining Lease for Rengalbeda (NE) Iron Ore Block over an area of 24,203 hectares (as per DGPS survey) in village Nuagaon and Gandhalpada under Barbil Tehsil, Keonjhar District of Odisha State, for a period of 30 years.
5. Mining Plan with Progressive Mine Closure Plan has been approved by IBM vide letter No: MP/A/43-ORI/BHU/2020-21/dt. 09.04.2021 under Rule 16(1) of MCR, 2016 and Rule 23 of MCDR, 2017 respectively for a period of 5 years after execution of the lease deed for production of iron ore to the tune of 2.0 MTPA (RoM).
6. NOC from CGWA for drawl of ground water (60 KLD) vide ref. no. CGWA/NOC/MIN/ORIG/2022/16596 valid up to 30.09.2024. Application for allocation of surface water (120 KLD) from Dept. of Water Resources, Govt. of Odisha, shall be submitted prior to commencement of mining operation.

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7. Site Specific Wild-Life Conservation Plan (SSWLCP) is under preparation by Divisional Forest Officer, Keonjhar Forest Division based on the information submitted by OMECL vide letter no. 785/OMECL/2022 dt. 06.08.2022 with a copy to Divisional Forest Officer, Bonai Forest Division vide letter no. 786/OMECL/2022 dt. 06.08.2022

8. Application for diversion of 24,203 ha of forest land submitted by OMECL vide proposal No. FP/OR/MIN/142246/2021, dated 17.05.2021 is under examination by PCCF(Nodal) for onward recommendation for approval.

9. Statutory approval:

S. No.	Particulars	Status	Approval by	Letter No./Proposal No.	Date
Approvals obtained					
a)	Approval of the Central Government for reservation	Approved	Government of India Ministry of Mines	16/71/2020-MVI	05.01.2021
b)	Approval for the Land	Approved	Government of Odisha Steel & Mines Department	946-IV(B)SM-14/2020/SM	28.01.2021
c)	Letter of Intent	Approved	Government of Odisha Steel & Mines Department	2215-IV(B)SM-14/2020/SM	26.02.2021
d)	Approval letter for Mining Plan along with Progressive Mine Closure Plan (PMCP)	Approved under Rule 16(1) of MCR, 2016 & Rule 23 of MCDR, 2017	Indian Bureau of Mines	MP/A/43-ORI/BHU/2020-21	09.04.2021
e)	Ground water Clearance	Approved	Central Ground Water Authority (CGWA)	NOC No. CGWA/NOC/MIN/ORIG/2022/16596	Valid from-01.10.2022 Valid up to-30.09.2024
Approvals in Pipeline					
i)	Forest Clearance	Proposal at PCCF(N)	Central Government	FP/OR/MIN/142246/2021	17.05.2021
ii)	Site specific Wildlife conservation Plan	Plan preparation at DFO, Keonjhar	PCCF(WL) & CWLW	-	-

10. The proposed mine for extraction of Iron Ore is located in two villages namely Nuagaon & Gandhalpada, Tehsil- Barbil of Keonjhar District of Odisha granted over an area of 24,203 Ha. under which 17,034 Ha. is revenue forest land and 7,169 Ha. is non-forest land recorded as forest as on 25.10.1980 (SABIK).

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Village	Khata No.	Plot No.	Total Land Area (Ha.)
Gandhalpada	46	50/p, 52/364/p, 52/p, 49/p, 48/p, 51/p, 47/p	2.117
Nuagaon	60	395/572/p, 395/p, 389/566/p, 393/p, 390/p, 296/p	18.974
	62	397/p, 395/571/p, 390/568/p, 390/567/p, 396/p, 394/p, 389/p	3.112
TOTAL			24.203

11. **TOR detail:** SEIAA, Odisha authority issued Terms of Reference (Standard & Specific) for the proposed project Vide File No. 3015/SEIAA on dated 28th September 2021.
12. **Public hearing details:** Public Hearing in respect of Keonjhar district was conducted on 21.05.2022 at 11.00 A.M at Village Gandhalpada, G.P.-Guali, P.S.- Rugudih (Khata No. 48(AJA), Plot No. 194, Area- Ac. 1.150 dec) in Keonjhar District in accordance with the Ministry of Environment, Forest & Climate Change, Govt. of India, EIA Notification No. SO-1533(E) dtd. 14.09.2006. Issues raised in public hearing area employment, health care, rehabilitation, mines operation, welfare and pollution control measures. Cost of Public hearing compliances is allocated approx. Rs.100.45 Lakhs under CER. This cost will be continue based on public demand for future. All costing are done with terms of health, education, and infrastructure and environment protection.
13. **Location and connectivity:** The Project area is located between latitude 21° 57' 51.56" N to 21° 58' 09.73" N & longitude 85° 16' 03.72"E to 85° 16' 29.78" E and is covered by survey of India Toposheet No. F45H4, F45H8, F45N1, F45N5 (formerly 73G/5) in Villages Nuagaon & Gandhalpada, Tehsil – Barbil, District-Keonjhar in the State of Odisha. The mining lease area is approachable from Barbil town covering a distance of 26 km. The mining lease is connected by NH-215 (Panikoili- Rajamunda), which is passes through the lease area. Also, the area can be approachable from Koira -Rajamunda Road which is by the side of NH - 215 at a distance of 6 km. The District Head Quarters Keonjhar is at a distance of 85 km from lease area. The nearest railway station is Barbil railway siding which is 25 Km away from the Rengalbeda (NE) Iron Ore Block, Banspani Railway Station, which is 30 km away from the block, lying on Tatanagar - Barbil section of the South-Eastern Railway. Nearest river is Kuro Nadi at 1.23km. No National Park or Wildlife Sanctuary within 10 km radius. Nearest Reserve forest is Mendhamaruni RF – 2.12 km. Jharkhand - Odisha Interstate Boundary is at 5.19km.
14. The lease area does not form a part of any National Park or Wildlife Sanctuary or Critical Wildlife habitat. No protected area is situated in the lease area or within the Zone of Influence. The lease area is surrounded by a series of existing mines and no important wild animals are noticed in the area.
15. **Topography & Drainage:** The Lease area is generally a semi-rugged terrain with elongated hill trendings in NW-SE direction, low mounds and wide valleys. Maximum elevation - 594 m above MSL and Minimum elevation - 548 m above MSL.
16. Geometry of the ore body has been reconstructed using borehole intersection data with 100 m borehole spacing. Strike influence has been considered in most cases as 50 m on both the directions. Tonnage factor is considered as 3.5 gm/cc for high grade ore and 2.7 gm/cc for low grade ore. A factor of 20% is excluded towards accuracy in sampling. 100% recovery factor has been taken into account for estimation of reserve as the deposits are bedded stratiform and tabular of irregular habit with lateritic cap underlain by hematite jasper or shale. Some interbands of waste materials are also found.
17. **Life of Mine:** The production rate planned for the mine is 2.0 MTPA. Considering 16.3 Million Tonnes of probable category (UNFC code: 122), the expected life of the mine at the above mentioned rated capacity will be around 9 years including existing plan period. Further exploration will be proposed in the conceptual period to prove existence of mineralization beyond existing UPL. This will further add to resources thus will increase life of mine beyond lease period.
18. **Reserves and Mining:** Total Reserves - 2,72,82,778.96 Tonnes (Fe > 45%), 46,96,888.40 (Fe > 45% < 55%) and 2,25,85,890.56 (Fe > 55%). The annual production is targeted at 2.0 MTPA of ROM. The mine

is proposed to be worked by mechanized opencast mining method by engaging HEMM with deep hole drilling and blasting. The blasted ROM will be fed to a Crushing/Screening unit for further sizing and screening to CLO (-10-40/+5 -18mm) and fines(-10/-5mm). The output is to be sent to designated stack yards which will be sold to industries.

