

Minutes of 183rd Meeting of SEIAA, Odisha held on 23.12.2024

PARIVESH 1.0, AGENDA No.183.18	
Proposal No.	SIA/OR/MIN/407326/2022
Date of application	01.02.2023
State file no.	407326/316-MINB1/02-2023
Project Type	Fresh EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for Environment Clearance for production of 9000 Cum/annum of River Sand over Hathuripal Sand Quarry (ML Area 10.72ha) in Bramhani River Bed at village-Hathuripal, Tahasil-Talcher, District-Anugul, Odisha. Lessee- Tahasildar-Talcher Dist-Anugul, Odisha
Name of the company/Organization	Sri Tophan Mohanty.
Location of Project	village – Hathuripal, Tahasil –Talcher, District-Anugul, Odisha
Whether submitted scrutiny fee (Yes/No)	NA
ToR issue date	27.12.2021
Name of Consultant	M/s EHS 360 Labs Private Limited, Chennai

Proposal in brief:

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

1. This proposal is for environmental clearance for Haturipal Sand Quarry over an area of 26.50 acres or 10.72 ha is located in village Haturipal, Tahasil - Talcher in Angul district of Sri Tophan Mohanty.
2. **Category:** The project is categorized in Category-B under item 1(a)-Mining of Minerals in the EIA notification, 2006 and its subsequent amendments.
3. The Mining plan has been approved by The Joint Director of Geology, Zonal survey, Dhenkanal Vide letter no – 668, on dated 01.06.2020 in favour of Tahsildar, Angul.
4. The lease was granted to Mr. Tophan Mohanty being the successful bidder for tenure of 5(Five) years from the date on which this executed deed is registered.
5. **Public hearing details:** The Public Hearing meeting was held in respect of environmental Impact assessment of Hathuripal Brahamni Nadi Sand Quarry on 30.06.2022 at Hathuripal Matha of Talcher Tahsil of Anugul district. Issues raised were Dust suppression and Water Pollution Control, Afforestation Programme, Local employment opportunity, Provision for repair and maintenance of village roads, Strict adherence of sand mining guidelines, Supply of sand to the locals with reasonable price/free of cost, Speed restriction during school timing. The budget earmarked for the action plan is 16.10 lakhs.
6. **TOR details:** Terms of Reference (ToR) Issued by State Impact Assessment Authority (SEIAA) Orissa, Vide Letter. No. SEIAA/OR/MIN/65843/2021 dated 27.12.2021
7. **Location and connectivity:** Hathuripal Sand Quarry ML area 10.72ha. situated at Hathuripal village of Tahasil - Talcher of District-Anugul, Odisha. The lease area under reference featured in the Survey of India Topo sheet no. 73H/5 and is on Khata No. 83, Plot No.100/343, Kissam- Nadi. The geo coordinates of the lease area is 20°53'24.78"N to 20°53' 58.65"N 85°15'19.39"E to 85°15'29.97"E. The area is located 3.0 km from District Headquarters Talcher and 100 Km from State Capital Bhubaneswar. Nearest railway stations is at Talcher railway station at an distance of 4.0Km. The lease area can be approached from NH:53 & NH:149 at a distance of 2 Km. Nearest Airport is Bhubaneswar Airport which is at a distance of 100Km.
8. **Replenishment report:** The replenishment of Sand has been calculated by volumetric survey method.

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Amount of sand Replenishment within the quarry area is 10368 Cum/annum & proposed production is 14400cum/annum as mentioned in Replenishment Study Report i.e. approx. 72 % replenishment can be done. Therefore, the areas for sand exploitation within the lease area has been divided into two zones, one for First-Third-Fifth years' mining and the other for Second-Fourth years' mining. In the applied lease area replenishment depends upon the rainfall, if adequate amount of sand will not replenish during monsoon, then excavation of sand will be limited to the quantity which will be equivalent to the replenished material up to a depth of 0.3-0.4 mtrs.

9. **Reserves:** As estimated, the proved geological reserve of River Sand is 84640Cu.m and proved mineable reserve is 45430Cu.m. During the plan period, a total of 45000cum (saleable) River Sand will be produced as per the mining plan.
10. **Mining method and production:** Total lease area is 26.50 acres(10.72ha) of non- forest Govt. land of "Nadi" kism and the lessee is going to work within the said area for plan period of five years with a total production of 45000Cu.m of River Sand @ 9000 Cum/annum. Mining shall be done by open cast Manual method and transportation through dumpers and tractors. The mineral extraction will be done for a period of 200 days in a year. The Lessee has a proposal to transport of sand is by Tractors/Dumpers of 8-10 tonnes capacity
11. **Water requirement:** Total water approx, 5 KLD will be required for different purposes like Domestic, Dust suppression, plantation purposes & sourced from facility of Govt. Water Resource.
12. **Power/fuel requirement:** The power required for the office is minimal, shall be taken from the General Electric supply of the area. However, if required for lighting in the project area at night power will be sourced from State Grid and for same it is estimate as 1.0 KVA. 0.012KLD diesel is required as fuel.
13. **Baseline study:** Baseline information with respect to Land, Water, Air, Noise, Biological and Socio-economic quality status in the study area were collected by conducting primary sampling / field studies during winter season Dec,20-Feb 2021.

Ambient Air Quality

PM10 ranges within 71.0-39.0 $\mu\text{g}/\text{m}^3$, P 2.5 ranges within 38.0-13.0 $\mu\text{g}/\text{m}^3$, SO₂ ranges within 7.3-4.1 $\mu\text{g}/\text{m}^3$ & NOx ranges within 14.7-8.4 $\mu\text{g}/\text{m}^3$.

The parameters monitored at the project area as per NAAQ standards are found to be within limits. It may be observed that all parameters at all stations are well within the limits prescribed by Central pollution control Board.

Noise Levels

- a) Day time noise levels were varying from 51.40 dB(A) and 40.00 dB(A)
- b) Daytime noise levels varied from 39.2 dB(A) to 30.0 dB(A)

Surface water

- a) The pH value ranges from 6.98 to 7.56 and within the limits (6.5 – 8.5) of IS 2296:1992.
- b) The sulphate content in the collected surface water ranges from 7.4 mg/l to 9.4 mg/l.
- c) The chloride content in the collected surface water sample ranges from 10.7 mg/l to 16.3 mg/l. DO of the collected surface water sample ranges from 6.3mg/l to 7.0 mg/l.
- d) BOD of the collected surface water sample ranges from mg/l to 2.1 mg/l.