19. **Mining method:** The Rengalbeda (NE) Iron Ore Block is to be considered under Category-A (Fully Mechanized Opencast category) as per the IBM guidelines. The mine is proposed to be worked by mechanized opencast mining method by engaging HEMMs with deep hole drilling and blasting. Bench height & width are proposed to be 10 m and 15 m respectively. Average bench slope is proposed to be 70°-80°. Drill hole diameter is proposed to be 115 to 150mm. Blasting is proposed to be carried out with emulsion/slurry explosive. NONEL is proposed to be used to control ground vibration & better optimization in blasting. The blasted ROM is proposed to be fed to mobile crusher & screening plants for further sizing and screening to CLO (+10-40 / +5-18mm) and fines (-10/-5 mm). The output is to be sent to designated stack yards for selling in domestic markets. The production capacity envisaged for the mine is 2 million tonnes of ROM per year. Blast hole drilling are proposed by DTH drills of 115/150 mm dia. Single or multi row drilling with hole to hole delay are proposed. Proper charging, stemming and control blasting by using NONEL of different delay interval are proposed to reduce the ground vibration. Waste/ ROM material is proposed to be loaded into 25 - 35t capacity dumpers using 2.5-4.5m³ excavators which in turn is to be transported to dump yard or crushing & screening units. ROM after processing in crushing and screening plants is to be stacked in the designated stock yards within the lease hold area for selling to buyers. The output is to be sent to designated stack yards which will be sold to industries.
20. **Production Details:** The year-wise in-situ tentative excavation for the first five years from the date of opening of the mine is given as follows :-

Year	Quarry	Total Tentative Excavation	Top Soil	OB/SB/ID	ROM (M Cu. m)			ROM: Waste
					Ore	Mineral Rejects	Total ROM	CuM: CuM
								M CuM
1 st Year	Pit-1	0.81	0.00	0.02	0.53	0.26	0.79	1:0.02
Sub Total		0.81	0.00	0.02	0.53	0.26	0.79	1:0.02
2 nd Year	Pit-1	0.81	0.00	0.01	0.53	0.27	0.80	1:0.016
Sub Total		0.81	0.00	0.01	0.53	0.27	0.80	1:0.016
3 rd Year	Pit-1	0.67	0.00	0.009	0.65	0.01	0.66	1:0.014
Sub Total		0.67	0.00	0.009	0.65	0.01	0.66	1:0.014
4 th Year	Pit-1	0.80	0.00	0.003	0.79	0.01	0.80	1:0.004
Sub Total		0.80	0.00	0.003	0.79	0.01	0.80	1:0.004
5 th Year	Pit-1	0.69	0.00	0.004	0.66	0.03	0.69	1:0.006
Sub Total		0.69	0.00	0.004	0.66	0.03	0.69	1:0.006
Grand Total		3.78	0.00	0.046	3.16	0.58	3.74	1:0.012

21. **Bench Geometry:** In course of mining a single quarry having total 8 nos. of benches will be developed. The top RL of the bench will be at 580 m and bottom RL of the bench will be at 500m. ROM will be trucked to screen plant while waste will be trucked to the earmarked waste area. As there is overburden present in the proposed excavation area, all benches will be developed in the ore body. The waste generation due to removal of the inner burden will give rise to the average stripping ratio of 1:0.0046 M T / Cum during the modified plan period. The individual bench faces will be kept nearly vertical (70°-80°) whereas the overall quarry slope angle (the angle between the line joining the toe of bottom bench and the crest of the top bench with the horizontal) is/ will be maintained at less than 45° with the horizontal.
22. **Overburden Management:** A total of 0.1 Million CuM of wastes will be generated from entire Rengalbeda (NE) Iron ore Block up to conceptual stage. Out of the total 0.1 Million CuM of waste generated up to

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Conceptual, approximately 30% i.e. 0.03 Million CuM will be utilized for road formation, maintenance and bench formation and the remaining 0.07 Million CuM waste will be dumped at proposed dump location during the conceptual period. The OB dumps areas will be compacted and afforestation will be carried out on the terraces as well as along the slopes before rehabilitation. Topsoil being generated during mining shall be used for rehabilitation & also for avenue plantation.

23. **Waste generation and storage:** Cumulative quantity of 0.046 million m³ waste will be generated during the approved Mine Plan period. It will be stored in waste dumps over total area of 0.589 ha. Top & bottom of the dump will be 580 mRL & 500 mRL respectively. Retaining wall & garland drains along with settling pits will be constructed to protect the surrounding environment from wash-offs etc. and after that waste material shall be disposed of in a retreating fashion.
24. The garland drains will be dug around 1 m beneath the adjoining contour level at the lower peripheral areas of the dump. The width of the drains shall be around 1.5 m. A series of 3 settling pits along bottom of the dump of 10 m length, 10 m width and 3 depth will be provided to arrest the wash-off solid particles. The settling tank will be provided with two compartments each of around 5 m width to arrest the suspended solids. The retaining walls will be of 1.5 m height and 1.2 m width at the top and around 1.5 m at the base.
25. Total RoM of iron ore produced from the mine will be subjected to screening and crushing. The lumpy ore pregated in the screening process will be crushed and further screened to produce 0-10mm/ 0-5mm (Fines), 10-40 mm/ 5-18mm (C.I.O). The sized ore along with the generated fines will be stored in the earmarked stackyards.
26. A road connection from NH 215 to mineral processing & stacking yard at NE corner near OB dump will be made for this provision of approximate 300 m X 15 m concrete road has been planned with a budgetary provision of 30.0 Lakhs in EMP budget.
27. Transportation of iron ore has been proposed through 4 nos. of railway sidings such as Jurudi Railway Siding, Barbil Railway Siding, Barsua Railway Siding & Banspuri Railway Siding.
28. During the 1st and 2nd year of plan period, ultimate pit limit is 550 m AMSL. So, there will be no seepage during this period. The seepage will start from the 3rd year mining operation due to intersection of ground water table. Prior to the intersection, the dewatering permission shall be obtained from CGWA.
29. **Water requirement:** The total water requirement is about 180 KLD (For Drinking & Domestic Uses - 60 KLD and for Mining Operations, dust suppression and Plantation - 120 KLD). For Ground water abstraction of 60KLD, NOC has been obtained from CGWA vide no. CGWA/NOC/MIN/ORIG/2022/16596; which is valid from 01.10.2022 to 30.09.2024. For 120 KLD Surface water allocation shall be obtained from Dept. of Water Resources, Govt. of Odisha after obtaining E.C.

Year	Ground water(m ³ /year)	Surface water(m ³ /year)	Total Requirement (m ³ /year)	Mine Seepage (m ³ /year)	Reduction of consumption (m ³ /year)	% of reduction
1 st	21,900	43,800	65,700	0	65,700	0
2 nd	21,900	43,800	65,700	0	65,700	0
3 rd	21,900	43,800	65,700	189.02	65,510.9	1.0
4 th	21,900	43,800	65,700	4,487.70	61,212.3	0.93
5 th	21,900	43,800	65,700	9,022.47	56,677.5	0.86

30. **Rainwater harvesting:** Total Rainwater Harvesting potential is 10650m³/Year or 0.011 MCM. So % of recharge & rainwater harvesting potential is 10650/ 83647.75 x 100 = 12.73 %.

Sl. No.	Particulars	Area (m ²)	Run off Coefficient	Rainfall (m)	Rainwater potential (m ³ /Year)
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	Roof Top of building/ shed	90	0.85	1.561	119.42
(a)	Road/Paved area	16520	0.65	1.561	16762.02
c)	Open Land	179440	0.2	1.561	56021.17
d)	Green Belt	45890	0.15	1.561	10745.14
	Total (m ²)	241940			83647.75

31. **Power Requirement:** Power utilization for this project is 241 KW and DG sets of 125 KVA will be used for emergency backup. Power permission will be obtained from TP Northern Odisha Distribution Limited (TPNODL) after obtaining EC.
32. **Diversion of Transmission Power Line:** A 132 KV transmission line is passing through M.L area from OPTCL Grid Station (132/33 KV) at Barbil under Keonjhar district to Kamanda Steel Plant of M/s Rungta Mines Ltd. (RML) in village Kamanda in Sundargarh District. Out of 31.806 ha of approved forest land pertaining to transmission line of M/s RML, 1.551 ha comes within Rengalbeda Mining Lease of M/s OMECL. The high-tension power line passes through the M.L area, which may adversely affect the mining, hence, considering safety aspects, OMECL requested M/s RML for revision in the alignment of the transmission line. M/s RML issued NoC vide letter No. RML/KSP-466/417/22-23 dtd. 20.12.2022 in favour of OMECL, and also submitted forest diversion proposal (vide no. FP/OR/TRANS/408503/2022) by re-routing the transmission line outside the ML area to enable OMECL to use 1.551 ha of forest land for mining and ancillary purposes.
33. **Solar power detail:** Total Solar Power provision for the proposed project is $113 \times 50 = 5650$ W which is 6 KW. Percentages of Solar Power out of total Power save = $(6/241) \text{ KW} \times 100 = 2.48$ says 2.5%.
34. **Mode of transportation:** The proposed production of mine is 2.0 MTPA (ROM) corresponding to the production of 2.0MTPA Saleable Iron Ore. Therefore 70% of the dispatch i.e. 1.40 MTPA will be by public railway siding and maximum 30% of the dispatch i.e. 0.60 MTPA will be by road. Transportation of iron ore has been proposed through 4 nos. of railway sidings such as Juradi Railway Siding, Barbil Railway Siding, Barsua Railway Siding & Banspani Railway Siding.
35. **Traffic density study** conducted by NIT Rourkela for carrying capacity of road inside the mines and at haulage roads, intersecting points of haulage road with public road are covered in this EIA Report. From the findings, it is observed that the existing road network will be adequate to accommodate the additional traffic load and complied with IRC guidelines and LOS ranges from 'A - B'.

36. Greenbelt:

Year	Location	Area of Plantation (Ha)	No. of Saplings	Cost of Plantation	Location	Name of the Species
1 st Year	Between boundary pillar A to C	0.25	625	93750	Boundary Safety zone area	Neem, Mango, Chakunda, Sissam, Krishnachuda, Radhachuda, Shrubs
2 nd Year	Between boundary pillar C to D	0.28	700	105000		
3 rd Year	Between boundary pillar D to G	0.50	1250	187500		
4 th Year	Between boundary pillar G to A	0.55	875	131250		

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5 th Year	Maintenance			
Total	1.38Ha.	3450nos.	Rs.517.500	

37. Baseline details: Collection of the baseline data including Air, Water, Soil, Noise, Ecology & Biodiversity commenced between 1st October, 2021 to 31st December, 2021 covering Post-Monsoon season.

- a) **Ambient air quality:** PM10 varied from 43.7 to 94.2 µg/m³, PM2.5 from 22.7 to 50.3 µg/m³, SO₂ from 4.6 to 16.3 µg/m³, NO_x from 10.3 to 30.3 µg/m³ and CO from 0.16 to 0.67 mg/m³. Respirable free silica (%) ranged from 0.37 to 0.69.
- b) **Surface water analysis:** Surface water samples show slight variations in colour which values lies between 5 Hazen units to 25. pH value is consistent and lies around 7 with a maximum value of 7.5 (SW 7) to a minimum of 6.7 (SW 6). Dissolved Oxygen values ranges from 4.6 mg/l (SW 6) to 6.3 mg/l (SW 1). Turbidity varies from 6.7 (SW 4) to 24.5 (SW2) NTU. Chloride value ranges from 9.0 mg/l (SW1) to 22.0 mg/l (SW4). Total Dissolved Solids range from 29.0 mg/l (SW1) to 162.0 mg/l (SW4). Electrical Conductivity value ranges from 47.8 (SW 7) to 248.6 (SW 4) Oil and grease value lie below detectable level for all locations. BOD ranges from 2.0 mg/l (SW 5) to 2.8 mg/l (SW 6) & not detected in other locations. Higher value of BOD is due to anthropogenic activities. None of the heavy metals are detectable as well as neither are Phenolic compounds detectable in any of the samples. Total coliform values lie between 14 (SW4) to 47 (SW6).
- c) **Ground water analysis:** Groundwater samples are all within the acceptable limits with respect to colour. The odour and taste of groundwater is also agreeable. Turbidity values ranges from less than 1 (GW 7) to 4.92 (GW 3) NTU. pH values varies from 5.5 (GW 6) to 6.4 (GW 8). Total hardness varies from 12.0 (GW 2 & GW 7) to 78 (GW 6) mg/l. Chloride content varies 4.0 mg/l (GW 1 & GW 7) to 34.0 mg/l (GW 6). TDS values range from 14.0 (GW 2 & 7) to 143 (GW 6) mg/l. Calcium and Magnesium values are within permissible limits. Heavy metals and hexavalent chromium are all below detectable level. Aluminium and Boron are also not detectable in groundwater samples. Fe varies from 0.08 mg/l (GW 8) to 0.8 mg/l (GW 3). Total Alkalinity ranges from 6.0 mg/l (GW 6) to 29.0 mg/l (GW 8). Electrical conductivity values range from 59.4 (GW 8) to 61.2 (GW 4). Nickel, potassium, silica, and ammonia is not detectable in the study area
- d) **Noise study:** Project site (ANQ 6) at Rengalbeda village adjacent to NH-215 (Panikoiili- Rajamunda) road due to heavy vehicle movements shows the highest values (day time) in October, November & December is 60 dB(A), 61.3 dB(A) & 62.9 dB(A) respectively. The Second highest values (day time) of Ambient Noise is observed in N4, located school area (Nilachal High school, Guuli) which is situated Near NH- 215 (Panikoiili- Rajamunda Road) due to heavy vehicle movements in October, November & December is 56.2 dB(A), 55.6 dB(A) & 57.3 dB(A) respectively. In night time maximum value observed in in October, November & December is 52.1 dB(A), 53.2 dB(A) & 51.4 dB(A) respectively at ANQ 6 location due to heavy vehicle movement activities
- e) **Soil quality:** Soil samples were collected and analysed to obtain results for 20 parameters Conductivity values ranges from 33.2 (SQ2) to 119.7 (SQ5) µS/cm. pH value is varies 5.62 (SQ6) to 7.94 (SQ5). This indicates that the soil is neutral and lies between optimum range for most plants. Fe value is varies from 33.9, (SQ1) to 5.67 (SQ4) Percent. Bulk density ranges from 1.11 (S2) to 1.25 (S6) gm/cc. Clay is presence in all locations due to deep weathering profile in the area ranging up to 30 m in some locales. Also, compaction of soil is moderate, and porosity is varies from 38.11 (SQ1) to 58.11 (SQ2) percent. SiO₂ is varies from 51.4 (SQ4) to 55.7 (SQ1) percent.