Ground water

- a) The ground water results of the study area indicate that the pH range varies between 6.98 and 7.74
- b) The Total Dissolved Solids range is varied between 49 mg/l – 74 mg/l for the ground water.
- c) The chloride content in the ground water for study area ranges between 1.4 mg/l – 2.6 mg/l.
- d) The sulphate content of the ground water of the study area varies between 1.6 mg/l – 2.5 mg/l.

Soil quality analysis

- a) Soil Samples collected from 5 identified locations indicate the soil is Sand Loamy type and

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the pH value is ranging from 6.21 to 7.11.

- b) Nitrogen content ranged from 0.042 mg/Kg to 0.084 mg/kg and Phosphorous ranged from 0.018 Kg/Ha to 0.034 Kg/Ha.

14. **Greenbelt:** About 7500 saplings of local species will be planted under the green belt (safety zone) and non-mineralized area for five years.

S. No.	Saplings to be planted	Budget in INR	Species	Place of Plantation
1	2500	90000	Neem, Peepal, Mango, Shisham, Sirish, Babool, Chakunda	Along the lease approach roads, schools and public buildings in Sirigida village and if any social forestry programme will be provided the contribution
2	2500	90000		
3	2500	90000		
4	Maintenance	20000		
5	Maintenance	20000		
Total	7500	3,10,000		

15. **Manpower requirement:** Total manpower requirement for the proposed project is 13 nos (For supervisor & statutory person 1 nos of person, skilled labourers (operator & helper) 3 nos of person, semi- skilled labourers 3 nos. & unskilled labourer 6 nos). Indirect manpower requirement is 10 numbers of persons.

16. **Project cost:** The cost of project is 30.0Lakhs. EMP capital cost of the project is 16.10Lakhs(capital) and recurring cost is 6.15Lakhs/Annum.

17. **Environment Consultant:** The Environment consultant M/s EHS 360 Labs Private Limited, Chennai along with the proponent made a presentation on the proposal before the Committee on 03.03.2023.

18. The SEAC in its meeting held on 03-03-2023 dated recommended the followings:

A) The proponent may be asked to submit the followings for further processing of EC application;

- Benchmark details and layout of replenishment study.
- In Replenishment Study Report, 14400cum/year is the approved capacity mentioned whereas in mining plan 9000cum/year is proposed. Which is correct? This shall be clarified.
- Land break-up such as water, rocks & sand area details.
- In DSR and Lease Document, Plot No. & Khata No. are mis-matching. This has to be clarified.
- Cadastral certificate from Tahasildar showing lease area.
- Road connectivity to the site with Map.
- Distance from road bridge.
- KML file shows the lease area is surrounded by water with small sand deposit, this has to be clarified.
- KML file also shows the site is stony area and rocky area, this has to be clarified.

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

- Actual sand deposit in the lease area & water deposit surrounding the lease area as shown in KML file.
- Environmental settings of the lease area.
- Mining activity, if any carried out in the lease area.
- Road connectivity to the lease area.
- Distance of the bridge from the boundary of the lease area.
- Cluster approach if any.

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19. 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
a)	Benchmark details and layout of replenishment study.	Benchmark details with layout updated in the replenishment report. Replenishment report is attached as Annexure-1 .
b)	In Replenishment Study Report, 14400cum/year is the approved capacity mentioned whereas in mining plan 9000cum/year is proposed. Which is correct? This shall be clarified.	In the replenishment report the approved capacity mentioned as 14400 cum/year is nothing but 14400 Metric Ton/year (considering the tonnage factor 1.6 i.e. 9000 cum x1.6 = 14400 Ton). In the Mining Plan the annual production is mentioned as 9000 cum/year. So please consider the annual production as 9000 cum. Replenishment report is attached as Annexure-1 .
c)	Land break-up such as water, rocks & sand area details.	Map showing the Land use break up details is attached as Annexure – 2 .
d)	In DSR and Lease Document, Plot No. & Khata No. are mis-matching. This has to be clarified.	There may be typographical error in DSR. As per the Lease document Khata No. is 83, Plot no is 100/343.
e)	Cadastral certificate from Tahasildar showing lease area.	Authenticated cadastral Map showing the lease area is attached as Annexure-3 .
f)	Road connectivity to the site with Map.	The Mine connected to NH-149 at Nuagaon through PWD road. Map showing the road connectivity is attached as Annexure-4 .
g)	Distance from road bridge.	The distance from mines to nearest bridge is 2.92 km. Map showing the distance from mines to bridge is attached as Annexure-5 .
h)	KML file shows the lease area is surrounded by water with small sand deposit, this has to be clarified.	After verification of KML file and further mapping it is to be clarified that the potential mining area is coming 4.50 Ha i.e. 41.97%, water area is coming 2.15 Ha i.e. 20 % and stony area is 3.70 Ha i.e. 34.51%. Considering half the of the sand deposit area i.e. 2.25 Ha out of 4.50 Ha we can achieve the targeted production 9000 Cum/Annum easily. (22500 m ² X 0.4 average thickness of sand = 9000 cum/annum). Google Map showing potential sand deposit area is attached as Annexure-6
i)	KML file also shows the site is stony area and rocky area, this has to be clarified.	After verification of KML file and further mapping it is to be clarified that the potential mining area is coming 4.50 Ha i.e. 41.97%, water area is coming 2.15 Ha i.e. 20 % and stony area is 3.70 Ha i.e.

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34.51%.

20. The SEAC in its meeting held on dated **03-05-2023** decided to take decision on the proposal after receipt of the following from the proponent followed by a site visit of the Sub-Committee of SEAC.

21. 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.	Compliance of the PP that there may be typographical error in DSR as far as plot no and khata no mismatch is concerned is not acceptable. It needs to be certified by the authorities approving the DSR and necessary corrected copy of DSR duly approved should be submitted.	The said Haturipal Sand Quarry over an area of 10.72 Ha, at Haturipal, Tahasil: Talcher, Dist: Angul, Odisha of Sri Tophan Mohanty is at Khata no-1 and plot no 34. The same is mentioned in the approved revenue map and revised DSR report. (Attached)	submitted

22. The proposed site was visited by the sub-committee of SEAC on **07.08.2023**. Following are the observations of the sub-committee:

- i) The Additional Tahasildar, Talcher and his associated staff; and the project proponent were present at the site.
- ii) A new bridge across Brahmani River, adjacent to the existing one, is under construction. It was observed that the construction agency has diverted the water channel to the western bank of the river, for the convenience of construction of the bridge; and the sand deposit is currently under water. As a result, it is estimated that some amount of sand must have been washed out due to the high velocity of water flow.
- iii) It was also observed that a part of the lease is rocky terrain.
- iv) It was learnt that another mining lease which is in Dhenkanal district, is in operation adjacent to the current lease. It is estimated that the distance between the two leases is less than 500m. This needs to be verified and if found correct then the project proponent has to apply for EC under cluster approach.
- v) However, if the distance is more than 500m, then the following is recommended:
- vi) In due course, the river channel will be normalized by the bridge construction authority. It is recommended that the project proponent be permitted to mine the replenished amount of sand ascertained after monsoon and after restoration of the water channel by the bridge construction authority.
- vii) It is also recommended that the transport vehicles will be covered with tarpaulin to minimize dust/sand particle emissions.
- viii) No natural water course shall be obstructed or diverted for the purposes of sand mining.
- ix) The location of the village being close to the quarry, the project proponent shall ensure that the biological clock of the villagers is not disturbed. The floodlights should be oriented away from the villages and the noise levels should be kept within the prescribed limits for day light/night hours.
- x) The project proponent shall take adequate measures for protection of the river bank from soil erosion.

23. The SEAC in its meeting held on dated **18.08.2023** decided to take decision on the proposal after receipt of the following information / documents from the proponent as desired by the Sub-Committee of SEAC during site visit:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	It was learnt that another mining lease which is in Dhenkanal district, is in operation adjacent to the current lease. It is estimated that the	The distance between sand quarry in Dhenkanal district and the sand quarry at Haturipal under Talcher Tahail of Angul district is	-----

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distance between the two leases is less than 500m. This needs to be verified and if found correct then the project proponent has to apply for EC under cluster approach. Tahasildar may be asked to provide information on this.	approximately 600m. The same has been intimated to your good office by DDM, Angul vide its letter dated 19.10.2024.	
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1. Any deficiencies/omission have been noticed in the above documents-Not upload the ToR copy

2. **Whether SEAC recommended the proposal –Ye**, the proposal was placed in SEAC meeting held on 06.11.2024 and Considering the information / documents furnished by the proponent and presentation made by the consultant M/s EHS 360 Labs Private Limited, Chennai, the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – B** in addition to the 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 – C**.
- ii) Sand extraction shall be limited to quantity and depth as per replenishment study report for only the first year of mining. Regular replenishment study as per guidelines to be conducted and report to be submitted.
- iii) Provision of Bio-toilet shall be made at the site.
- iv) 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) PP shall start mining only after obtaining a certificate from Bridge Construction Authority regarding normalization of water channel with the date of normalization of the channel.
- vii) The transport vehicles will be covered with tarpaulin to minimize dust/ sand particle emissions.
- viii) No natural water course shall be obstructed or diverted for the purposes of sand mining.
- ix) The location of the village being close to the quarry, the project proponent shall ensure that the biological clock of the villagers is not disturbed. The floodlights should be oriented away from the villages and the noise levels should be kept within the prescribed limits for day light/night hours.
- x) The project proponent shall take adequate measures for protection of the river bank from soil erosion.

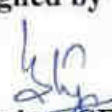
Decision Of Authority: Approved

After detailed deliberation, the authority approved the EC with standard and specific conditions with the following additional condition.

- The extraction of sand shall be limited to 10366 cum per annum for the 1st year and 2nd year with average depth of 0.4 meter.
- The Annual Rate of Replenishment Study (ARRS) is to be conducted through ORSAC empanel agency or NABET Consultant as per the prescribed guidelines and the PP shall submit the report latest by 31st December, 2026. *TEB*

Signed by


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA

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PARIVESH 1.0, AGENDA No.183.21	
Proposal No.-	SIA/OR/MIN/299991/2023
Date of application	11.05.2023
State file no.	37642/01-MIN -V/06-2019
Project Type	Amendment of EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for Amendment Environmental Clearance of M/s. Jindal Stainless Limited for Jindal Chromite Mines (ML Area 89.00ha) located in the village Kaliapani, Tahasil-Sukinda, District - Jajpur of Sri Sabyasachi Mohapatra.
Name of the company/Organization	M/s. Jindal Stainless Limited Sri Sabyasachi Mohapatra.
Location of Project	village Kaliapani, Tahasil-Sukinda, District - Jajpur
Whether submitted scrutiny fee (Yes/No)	NA
ToR issue date	NA
Name of Consultant	Nil

Proposal in brief:

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

1. This proposal is for amendment Environmental Clearance of M/s. Jindal Stainless Limited for Jindal Chromite Mines (ML Area 89.00ha) located in the village Kaliapani, Tahasil-Sukinda, District - Jajpur of Sri Sabyasachi Mohapatra.
2. **Category:** As per the EIA notification 2006, and its subsequent amendments, proposed project falls in category B under schedule of Item 1(a) Mining of Minerals.
3. **Statutory clearance details:**

Sl. No.	Approval	Letter No	Valid till
i)	Mining Plan Approval	BBS/JJP/CR/2174/MPM/2022-23, Date:17.08.2022	31.03.2026
ii)	Environment Clearance approval	EC22B001OR115726, date:04.04.2022	03.01.2052
iii)	Forest Clearance approval	8-68/2000-FC, Date:20.04.2023	03.01.2052
iv)	Consent to Operate	5413 IND-I-CON-2562, Date:31.03.2023	31.03.2024
v)	CGWA permission for drawl of water for 48 KLD for domestic consumption	CGWA/NOC/MIN/REN/1/2023/7562 Date:28.03.2023	22.02.2025
vi)	DGMS permission for CBM	180050/SEZ/BBSR Region/Perm/2022/ Date:06.06.2022	238108, Till completion of CBM

4. **Amendment justification:** Amendment is sought for incorporating opencast mining operation and

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allied activities in the 7.5 mtr. of Safety Zone area inside JSL lease (sharing Common Boundary between JSL and TSML) in addition to the opencast mining. It may be noted that the mining will be restricted within JSL lease hold area only. Due to the above said operations there will be no change in production capacity and no change/ increase in Mining Lease area and hence; no increase in pollution load. JSL has made MoU with TSML and BAL for Common Boundary mining in the Safety Zone area of JSL, for which DGMS permission and Mining Plan approval from IBM have already been obtained. Hence the project proponent proposes to carry out Mining operation and allied activities in the 7.5 mtr. Safety Zone area, inside JSL Lease near common boundary with TSML (i.e. Western boundary of JSL and Eastern boundary of TSML) along with existing provision of common boundary mining with BAL as well as development and production from Quarry 1 & 2 in line with the approved Mining Plan and EC. As per the present approved Mining Plan the total Mineable Reserve is 3.81 Million Tonnes as on 01.04.2022. Around 0.6 Million Tonnes of Chromite Ore is locked up in the benches within 7.5 m of safety zone of mine lease area, which can be extracted by the JSL. Therefore, the company is requesting for the amendment in the Existing Environmental Clearance dated 04.04.2022.