38. Employment generation: The estimated total manpower requirement for the mining project is 366 persons [direct employment 130 persons + indirect (Contractual) employment 236 persons]. Preference for employment will be given to the local villagers. Indirect employment opportunities will also arise for the local people.

Category	Post	Qualification	Departmental	Contractual	Total
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Management	First Class Mines Manager	First Class Mines Manager's Certificate of Competency	1	-	1
	Second Class manager	Degree in Mining Engineering / 2 nd class mines manager certificate of competency	3	3	6
	Geologist	M. Sc. In Geology / Applied Geology	3	-	3
Supervisory	Engineer	Foremen's Certificate of Competency	3	9	12
	Foreman	Mate's Certificate of Competency	3	6	9
	Surveyor	Surveyor's Certificate of Competency	2	2	4
	Blaster	Blaster's Certificate of Competency	4	-	4
Highly Skilled	HEMM Operator	Experienced with a valid license	10	120	130
	Clerical staff	Graduate and experienced	20	20	40
Skilled	Mining Mate	Experienced with a valid license	6	6	12
	Other Supporting Staffs	Experienced with a valid license	10	20	30
	Others	Experienced	15	30	45
Un-Skilled	Security	Experienced	50	20	70
Total			130	236	360

39. **Rehabilitation and Resettlement (R&R) Plan** - The people residing in the lease area will be rehabilitated as per the State Govt. guidelines and the socio-economic study has been carried out by the organization empanelled by Nabakrushna Choudhury Centre for Development Studies (NCDS), Bhubaneswar Odisha. As per the survey conducted by Nabakrushna Choudhury Centre of Development Studies (NCDS), 16 families (13 original families and 3 extended families) residing in the forest land within mining lease area will be displaced for the project and the assistance will be as per the provisions of RFCTLAR&R Act, 2013 and Odisha Resettlement & Rehabilitation Policy, 2006.

40. **Project cost:** Estimated cost of project is Rs. 3804.66 Lakhs. CER cost total approx. Rs. 100.45 Lakhs. EMP budget includes total Capital Cost of approx. Rs. 108 lakhs and Recurring Cost of Rs. 75.5 Lakhs.

Sl. No.	Category	Capital Cost (in Rs. Lakh)	Recurring Cost (in Rs. Lakh)
1.	Water Pollution & Rain water Harvesting	40.0	12.0
2.	Air Pollution Controlling	16.0	5.0
3.	Green Belt Development	17.00	4.5
4.	Environmental Monitoring	15.0	48

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Safety & Disaster Management Plan	20.0	6.0
Total	108.0	75.5

41. There are no court cases or violation cases pending against the PP.
42. The Environment consultant M/s **Visiontek Consultancy Services Pvt. Ltd., Patia**, along with the proponent made a presentation on the proposal before the Committee on 03.05.2023.
43. The SEAC in its meeting dated **03-05-2023** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Entire land is forest land. Stage-I Forest Clearance is not obtained but applied for the same. Hence, present status of Forest Clearance.	During scrutiny of Forest Diversion proposal (No. FP/QR/MIN/142246/2021) by PCCE(N) for recommendation to Govt. of India for consideration of Stage-I FC, few observation has been sought and the same is under compliance by OMC.
2.	"Silt and Desilting" management with silt composition and periodic desilting SOP to be submitted as it was a specific issue raised during public hearing.	Standard operating procedure for Silt and desilting management is enclosed herewith as Annexure – 1 .
3.	Mitigation measures to prevent ground water pollution as there will be intersection in third year.	The detailed hydro geological study has been conducted by Geo Climate Risk Solutions Pvt Ltd. An accredited Agency by CGWA for Rengalbada (NE) Iron Ore Block. As reported in the study report, 25 m ³ /day will be generated from mine seepage during 5 th year plan period. The entire water will be utilized for green belt development, the relevant pages of the report depicting the same is enclosed herewith as Annexure – 2 .
4.	Tabulated form on different grades of ore, their utilization/non utilization, management and the quantity of waste generated and storage plan.	The different grades of ore proposed to be generated and their utilization along with quantity of waste generated and its storage plan is enclosed herewith as Annexure – 3 .
5.	Detailed note on explosive storage and blasting management and specific safety measures to be taken to avoid accidents as the National Highway is passing through the lease site.	There will be no storage of explosive within the mine site. Adequate measures shall be taken for control blasting and NONEL technology is proposed to be used to control ground vibration & better optimization in blasting. Safety measures proposed for NH-215 is detailed in the sheet enclosed herewith as Annexure – 4 .
6.	Issues raised during public hearing and commitments of the proponent.	The issues raised during public hearing and its commitment for fulfillment is enclosed as Annexure-5 .



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7.	Minor minerals ore analysis of the lease site according to the IBM guidelines.	The mineralogical and Chemical analysis of iron ore Sample as per the Geological Report of Rengalbeda (NE) Block conducted by Geological Survey of India is attached herewith as Annexure – 6 .
8.	Detailed note on presence of Hexavalent Chromium, Manganese, Arsenic and all other heavy metals in the ground and surface water samples collected from the project area for EIA study.	Ground water and Surface water samples collected within the study area found that the concentration of Hexavalent chromium, Manganese, Arsenic and other heavy metals are well below the prescribed standards. The copy of the baseline report is enclosed as Annexure – 7 .
9.	High Tension Power Transmission Line is passing within lease area; same to be relocated outside lease area as proposed. An undertaking to this effect shall be submitted.	Undertaking to the effect for relocating the high-tension power transmission line outside the lease area is attached as Annexure - 8 .
10.	i) A school is nearby; detailed SoP for safety of children of school due to transportation and blasting.	Adequate measures shall be taken for control blasting and NONEL technology is proposed to be used to control ground vibration & better optimization in blasting. Safety measures proposed for NH-215 is detailed in the sheet enclosed herewith as Annexure – 4 . Adoption of above safety measures shall take for safety of School Children due to transportation and blasting.
11.	Number of villages nearby the mine.	There are 2 nos. of villages nearby mines: 1. Gandhalpada (1.0 Km; E) 2. Nuwagan (1.3 Km; NE)
12.	Plan for water reuse / recycle for reducing water consumption for mining to be furnished.	Adequate care shall be taken as per the following for recycle and reuse of water for reducing the water consumption from source: 1. Sewage treatment plant shall be established and approx. 70-80% treated water shall be utilized for green belt development. 2. Wheel wash facility shall be installed with water re-circulation system. 3. Workshop effluent shall pass through oil & grease trap and the water free from oil & grease shall be utilized for dust suppression.

Considering the information furnished and the presentation made by the consultant **M/s Visiointek Consultancy Services Pvt. Ltd., Patia** along with the project proponent,

2. Whether SEAC recommended the proposal – Yes, the proposal was placed in the SEAC meeting held on 30.01.2024 and the SEAC recommended for grant of Environmental Clearance with stipulated conditions as per **Annexure – G** and following specific conditions. **However, the Environmental Clearance shall be issued by the SEIAA, Odisha after receipt of Stage-I Forest Clearance from the proponent as stipulated in MoEF&CC, Govt. of India office memorandum no. J-11013/41/2006-**

IA.II(I), dated 09.09.2011 and office memorandum no. J-11013/41/2006-IA.II(I), dated 18th May, 2012.

- i) The proponent shall utilize different grades of iron ore (ROM) and waste generated according to IBM guidelines.
- ii) The proponent shall carry out compensatory afforestation for the project site.
- c) The proponent shall adopt additional measures for dust suppression.
- d) Conversion of Gochar / Grazing land involved in lease area shall be made before going for mining activity.
- e) Rainwater harvesting structures shall be implemented.
- f) The EC is limited to secondary crushing and screening operations (dry process) as per approved mining plan. Under no circumstances, the lessee shall carry out any beneficiation activity (wet process) of low-grade ore.
- g) All the ores (45-55) and +55 grades shall be used and ores & rejects shall be transported as per approved mining plan for their use. Only temporary stacks shall be operated. The mine shall avoid segregation & generation of fines and flow of silt during rainy session.
- h) Green processes like Controlled drilling, Environment friendly blasting, safe transportation and conveying, silt-management shall be followed as per guidelines.
- iv) **NEERI recommendations particularly related to SOTM shall be complied at the earliest possible and an undertaking to that effect indicating timeline shall be submitted before start of operations.**

Decision Of Authority: ADS

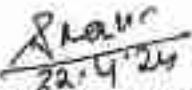
After detailed deliberation in the matter, the authority accepted the recommendation of SEAC and decided the following:

- i) The PP is required to submit Stage-I forest clearance for the forest area involve in the project as stipulated in MoEF&CC, Govt. of India office memorandum no. J-11013/41/2006-IA.II(I), dated 09.09.2011 and office memorandum no. J-11013/41/2006-IA.II(I), dated 18th May, 2012.
- ii) The PP is also required to submit site specific plan for SOTM compliance.


Member Secretary, SEIAA

APPROVED BY

Member SEIAA


22.4.24
Chairman, SEIAA

PARIVESH I.O, AGENDA No.163.20

Proposal No.	SIA/OR/MIN/404078/2022
Date of application	08.12.2022
File no.	404078/105-MINB1/06-2023
Project Type	New ToR proposal
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for EC Tantra Bauxite Mine with proposed excavation of 1000000 TPA of Bauxite having over an area of 106.138 Ha. Located at Village: Tantra, Sub-division- Bonai, District Sundargarh of Sri Prabhu Dayal Agrawal
Name of the company/Organization	Prabhudayal Agrawal
Location of Project	Village: Tantra, Sub-division- Bonai, District Sundargarh
ToR Date	NA
Name of the Consultant	M/s Green Circle, INC., Vadodara

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

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 the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference to obtain Environmental Clearance for Tantra Bauxite Mine with proposed excavation of 1000000 TPA of Bauxite having over an area of 106.138 Ha. Located at Village: Tantra, Sub-division- Bonai, District Sundargarh of Sri Prabhu Dayal Agrawal.
3. **Category:** As per the EIA Notification S.O. 1533, dated 14th September 2006 and subsequent amendments, this project falls under Category B1 (Minor Mineral Projects).
4. Originally the mining lease was granted in favour of Shri Prabhu Dayal Agrawal on 08.07.1991 over an area of 106.138 hectares or 262.271 acres for 20 years. But as per the Mines and Minerals (Development and Regulation) Amendment Act 2015 read with rule 66 of OMMC Rule 2016, the period of lease has been extended up to 20 years i.e., 07.07.2031 through Renewal Mining Lease Deed dt. 08.07.2011.
5. The Tantra Bauxite Mine is a Mining Lease area was executed for Mining of Bauxite ore in favour of Shri Prabhu Dayal Agrawal over an area of 106.138 ha. or 262.271 acres comes under village Tantra, Bundhal & Rengua in Koida Tahasil of Sundargarh District, Odisha.
6. The copy of representation letter no. Tantra/108 dt. 20.01.2023 received from Sri P.D. Agrawal to inform that the aforesaid mining lease was executed on 08.07.1991 for a period of 20 years in favour of Sri P.D. Agrawal. The term of a said lease expired on 07.07.2011. The lessee has filed 1st RML application on 16.03.2010 over the entire area for Bauxite, Iron & Manganese Ore under the provision of rule 24A (1) of MC Rules, 1960 in due time which is pending for disposal. The mining operation in the leasehold area was discontinued due to expiry of original lease w.e.f. 08.07.2011 & remained non-operational for continuous period of 2 years up to 07.07.2013 which attracts the provision of section 4A (4) of MMDR Act, 1957. As such the State Govt. declared the said lease as lapsed w.e.f. 07.07.2013 under section 4A (4) of MMDR Act, 1957 read with rule 28(1) of MC Rules, 1960 vide Govt. Proceeding No. 9625/SM dt. 29.09.2015.
7. The lessee preferred Revision application against the said lapsing order of State Govt., where in the Revisional authority set aside the impugned order of State Govt. dt. 29.09.2015 and directed the State Govt. to re-consider the lapsing in view of observations of Hon'ble Supreme Court of India in its order dt.04.04.2016 in WP(C) No. 114/2014 (Common Cause) which is being re- examined by the State Govt.

through personal hearing of the lessee. Moreover, under section 8A (3) of MMDR Amendment Act, 2015, the State Govt. have not extended the validity of lease period i.e. up to 07.07.2041. As such the said lease would be deemed to be consider as subsisting lease.