5. **Mine lease:** The mining lease over 89.00 ha. in village Kaliapani & forest block - 27 for chrome ore was executed on 4.1.2002 for 20 yrs i.e. from 4.1.2002 to 3.1.2022. As per section 8A (3) of MM(D&R) Amendment Act 2015, the lease period has been extended for a period of 50 yrs i.e. up to 03.01.2052 (with effect from 04.01.2002) and the supplementary lease deed for extended period has been executed on 08.06.2022.
6. **Mining/Project details:** Mining shall be carried out within 7.5m of the boundary (common with TSML) as per the MOU signed with between M/s. Tata Steel Mining Ltd. (TSML). For this all necessary regulatory approvals to excavate locked up Chromite Ore have already been obtained. TSML & JSL will abide by the guidelines and conditions laid down by the regulatory authorities.
7. Permission under Regulation 111(3) of the Metalliferrous Mines Regulations, 1961 to work within 7.5m of the common boundary between Sukinda Chromite Mine of TSML and Jindal Chromite Mine of JSL has already been obtained from Directorate General of Mines Safety, (DGMS) vide letter no. 180050 SEZ Bhubaneswar Region, Perm/2022/238108 dated 06.06.2022, along with approved Mining Plan by Indian Bureau of Mines.
8. **Location and connectivity:** Jindal Chromite Mine is located at village Kaliapani, Sukinda Tehsil, Jajpur District, Odisha. The Mining Lease falls within the Latitude – 21° 01' 04.39824" to 21° 02' 03.53184" (N) & Longitude – 85° 45' 18.17352" to 85° 46' 31.69704" (E). It falls on Survey of India Topo Sheet No - F 45 N16. The nearest rail head is TOMKA, which is about 30 km from the Mine lease area. National Highway (NH-200) passes at a distance of 30 km from the lease area; Jajpur district head quarter is about 85 km from the area.
9. **Topography:** The Chromite lease area of JSL is situated in Sukinda valley, with Mahagiri hill range on the southern side is largely covered with alluvium and thick horizons of laterite. The valley lies between the Mahagiri hill (707.69 m) on the south side and Daitari range (782.42 m) on the north side. The area exhibits peneplained topography, marked by linearly disposed mounds of low relief. The maximum elevation in the area is 310 MRL on the southern side, while the minimum elevation is 116 MRL on the north-west portion of the area. The overall slope of the area is from SE to NW.
10. There is no national park, wild life sanctuary, national monuments or places of interest for tourist existing in the lease hold area as well as in buffer zone, as per DFO, Cuttack Forest Division vide memo no. 2198 dated 27.4.2010.
11. **Reserves:** Total Mineral Resource (Geological Reserve & Resources) is 11.246 Million tonnes and Minalable Reserve is 3.8157 Million tonnes.
12. **Production Capacity:** As per existing Environment Clearance (EC22B001OR115726 date 04.04.2022 by SEIAA, Odisha) production capacity is 0.215 MTPA along with 60000 TPA from COBP.
13. **Proposed Mining Method:** The existing opencast mechanised mining method shall be continued for Common Boundary Mining in the safety zone area in Band – 1 (Quarry -1) with M/s Tata Steel Mining Limited & M/s Balasore Alloy Limited. Mining in Quarry-1 and Quarry-2 within the ML area shall

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continue, additionally.

Band- 1 (Quarry – 1)

- Mining shall be carried out in safety zone area on a common development programme with adjacent mine of Tata Steel Mining Limited & Balasore Alloy Limited. Both lessees (M/s TSML & M/s JSL) have obtained the permission from concerned regulatory authorities.
- The ore will be excavated in safety zone along common boundary, following safe and scientific mining method keeping in view the conservation and optimum utilisation of minerals.
- The depth of working in Safety Zone area along Common boundary adjoining with M/s TSML will be up to 25 mRL and top being at 140 mRL will be depressed by 115 m.
- The depth of working in Safety Zone area along Common boundary adjoining with M/s BAL. will be up to 32 mRL and top being at 140 mRL shall be depressed by 108 m
- There is no top soil in the proposed mining area. However, if top soil is found elsewhere during the course of mining, will be stored and used for plantation purpose.

Band VI (Quarry – 2)

- The floor of the quarry has reached the 122 mRL.
- As per Modification of Mining Plan, mining will be carried out till the ultimate Pit Limit is reached by opencast method of mining. Backfilling and reclamation will be done once the UPL is achieved, with overburden/waste generated from Quarry-1 and Quarry-2 during process of mining.

14. Existing mining method:

Sl. No.	Particulars	Band – I (Quarry-1) (Common boundary mining with TSML & BAL)	Band VI (Quarry -2)
i)	Method of mining	Open cast mining : Fully Mechanised	Open cast mining : Fully Mechanised
ii)	Type of ore	Friable chromite ore with intermediate waste and overburden comprising of laterite , silicified chert and ultramafics etc.	Lumpy chromite ore with intermediate waste and overburden comprising of Quartzite and ultramafics etc.
iii)	Means of raising	Excavator and dumper combination	Excavator and dumper combination
iv)	Bench height and width	Height of the benches are maximum 8m each with minimum 8 m width	Height of the benches are 8m each with width 12m
v)	Overall slope angle	< 35 ⁰	< 35 ⁰
vi)	Size/co-ordinate/floor mRL	Present Quarry-356m X 305 m /E-371806,S-2325734,Top 153 mRL& bottom 57 mRL. Back filled area – 280 m X 230 m/558S to 850S – 800E to 1120E,Top 160 mRL& bottom 70 mRL The common boundary mining will be done from 140 mRL to 25 mRL with TSML and from 140mRL to 32mRL with BAL.	Present Quarry – 305 m X 370.5 m/ E-372505, S-2324908, top 305 mRL& bottom 122mRL.

15. **Water requirement:** Total water required for the proposed project is 815 KLD (48 KLD = ground water + 767 KLD = Mine quarry accumulated water).

16. **Power requirement:** For the proposed project, power requirement is 650KVA.

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17. **Manpower:** 395 nos. of persons will be employed for the proposed project
18. **Project cost:** The project cost is Rs. 1900 lakhs. This is not a green-field project. So, 1% of the capital investment has been estimated towards CER and Rs. 19.00 lakhs per annum will be spent.
19. The proponent made a presentation on the proposal before the Committee on 13.06.2023.
20. The SEAC in its meeting held on dated **13.06.2023** 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
i)	Submit the Forest clearance to carry out mining in safety zone and further plan for compensation for any kind of damage to the environment.	Enclosed the approval copy Forest Clearance U/s. 2 (ii) of Act, 1980 to MoEF & CC, New Delhi vide letter no 8-68/2000- FC(pt.), date: 20.04.2023 (Enclosed as Annexure - 1) MoEFF & CC has accorded the approval for diversion of 66.20 ha, including safety zone area of 1.899 ha under section 2 (ii) based on the State Govt's recommendation vide FE-DIV-FLO-0115 2021, 15632/FE & CC, dat: 03.09.2021 (the purpose of utilization of total forest area at apge no.6 of state Govt's recommendation, Enclosed as Annexure -2.) Non forest Govt. land for compensatory afforestation against the safety zone of 3.141 ha (to be used for non-forestry activity), has been considered in the proposal. Additionally, 1.5 times of degraded forest land i.e. 3.0 ha against the 1.899 ha has been identified and considered for plantation while granting the Forest Clearance. It may be noted that the green belts on northern sides of ML will not be disturbed However, we will develop green belt, in phased manner over the entire 3.141 ha at the final stage of mining. This, along with the green belts of neighboring mining leases shall act as a shield to arrest propagation of fugitive materials, beyond the mining cluster.	Copy submitted
ii)	Approval copy from DGMS to carry out mining in safety zone.	Enclosed the approval copy of DGMS u/s 111(3) to carry out Mining to safety Zone vide letter no. 180050/SEZ/Bhubaneswar	Copy submitted

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		Regionn/perm/2022/238108, Date 06.06.2022 (Enclosed as Annexure-3)	
iii)	RL of ground water table during pre and post monsoon period to be reported along with RL of the surface of the mining site post mining as per the approved mining plan.	I. RL of ground water table during pre and post monsoon period is (Enclosed as Annexure - 4) II. RL of the surface of the mining site post mining as per the approved mining plan by Indian Bureau of Mines for the period 2022-2023 to 2025-2026 vide letter no. BBS/JJP/CR/2174/MPM/2022-23, date 17/08/2022 (Enclosed as Annexure -5)	Copy submitted
iv)	Level of chromium, manganese and other heavy metal elements in the ground water samples of the EIA study area.	Monitoring report of Ground Water sample of EIA study area carried out by NABL accredited laboratory and is Enclosed as Annexure -6 .	Monitoring report of Ground Water sample is submitted.

21. 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.
22. The SEAC observed that the existing opencast mechanised mining method shall be continued for Common Boundary Mining in the safety zone area in Band-1 (Quarry -1) with M/s Tata Steel Mining Limited & M/s Balasore Alloy Limited. Mining in Quarry-1 and Quarry-2 within the ML area shall continue, additionally.
23. The SEAC opined that this is a policy matter need to be discussed jointly with M/s Jindal Stainless Ltd., M/s Tata Steel Mining Limited, M/s Balasore Alloy Limited, Steel and Mines Department, Govt. of Odisha and concerned official in Forest Department, Govt. of Odisha before going to take decision for amendment of EC.
24. Any deficiencies/omission have been noticed in the above documents-**Nil**


2. **Whether SEAC recommended the proposal –Yes**, the proposal was placed in its meeting held on 19.10.2024 and after detailed discussion, the SEAC recommended to return the proposal to SEIAA, Odisha with a request that SEIAA, Odisha may consider to discuss jointly with M/s Jindal Stainless Ltd., M/s Tata Steel Mining Limited, M/s Balasore Alloy Limited, Steel and Mines Department, Govt. of Odisha and concerned official in Forest Department, Govt. of Odisha for taking decision for amendment of EC.

Decision of Authority: Approved

After detailed deliberation, the authority approved Amendment of EC based on the permission under Regulation 111(3) of the Metalliferous Mines Regulations, 1961 to work within 7.5m of the Common Mine Boundary between Sukinda Chromite Mine of M/s Tata Steel Mining Limited and Jindal Chromite Mine of M/s Jindal Stainless Limited of DGMS letter 180050/SEZ/Bhubaneswar Region/perm/2022/238108, dated 06.06.2022

Signed by


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA

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PARIVESH 1.0, AGENDA No.183.22	
Proposal No.	SIA/OR/MIS/267251/2022
Date of application	28.06.2022
State file no.	149248/24-MIS/03-2020
Project Type	Amendment of EC (Increasing build-up area)
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction
Name of the Project	Proposal for Modification of Environmental Clearance of M/s. Utkal Builders Ltd. for Development of Private Housing Project 2.191 Acres of land at Plot No.: 336/2120, 336/3046, 336/3035, 336/2764, 336, 336/3221, 334/2272 Khata No- 703/362, 703/1499, 703/1496, 703/1222, 703/2256, 703/1720, 703/559, over a built-up area – 47957.9 SQ.M Near NH-16 Road, at-Patrapada, Bhubaneswar, Dist – Khordha of Sri Rakesh Bhura
Name of the company/Organization	M/s. Utkal Builders Ltd. Sri Rakesh Bhura
Location of Project	At-Patrapada, Bhubaneswar, Dist – Khordha
Whether submitted scrutiny fee (Yes/No)	No, not submitted
ToR issue date	NA
Name of Consultant	M/s. Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar

Proposal in brief:

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

- The proposal is for Modification of Environmental Clearance of M/s. Utkal Builders Ltd. for Development of Private Housing Project 2.191 Acres of land at Plot No.: 336/2120, 336/3046, 336/3035, 336/2764, 336, 336/3221, 334/2272 Khata No- 703/362, 703/1499, 703/1496, 703/1222, 703/2256, 703/1720, 703/559, over a built-up area – 47957.9 SQ.M Near NH-16 Road, at-Patrapada, Bhubaneswar, Dist – Khordha of Sri Rakesh Bhura.
- Environmental Clearance from SEIAA vide letter no. 1739/SEIAA, dated 16.07.2021 of total built up area is 33,621.35 sqm and total nos. of floor is 17 nos. in Residential Block & 4 Nos. in Commercial Block, but due to height restriction from Airport Authority of India we have reduce the 5 nos. of floor in Residential Block & increased the 8 Nos. of Floor in Commercial Block (Convenient Store) & revised the built-up area i.e. 47,957.94 sqm.
- Location and Connectivity** - The proposed site is located at Patrapada, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site is: Latitude -20° 14' 44.81" N & Longitude - 85° 46' 32.78" E. The project site is well connected with National Highway-16 (Jharpokharia-Chennai Road). The nearest railway station is Bhubaneswar Railway station at a distance of approx 10.6 Km in South West direction. The nearest airport is Biju Pattnaik Airport Bhubaneswar at a distance of approx. 13.4 Km in South-West direction from project site. The site is located adjacent to the local landmarks, Haridaspur Mosque, Jagannath Temple, Pahala Etc. There is no structure or encroachments on the site. The site is easily accessible from NH-05 Road.
- Meteorology:** The maximum temperature is about 36.0° C and the minimum temperature is 16.0° C felt in the area. The average annual rainfall in the area is 1326.16 mm.

5. Building Details of The Project:

Total Plot Area	:	8,866.66 sqm
Kisam of Land	:	Gharabari

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Residential Builtup Area	:	33,350.98 sqm
Commercial Builtup Area	:	14,606.96 sqm
Total Builtup Area:		47,957.94 sqm
Total FAR Area	:	36,535.71 sqm
Ground Coverage	:	3,015.00 sqm
Road & Paved Area:		2,483.00 sqm
Green Belt Area	:	1,793.52 sqm
Total Parking Area	:	11,922.22 sqm
Height of the Building	:	42.00 m

6. **Water requirement:** Fresh make up of **104.0 m³/day** will be required for the project which will be sourced from Ground water. Waste water of 132.1 KLD will be treated in a STP of 150 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Near Drain.
7. **Power requirement:** The daily power requirement for the proposed building is preliminarily assessed as 1376 KW. In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG set having 320 KVA capacities for power back up in the proposed Building Project.
For energy conservation, there will be 33 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting, so
Energy conservation by using Solar Street Lighting = $33 \times 72 = 2376 \text{ watt} = 2.4 \text{ KW}$
Energy conservation by using Solar lighting for common area = 151.8 KW
Total Energy Conservation = $(151.8+2.4) \text{ KW} = 154.2 \text{ KW}$
Total Energy saving = $154.2/1376 = 0.1120 \times 100 = 11.2 \%$
8. **Rain Water Harvesting:** Rain Water will be harvested through 6 nos. of recharging pits.
9. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).
10. **Green Belt Development:** Green belt will be developed over an area of 1,793.52 sqm which is 20.23 % of the plot area; by using the local species like Neem, Karang, Golden Champa, Bakul, Bela, Bottle Palm, Cheekoo, Guava etc.
11. **Solid Waste Management:** From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 476.1 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured beans. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste. Waste generated from Commercial people will be @ 0.15 kg/capita/day, which will be about 45.0 kg/day
Solid waste from sweeping and Dry Garbage containing non-biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved recyclers. Around 66.0 kg/day of STP sludge will be generated.
Solid Waste from Residential Population - 476.1 kg/day
Solid Waste from Commercial Population - 45.0 kg/day
STP Sludge - 66.0 kg/day
Total Solid Waste Generation - 587.1 kg/day
12. The Estimated Project cost is ` 40 Crores and Environment Management Cost is ` 220 Lakhs
13. The project proponent along with the consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** made a detailed presentation on the proposal on 03.08.2022.
14. The SEAC in its meeting held on 03.08.2022 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of Sub-Committee of SEAC.
 - i) Structural Stability certificate from appropriate authority as per BDA guidelines be submitted and also for revise plan also with corresponding studies made for both approved original plan and revised approved plan.

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- ii) Certificate from chartered civil engineer how much construction has been made for both approved original plan and revised approved plan.
- iii) Comparative statement in terms of physical features in original plan and present plan.
- iv) Compliance Report to Previous EC conditions duly certified by Regional Officer of MoEF & CC.
- v) Permission from Water Resources deptt. For usage of ground water in commercial complex.
- vi) Approval from Fire Safety Dept. for 6m fire tender corridor for high rise building of 40m height.
- vii) As per BDA norms, is ground coverage for the project is 35% of total area?
- viii) Justification as to why this will not be treated as a violation case.
- ix) Impact and effect of change in ground coverage with reference to the original approved plan and the revised plan.

15. **The project proponent was requested vide letter no. 765(10)/ SEAC – (Misc) - 28, dated 06.09.2022 to submit the information / documents as sought by the SEAC at para 14 above.**

16. The proposed site was visited by the sub-committee of SEAC on **14.11.2022**. Following are the observations of the sub-committee and proponent needs to submit relevant documents as below:

- i) PP and Consultant were present. It was observed that part construction has been initiated towards the back side of the plot and the permission is for commercial and residents use. The PP explained that the construction was based on earlier EC, but now the commercial part has been reduced to cater only the residents and accordingly the plan was modified. No construction was initiated at the front side where modification was sought. However, an undertaking that the Commercial area identified shall be used only for the people who would be residing in the complex may be submitted or the same can be put as a condition of EC.
- ii) Copy of drainage plan approved by BMC with any layout/drawing vetted and NOC needs to be taken before construction including from NHAI if connecting to their drain be a condition of EC.
- iii) Justification as to why the case cannot be considered as a violation case with reference to BDA norm.
- iv) All documents or information as asked by Committee during presentation
- v) The Sub-committee recommend for EC subject to above conditions and submission of documents /compliances as asked by the committee during presentation.

17. The SEAC in its meeting held on dated 13-01-2023 decided to take decision on the proposal after receipt of information / documents as requested vide letter no. 765(10)/ SEAC – (Misc) - 28, dated 06.09.2022 and as sought by the Sub-Committee of SEAC at para 16 above.

18. 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
6.	Structural Stability certificate from appropriate authority as per BDA guidelines be submitted and also for revise plan also with corresponding studies made for both approved original plan and revised approved plan.	Structural Stability of the building is vetted by Adroit Consultants, Kolkata. Structural Stability Certificate is attached in Annexure-1 .
7.	Certificate from chartered civil engineer how much construction has been made for both approved original plan and revised approved plan.	We have reduced the commercial part of the building. The construction work is started only residential block which EC was granted earlier. So we have start the construction only residential block.
8.	Comparative statement in terms of physical features in original plan and present plan.	A comparative statement showing physical features in original plan and present plan is attached in Annexure-2 .
9.	Compliance Report to Previous EC	We have already applied the letter to

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	conditions duly certified by Regional Officer of MoEF & CC.	IRO MoEF&CC for issue certified EC Compliance report of existing EC. We will submit the certified compliance report before issue of Environment Clearance.
10.	Permission from Water Resources deptt. For usage of ground water in commercial complex.	The ground water clearance has been Obtained from CGWA vide noc no. CGWA/NOC/INF/ORIG/2021/12997, dated 21.09.2021. CGWA NoC is attached in Annexure-3 .
11.	Approval from Fire Safety Dept. for 6m fire tender corridor for high rise building of 40m height.	Fire Safety recommendation has been obtained from Odisha Fire Services vide letter no. RECOMM1204130012021000174, dated 15.07.2021. Fire NoC is attached in Annexure-4 .
12.	As per BDA norms, is ground coverage for the project is 35% of total area?	As per BDA Norms, the ground coverage of the building is 40% for more than 40 m height of the building. BDA notification is attached in Annexure-5 .
13.	Justification as to why this will not be treated as a violation case.	The construction work is started only residential block which EC was granted earlier. We have reduced the commercial part of the building for which EC application is applied. So we have constructed only residential block which is not changed.
14.	Impact and effect of change in ground coverage with reference to the original approved plan and the revised plan.	<ul style="list-style-type: none"> • As the ground coverage is increasing according to the Population, We are also increasing the services like the capacity of STP, DG, UGT etc. • Also increasing the parking according to the population As per BDA norms.
1.	PP and Consultant were present. It was observed that part construction has been initiated towards the back side of the plot and the permission is for commercial and residents use. The PP explained that the construction was based on earlier EC, but now the commercial part has been reduced to cater only the residents and accordingly the plan was modified. No construction was initiated at the front side where modification was sought. However, an undertaking that the Commercial	An undertaking is attached in Annexure-6 .

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	area identified shall be used only for the people who would be residing in the complex may be submitted or the same can be put as a condition of EC.	
2.	Copy of drainage plan approved by BMC with any layout/drawing vetted and NOC needs to be taken before construction including from NHAI if connecting to their drain be a condition of EC.	The drainage plan has been approved by Bhubaneswar Development Authority vide letter no. 4584, dated 12.02.2020. Drainage letter is attached in Annexure- 7 and drainage layout is attached in Annexure-8 .
3.	Justification as to why the case cannot be considered as a violation case with reference to BDA norm.	The construction work is started only residential block which EC was granted earlier. We have reduced the commercial part of the building for which EC application is applied. So we have constructed only residential block which is not changed.
4.	All documents or information as asked by Committee during presentation	Attached

19. The SEAC in its meeting held on dated **02-12-2023** 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
	Environmental Clearance dated 16.07.2021 for total built up area is 33,621.35 sqm and total nos. of floor 17 nos. in Residential Block & 4 Nos. in Commercial Block, Now, 5 nos. of floor reduced in Residential Block (so, 12 floors) & increased 8 Nos. of Floor in Commercial Block to 12 floors. Revised the built up area i.e. 47,957.94 sqm. This appears to be a complete violation case as the PP has progressed construction without obtaining the AA clearance (if the cause stated is true)	As there is no change in the Ground Coverage from previous EC and current EC, the construction progress is considered as no deviation. The change in FAR and reduction of commercial units, increase in residential apartments as per modified plan to be implemented once final EC is granted. As such there has been no deviation and structures initiated are also certified by Structural Engineer with supporting documents. Airport Authority Clearance has been obtained. AA clearance is attached in Annexure-1 .	AA clearance is submitted.
2.	All the required statutory clearances obtained were on 2020/2021. Since the building is undergoing MAJOR CHANGES, they need to obtain fresh clearances.	All the fresh clearance has been obtained.	-----
3.	There are mismatches in the comparative table presented and in the ADS. PP needs to clarify which is correct.	A comparative statement showing physical features in original plan and present plan is attached in Annexure-2 .	Comparative statement submitted.

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4.	The residential floors are reduced but the residential population increased by 40%	As there is no change in the Ground Coverage from previous EC and current EC, the construction progress is considered as no deviation. The change in FAR and reduction of commercial units, increase in residential apartments as per modified plan to be implemented once final EC is granted.	-----
5.	The STP capacity is revised from 140 to 150 with 40% increase in residents (830 to 1176) is faulty and to be reworked and submitted.	Total Fresh water requirement of the project is 104 KLD, Flushing water requirement is 51.5 KLD. Total waste water generated from the project is 132.1 KLD. So, the Sewage Treatment Plant (STP) capacity is 150.0 KLD which is higher than the waste water generated.	-----
6.	The structural certificate has no date hence cannot be considered. They need to submit a fresh certificate from a government approved structural engineer or BDA mentioning the floor changes.	Structural Stability of the building is vetted by Adroit Consultants, Kolkata on 08.02.2023. Structural Stability Certificate is attached in Annexure-3 .	Structural Stability Certificate submitted.
7.	Permission from highway authority or appropriate authority before construction to discharge the excess treated water is not complied and violated . This needs to be submitted with present changes.	Drainage permission has been obtained from BMC. Permission letter is attached in Annexure-4 . Permission has been obtained from Highway Authority for construction of drain. NHAI letter is attached in Annexure-5 .	Drainage permission has been obtained from BMC. Permission letter is for only storm water and not for discharge the excess treated water.
8.	Extent of construction by Chartered Civil Engineer is not submitted. Let the PP submit the certificate with regard to the extent of construction from an authorized Architect or Structural Engineer of BDA.	Chartered Civil Engineer certificate is attached in Annexure-6 .	----
9.	As there is a drastic increase in commercial units, the PP needs to submit an Affidavit that it will not be used for outside public (if such statement issued is true).	An affidavit is attached in Annexure-7 .	Affidavit submitted.

25. Any deficiencies/omission have been noticed in the above documents-**Not submitted certified EC compliance and BDA approval letter for existing built-up area and proposed/modified built-up area.**

2. **Whether SEAC recommended the proposal –Yes, the proposal was placed in its meeting held on 19.10.2024 and Considering the information furnished and the presentation made by the consultant, M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per Annexure – A in addition to the following specific conditions.**

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- i) The PP shall ensure to combat water logging and temporary flooding in the project premises.
- ii) 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.
- iii) 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.
- iv) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- v) The proponent shall obtain permission from concerned Fire Safety Authority.
- vi) The commercial block to be used only for the residents of that apartment as mentioned by PP.
- vii) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- viii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- ix) 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.
- x) 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.
- xi) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.
- xii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

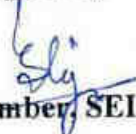
Decision of Authority: Deferred for ADS

After detailed deliberation, the authority decided to seek information / clarification from PP on the following:

1. Certified Compliance Report (CCR) from IRO on previous EC conditions.
2. In-principle approval / conditional approval of BDA for total built up area of 47957.94 sqmtr.

Signed by


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA

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PARIVESH 1.0, AGENDA No.23	
Proposal No.	SIA/OR/MIN/305365/2023
Date of application	06.10.2023
State file no.	J-11015/139/2012-IA.II(M)
Project Type	Amendment of EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for Amendment Environmental Clearance of M/s Balasore Alloys Ltd, Kaliapani Chromite Mines for "Proposal of Common Boundary Mining and Common Boundary Dumping with Jindal Chromite Mines of M/s Jindal Stainless Limited in Village Kaliapani, Tehsil Sukinda, District Jajpur, Odisha, in addition to the existing activities viz. Opencast & Underground mining, mining of blocked pillar in open pit mines & Common Boundary Dumping with M/s IMFA producing 0.6 MTPA of Chrome ore by Kaliapani Chromite Mines(ML area 64.463 ha) at Kaliapani Dist Jajpur of of Sri A Nagendra Kumar
Name of the company/Organization	M/s. Balasore Alloys Ltd. Sri A Nagendra Kumar, Applicant
Location of Project	at Kaliapani Dist Jajpur
Whether submitted scrutiny fee (Yes/No)	NA
ToR issue date	NA
Name of Consultant	Nil

Proposal in brief:

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

1. This proposal is for Amendment Environmental Clearance of M/s Balasore Alloys Ltd, Kaliapani Chromite Mines for "Proposal of Common Boundary Mining and Common Boundary Dumping with Jindal Chromite Mines of M/s Jindal Stainless Limited in Village Kaliapani, Tehsil Sukinda, District Jajpur, Odisha, in addition to the existing activities viz. Opencast & Underground mining, mining of blocked pillar in open pit mines & Common Boundary Dumping with M/s IMFA producing 0.6 MTPA of Chrome ore by Kaliapani Chromite Mines(ML area 64.463 ha) at Kaliapani Dist Jajpur of of Sri A Nagendra Kumar.
2. **Category:** As per the Environmental Impact Assessment (EIA) Notification dated 14th September 2006, the proposed enhancement of chromite ore production by mining falls under 'Category B' of project type 1(a)-Mining of Minerals.
3. The Govt. of Odisha has issued Terms & Conditions that would govern the grant of mining lease of 100.063 Ha vide their letter no VI-SM-108/99-3927/SM dated 24/5/1999. Further Govt. of Odisha has split up the total area of 100.063 Ha into two leases viz 64.463 Ha (Non-Forest area), 35.6 Ha (forest area) vide letter No 1864/SM BBSR Dt 16/02/2000. The Mining Lease Deed of 64.463 Ha was executed vide Lease Deed dated 17.07.2000. Lease Deed was further modified on 01.01.2008 for change of name from Ispat Alloys Ltd. to Balasore Alloys Ltd.
4. **Terms of Reference details:** ToR was issued by MoEF & CC Vide No . J-11015/139/2012-IA-II (M) dated 11th October, 2012 for an annual production capacity of 0.6 MTPA of Chrome ore by opencast and underground including mining of blocked pillars in open pit mines by drift and fill

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- mechanized mining method
5. Environmental Clearance for the project has been received from Ministry of Environment, Forests & Climate Change (MoEF&CC), Govt. of India, New Delhi with an annual production capacity of 0.6 MTPA of Chrome ore by opencast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method vide Letter No J-11015/139/2012-IA.II (M) Dated 22nd August 2014.
 6. **Public hearing details:** As per the EIA Notification dated 14th September, 2006, Public hearing for this project was conducted on 4th April, 2013 at 11:00 AM in the Open place over Khata no. 55, Plot no. 888 of Kaliapani village in front of main gate of M/s Blasore Alloys Ltd. in accordance with the procedure to obtain the Environmental Clearance.
 7. **List of Statutory clearances obtained earlier:**
 - Environmental Clearance for the project has been received from Ministry of Environment, Forests & Climate Change (MoEF&CC), Govt. of India, New Delhi with an annual production capacity of 0.6MTPA of Chrome ore by open cast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method vide Letter No J-11015/139/2012-IA.II (M) Dated 22nd August 2014 .
 - Consent to Establish(CTE) has been obtained for production 0.06 MTPA chrome ore with open cast and underground including mining of blocked pillars in open pit mines by drift and fill mechanized mining method vide No 16196/IND-II-NOC-5723 date 08/10/2017
 - Consent to Operate (CTO) was obtained for production of 0.6 MTPA Chrome Ore form State Pollution Control Board, Odisha vide No 3749/IND-I-CON-2576 date 28.03.2018 valid upto 31.3.2023.
 - Mine operation is under suspension since 22.6.2022
 - Scheme of mining has been modified and approved by Indian Bureau of Mines, Govt. of India vide letter No BBS/JJR/CR/2169/2022-23 dated 03.06.2022 .
 - Stage –I Forest Clearance was accorded by MOEF & CC for this mining project vide No F.No.8-14/2016-FC dated 18th November,2016 and approval of Stage-II order is under consideration with MoEF&CC.
 8. **Forest clearance status :** The ML area is of 64.463 ha is of Non- Forest Land Kisam as per lease deed. However, in view of MoEF guidelines, vide No. 8-78/1996-FC(pt) dated 10.3.2015 and subsequent Circular dated 30.3.2015 issued by State Govt. certified Land Schedule vide letter No. 2899, dated 30.10.2015 out of 64.463 ha ML area, 64.119 ha was classified as Sal Jungle i.e., Forest Kissam as on 25.10.1980 and balance 0.344 ha as road(Non-Forest). Stage-I Forest Clearance was accorded by MOEF & CC for this mining project vide No F.No.8-14/2016-FC dated 18th November,2016 and approval of Stage-II order is under consideration with MoEF&CC.
 9. Scheme of mining has been modified and approved by Indian Bureau of Mines, Govt. of India vide letter No BBS/JJR/CR/2169/2022-23 dated 03.06.2022.
 10. **Project details:** the proponent has applied for amendment of existing environmental clearance vide no Vide No J-11015/139/2012-IA.II (M) Dtd.22.8.2014 for production of 0.6 MTPA for the proposal of common boundary dumping and mining with Jindal Chromite Mines of M/s Jindal Stainless Ltd in addition to existing opencast, underground, Boundary pillar Mining and Common Boundary Mining and Dumping with M/s IMFA.
 11. **Location and connectivity:** the propose project site is located at village - Kaliapani, Tehsil – Sukinda of district Jajpur in the state of Odisha bearing topo sheet no 73 G/12, G/16, H/9, H/13 bounded by Latitude N 21^o02'9.82" to N 21^o01'33.05" and Longitude : E 85^o45'29.24" to E 85^o46'28.24". Nearest SH-20 (25 km in ESE direction); NH–200