9. In pursuance to the judgment dt. 02.08.2017 of Hon'ble Supreme Court of India, the DDM, Koira has issued Demand notice vide his letter No. 4356/Mines dt.18.11.2021 to the lessee for payment of compensation amount of Rs.14,23,524/- under section 21(5) of MMDR Act, 1957 in violation for production of minerals show raised without lawful authority or in excess of the lower of approved limit under statutory clearance for the period from 2000-2001 to 2010-2011 in respect of the mine, which has already been paid by the lessee through e-challan on 03.01.2022.
9. The lessee has processed before the concerned authorities for obtaining of valid statutory clearances such as Mining Plan, Forest Clearance, Environmental Clearance etc. in respect of the mines which is pre-requisite for extension of the validity period of the said lease under section 8A (3) of MMDR Amendment Act, 2015.
10. As per the documents submitted by the lessee, 3rd meeting of Project Screening Committee of the proposals in respect of Tantra Bauxite Mine held on 18.01.2023 for processing as per F.C Rules, 2022 through VC, wherein the lessee was directed to file approval of Mining Plan online for FC. Approval of Review of Mining Plan without such clearance the extension of validity of lease period under section 8A (3) of MMDR Amendment Act, 2015 is not feasible.
11. Earlier, Terms of Reference (TOR) issued by MoEF & CC, New Delhi vide letter number J-11015/178/2009-IA, II(M) dated 19th August 2010 for undertaking mining operation in the lease area.
12. Consent to establish has been obtained from State Pollution Control Board, Odisha vide letter no. 1739/III-CON (NOC)-296/2009-10 dttd. 21.06.2011 and for 100 TPH crusher unit, Consent to Establish has been issued vide letter no.11459/IND-I-CON-5654 dated 20.07.2009.
13. Earlier, public hearing for renewal of mining lease and enhancement of Bauxite ore 1.2LTPA to 1.0 MTPA in production was conducted on 12.05.2011.
14. The present proposal for environment clearance is proposed for enhancement in production of bauxite from 3,786.75 TPA to 9,997.02 TPA from the lease area.
15. The entire area is DLC forest land having kissam - pahad as per land schedule.
16. **Location and connectivity:** Tantra bauxite mining lease area is situated in village Tantra of Bonai Tahasil in Sundargarh district, Orissa. The area forms a forest land. This area falls under Latitude $21^{\circ} 53' 46''$ N to $21^{\circ} 54' 33''$ N and Longitude $85^{\circ} 10' 18''$ E - $85^{\circ} 11' 10''$ E in the Toposheet no. 73 G/1. The total area of the mining lease is 106.138 Ha. The highest altitude of the area is 784.0 m from M.S.L and the lowest altitude is 643.1 M.S.L.
17. **Reserves and production:** The revised mineable reserve of useable bauxite in the lease area is 1,63,45,127 Mt. Keeping in view the production of bauxite @ 9,99,702 per annum, life of the mine will be 16.3 years or say 16 years after this modified scheme period.
18. **Mining method:** Presently the mining is being carried out by semi mechanized opencast method. However, with the existing proposal there is the planning for fully mechanized mining operation in the lease area. There is an existing 200 TPH crusher present in the lease area and proposal for installation of another 200 TPH crusher in the lease area. The crushing screening and sorting will be carried out within the lease area. The saleable bauxite will be raised and stacked near earmarked stack yard after being crushed as per the requirement. The usable refractory grade and steel grade bauxites will be transported by hiring trucks. The trucks will be loaded by pay loaders.
19. **Waste generation and management:** A quantity of $1884450m^3$ of swollen waste will be generated due to mining during the conceptual period. The waste generated during excavation will be utilized for mine road construction and other allied infrastructure and if required will be shifted to the proposed dump. At the end of the conceptual period a total area of 45.1175 hectare is to be degraded under mining. As no part of the lease area is getting exhausted, no backfilling proposal has been proposed in this scheme period.
20. **Water requirement:** Water requirement for the project is 15 KLD and will be met from ground water.

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21. **Greenbelt:** Till date 0.5 Ha. of plantation zone with 1000 saplings has been made within the ML area. Huge plantation has been carried out within the lease area i.e., along the Safety Zone, OB dump and dump Slope. During this monitoring period 1000 nos. of plantation has been done over an area of 0.5 Ha.
22. **Manpower:** Total 116 nos. of workers will be indirectly employed, and 30 nos. will be directly employed for mining of Bauxite ore in the lease area.
23. **Project cost:** The cost of the project will be 14 Crores.
24. **Environment Consultant:** The Environment consultant **M/s Green Circle. INC., Vadodara** along with the proponent made a presentation on the proposal before the Committee on 07.07.2023.
25. The SEAC in its meeting held on dated **07-07-2023** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Certified copy of the production limit set for the unit prior to 1994 and after 1994.	The authenticated Production prior to 1994 as well as after 1994 is attached as Annexure- 1 . Authenticated production since 1994 is Nil as mention in the DDM, Koira letter vide No.- 6820, Dtd.18.11.2017 is attached as Annexure- 2 .	Authenticated year wise Production details duly certified by DDM, Koira from year 2000-01 to 2010-11 is submitted.
2.	Certified copies of year-wise production details prior to 1994 and after 1994 from mining officer.	DDM, Koira letter showing production w.e.f. 2001 wherein production prior to 1994 is shown Nil. Hence the total production from 2001 has been demanded U/s 21 (5) of MMDR ACT. The same is attached as Annexure- 2 .	Authenticated year wise Production details duly certified by DDM, Koira from year 2000-01 to 2010-11 is submitted
3.	Copy of approved mining plan prior to 1994.	Not applicable.	
4.	Copy of letter of Steel and Mines Department, Govt. of Odisha to the lessee validating the grant of extension of the mining lease in favour of the lessee.	The DMG, Steel & Mine Department letter requiring Mining Plan EC & FC for extension. Vide letter no.- DMO-MCHMISC-0005-2023-2562 / DoMG, Dtd. 21.02.2023 is attached in Annexure- 3 .	In the above said letter it is mentioned that extension of the mining lease in favour of the lessee is not extended.
5.	The lease lapses in 2011 but, mining operation was continued after 2011 and concerned DFO stopped mining operation for not having Environmental Clearance and Forest Clearance. In pursuance to the judgment dt. 02.08.2017 of Hon'ble Supreme Court of India, the DDM, Koira has issued Demand notice vide his letter No. 4356/Mines dt.18.11.2021 to the lessee for payment of compensation amount of Rs.14,23,524/- under	Lease laps w.e.f. 07.07.2013. The said letter Vide No.9625, Dtd.29.09.2015 is attached in Annexure- 4 .	----

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	<p>Section 21(5) of MMDR Act, 1957 in violation for production of minerals show raised without lawful authority or in excess of the lower of approved limit under statutory clearance for the period from 2000-2001 to 2010-2011 in respect of the mine, which has already been paid by the lessee through e-challan on 03.01.2022. Justification that why it should not be considered as a violation case? With supporting documents of Notification along with the production figures.</p>	
6.	<p>Earlier, Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide letter number J-11015/178/2009-IA, II(M) dated 19th August 2010 for undertaking mining operation in the lease area. Earlier, public hearing for renewal of mining lease and enhancement of Bauxite ore 1.2 LTPA to 1.0 MTPA in production was conducted on 12.05.2011 and final EIA report was submitted to MoEF&CC, Govt. of India for Consideration of EC. Reason for non-consideration of EC by MoEF&CC, Govt. of India for the proposal at that time with supporting documents.</p>	<p>The EC can't be processed at MoEF & CC due to lapsing of mines w.e.f. 07.07.2013. The said letter Vide No.- 9625, Dtd.29.09.2015 is attached in Annexure-4.</p>
7.	<p>Copy of all Consent to Establish and Consent to Operate obtained from the Pollution Control Board, Odisha.</p>	<p>Copies CTE no:- 10082/Ind-II-NOC-5782, Dtd. 18.06.2015 & CTO letter no. 11459/IND-I-CON-5654, Dtd. 20.07.2009 are Annexure- 5 & Annexure- 6.</p>
8.	<p>Detailed note on history of the mine chronologically and details of statutory clearances obtained for operation of the mines.</p>	<p>Detailed note on history of the mine chronologically and details of statutory clearances obtained is attached in Annexure- 7.</p>
9.	<p>Supporting documents that the mining lease has not lapsed and is in name of Lessee. Copy of the extension of the mining lease from the Steel and Mines Department.</p>	<p>The DMG, Steel & Mine Department letter requiring Mining Plan EC & FC for extension. Vide letter no DMO-MCHIMISC-0005-2023-2562/DoMG, Dtd. 21.02.2023 is attached in Annexure-3.</p>
10.	<p>Receipt of Royalty paid (if any).</p>	<p>Royalty challan is attached in Annexure- 8</p>

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11.	Approved mining plan of Bauxite mine along with Cross sectional Sketch plan of Bauxite mine.	IBM Approved Cross sectional sketch map is attached in Annexure-9	submitted
12.	Current Status and supporting documents that the applicant has applied for Forest Clearance for the project.	FDP has been applied. The supporting documents are attached herewith as Annexure-10 .	Application submitted for Forest clearance on dated 15.02.2023 vide proposal no. sw/108381/2022.
13.	Details analysis of quantity and quality of bauxite present in mine.	Approved page No.- 09 of Mining Plan showing the quantity of reserve 16345127 Tones and NABL quality analysis report are attached as Annexure - 11 & Annexure - 12 respectively.	submitted
14.	Note on blasting management, slope study analysis and water management.	The details of blasting management at page no. 21, 22, 26 & 27, slope study analysis at page no. 19 and water management at page no. 09 (PMCP) are described in approved mining plan. The pages of approved mining plan attached herewith as Annexure - 13 .	submitted

26. The SEAC in its meeting held on dated **23-08-2023** decided to defer the proposal to next meeting as information submitted by the proponent requires more deliberation.
27. The SEAC in its meeting held on dated **17-11-2023** decided to take decision on the proposal after receipt of the following from the proponent: The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
i.	The DMG, Steel & Mine Department letter requiring Mining Plan EC & FC for extension, Vide letter no.- DMO-MCHMISC-0005-2023-2562 / DoMG, Dtd. 21.02.2023 indicates that extension of the mining lease in favour of the lessee is not extended. This has to be clarified.	The extension of 50 year lease period with effect from 07.07.2011 under 8(a)5 and 8(a)6 of MMDR Act is subject to compliance and statutory clearances. So the DoMG vide its letter Dtd. 21.02.2013 has sought statutory clearances. After statutory clearances the extension of lease period will be issued from the Steel and Mines Department under the said provision of law. The provision is for deemed extension lease period, which was granted prior to 12.01.2015 i.e date of amendment of MMDR Act. And which has to be followed on obtaining the statutory clearances only. Hence the mining plan as well as the EC and FC are the mandate of the Act.	---

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<p>i.</p>	<p>The lease lapses in 2011 but, mining operation was continued after 2011 and concerned DFO stopped mining operation for not having Environmental Clearance and Forest Clearance. In pursuance to the judgment dt. 02.08.2017 of Hon'ble Supreme Court of India, the DDM, Koira has issued Demand notice vide his letter No. 4356/Mines dt.18.11.2021 to the lessee for payment of compensation amount of Rs.14,23,524/- under section 21(5) of MMDR Act, 1957 in violation for production of minerals show raised without lawful authority or in excess of the lower of approved limit under statutory clearance for the period from 2000-2001 to 2010-2011 in respect of the mine, which has already been paid by the lessee through e-challan on 03.01.2022. You had been asked to justify as to why it should not be considered as a violation case? With supporting documents of Notification along with the production figures. No justification has been given in earlier letter.</p>	<p>We accept our project as a violation case. So no supporting document is applicable.</p>	<p>This will be treated as violation case.</p>
<p>iii.</p>	<p>Earlier, Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide letter number J-11015/178/2009-IA, II(M) dated 19th August 2010 for undertaking mining operation in the lease area. Earlier, public hearing for renewal of mining lease and enhancement of Bauxite ore 1.2 LTPA to 1.0 MTPA in production was conducted on 12.05.2011 and final EIA report was submitted to MoEF&CC, Govt. of India for Consideration of EC. You had been asked to give reason for non-consideration of EC by MoEF&CC, Govt. of India for the proposal at that time with supporting documents. In reply, you have intimated that the MoEF&CC, Govt. of India had intimated that EC can't be processed at MoEF &CC due to lapsing of mines w.e.f. 07.07.2013. In this connection</p>	<p>The lapse order vide No. 9625/IV(BX)SM- 181/2015/SM, Bhubaneswar, Dtd, 29.09.2015 w.e.f 07.07.2013 is set aside vide order Dtd, 11.05.2016 in RA No. 22/82/2015/RC-I by Ministry of Mines, Govt. India, New Delhi (as revealed in the para No.2 of the DoMG letter). Hence the DoMG directed vide letter No. DMO-MCIII-MISC-0005-2023-2562/DoMG, Dtd, 21.02.2023 to obtain the FC, Mining Plan, & EC, for extension of the mining lease.</p>	<p>-----</p>

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you have to justify how EC can be processed at SEIAA, Odisha due to lapsing of mines w.e.f. 07.07.2013 and extension of the mining lease has not been sanctioned in favour of lessee.

Whether SEAC recommended the proposal –Yes, the proposal was placed in the SEAC meeting held on 30.01.2024 and the Since, this is a **violation case as reported by the PP** in compliance report. Presently, the Hon'ble Supreme Court has stayed the operation of said OM of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. Hence, the proposal may be returned to SEIAA, Odisha for further action.

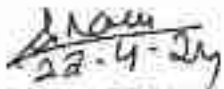
Decision of Authority: Rejected

After detailed deliberation in the matter, the Authority accepted the recommendation of SEAC, as this is a violation case as reported by the PP in the compliance report submitted to SEAC. In the meantime, the Hon'ble Supreme Court in W.P.(C) No. 1394/2023 titled Vanashakti Vs Union of India, has stayed the operation of both the Office Memorandum dated 7th July 2021 and 28th January 2022 issued by MoEF & CC, which has been communicated vide MoEF & CC OM No. F. No.-IA3-3/4/2024-IA.III [E 230791] dt. 08.01.2024. In view of this, the Authority opined that grant of EC/TOR in cases involving violation is not permissible. Hence, the application is rejected.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



PARIVESH I.O, AGENDA No.163.21

Proposal No.	SIA/OR/MIN/416336/2023
Date of application	25.04.2023
File no.	-
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC mining of stone from Bhutiabahal Stone Quarry-A over an area of 4.00 Acres or 1.618 Hectares in village Bhutiabahal under Balangir Tahasil of Balangir District.
Name of the company/Organization	Sri Niraj Agrawal
Location of Project	village Bhutiabahal under Balangir Tahasil of Balangir District.
ToR Date	NA
Name of the Consultant	NA

1. **Proposal in brief:** The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of stone from Bhutiabahal Stone Quarry-A over an area of 4.00 Acres or 1.618 Hectares in village Bhutiabahal under Balangir Tahasil of Balangir District.
- (ii) The mining area is a part of Survey of India Toposheet No. F44X6 (64P/6) and is bounded between the Latitude - 20° 35' 50.63"N to 20° 35' 56.08"N & Longitude 83° 20' 40.08"E to 83° 20' 46.05"E., Khata no. 243 Plot No. 1727, KISSAM-DUNGURI
- (iii) The mining lease is an identified sariat source in the DSR. The Bhutiabahal Stone Quarry-A sariat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Balangir to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, PFR, DLC, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes, of Rs. 1000/- vide e Challan Reference Id - 3594D84084 dt. 30.01.2023.
- (vii) Distance from nearest sanctuary/ESZ- Kotgarh WLS-86.6 Km
- (viii) Whether the lease area coming in DLC report-No, as certified by the Tahasildar, Balangir vide letter no. Nil dt. 25.01.2023
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-Manual
- (xi) Distance from nearest road bridge-1.70 km, village road -0.10 km
- (xii) Whether it is part of cluster -Yes, two other mines are i.e. Bhutiabahal Stone Quarry-A, Bhutiabahal Stone Quarry-B and Bhutiabahal Stone Quarry-C are coming under single cluster and total cluster area is 3.641 ha and submitted cluster EMP.
- (xiii) Whether EC obtained earlier-Yes, EC issued by DEIAA, Balangir vide letter no. Nil dt. 10.11.2017 and the PP has submitted EC compliance.
- (xiv) Date of approval of progressive mine closure plan- by the Joint Director Geology, Zonal Survey, Balangir vide letter no. 996 dt. 17.11.2022.
- (xv) Production capacity per annum-8100 cum/annum (max.), total production in 5 years period-40500 cum, Geological reserve-163728 cum and Mineable reserve-134662 cum.

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Whether the DSR has been prepared as per the MoEF& CC, Govt. of India Notification S.O. 3611(I) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020- No

The EMP budget provision of Rs. 3,37,500/- capital cost and Rs. 2,15,000/- recurring cost and Rs. 20,000/- per annum for village welfare activities.

(xviii) Any deficiencies/omission have been noticed in the above documents- Nil

2. Whether SEAC recommended the proposal –**Yes**, the proposal was placed in the SEAC meeting held on 06th & 07th March 2024 and the SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions.

- (i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.
- (ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured
- (iii) Plantation programme to be completed within first two years and to be maintained in remaining years.
- (iv) Depth of Mining as proposed should not be beyond 6m from the ground level.
- (v) Mitigation measures for flying Rock for safety be put in place.
- (vi) Stone quarry project proponent need to maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the stone quarry for ensuring that working personnel are not affected by silicosis.
- (vii) The boundary area of the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey superimposed on the cadastral map.
- (viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity.
- (ix) All removed topsoil to be stacked and used for plantation in the surroundings of mining area / post mine closure in the mined-out area.
- (x) All recommended precautions for blasting operations to be followed. Blasting to be done by DGMS approved agency. No explosives to be stored at the mining lease site.

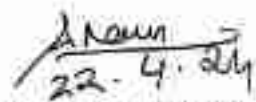
Decision Of Authority: Approved

After detailed deliberations, the Authority decided to grant **Environmental Clearance** subject to condition that no mining activity shall be carried out within a distance of 200 meter from the adjoining village road. EC shall be issued after submission of an undertaking by the PP to that effect.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


22.4.24
Chairman, SEIAA



PARIVESH 1.0, AGENDA No.163.22

Proposal No.	SIA/OR/MIN/424072/2023
Date of application	01.12.2023
File no.	424072/997-MINB2/12-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC mining of sand from Kulange Basti Sand Bed of an area 12.35 acres or 5.00 hectares Kulange Basti village under Bonai tahasil of Sundargarh district, Odisha
Name of the company/Organization	Sri Ghanshyam Agarwal M/s. Shree Balaji Traders
Location of Project	Kulange Basti village under Bonai tahasil of Sundargarh district, Odisha.
ToR Date	NA
Name of the Consultant	NA

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of sand from Kulange Basti Sand Bed of an area 12.35 acres or 5.00 hectares Kulange Basti village under Bonai tahasil of Sundargarh district, Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. F45M13 and is bounded between the Latitude - 21°48' 39.37" N to 21°48' 52.49" N & Longitude 84° 57' 51.40" E to 84°57' 57.99E.
- (iii) The mining lease is an identified sariat source in the DSR. The Kulange Basti Sand Bed sariat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Bonai to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 2000/- vide e Challan Reference Id no. 3369CA436C dt: 18.08.2022.
- (vii) Distance from nearest sanctuary/ESZ- Ushakothi WLS-68.0 Km
- (viii) Whether the lease area coming in DLC report-No N/A
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-Manual
- (xi) River-Behamani, Depth of sand deposition-1.5 meter, depth of mining-1.0 m
- (xii) Distance from nearest road bridge-0.50 km, village road -0.20 km
- (xiii) Whether it is part of cluster -No.
- (xiv) Whether EC obtained earlier-No.
- (xv) Date of approval of mining plan-the Joint Director of Geology, Zonal Survey, Sambalpur vide letter no.1481 dt.27.10.2021.
- (xvi) Production capacity per annum-25000 cum/annum (max.), total production in 5 years period-9000 cum, Geological reserve-75000 cum and Mineable reserve-63660 cum.
- (xvii) Whether the DSR has been prepared as per the MoEF & CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020- No
- (xviii) The EMP budget provision of Rs. 1.20%- Lakh/annum
- (xix) Any deficiencies/omission have been noticed in the above documents- Nil

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Whether SEAC recommended the proposal -Yes, the proposal was placed in the SEAC meeting held on 06th & 07th March 2024 and the SEAC recommended to grant EC valid from the date of EC accorded upto the lease period with specific conditions stipulated for sand mine with following additional conditions.

- (i) EC may be recommended for 60% of mineable reserve for 1st year till replenishment study.
- (ii) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.
- (iii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured.
- (iv) The boundary area of the deposit as per the updated DSR defined by geo coordinates based on DGPS survey be superimposed on the cadastral map.
- (v) Plantation programme to be completed within first two years and to be maintained in remaining years.
- (vi) The Project proponent shall follow Sustainable Sand Mining Guidelines, 2020.
- (vii) The proponent shall provide Bio-toilet for the workers.
- (viii) Project Proponent shall not disturb the water course during mining.

Decision Of Authority: Approved

After detailed deliberations in the matter, the Authority decided to **grant Environmental Clearance** with usual stipulated conditions as applicable for sand quarry.

- Maximum depth of mining 1.0 meter and maximum quantity of extraction shall be limited to **25000 cum in the 1st year and 6250 cum in the 2nd year** on adhoc manner from the date of issue of EC.
- The PP shall carryout the ARRS study in subsequent year through a NABET or ORSAC empanelled agency and submit to SEIAA, Odisha by March,2025.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and also as per the Hon'ble Supreme Court order vide its order dated 10.11.2021 in Civil Appeal Nos. 3661-3662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others).
- The Project Proponent (lease holder) shall deposit Rs.2,50,000/-, with the respective District Environment Society for raising 500 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of Rs.1.20 Lakhs/annum (Recurring Cost).

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA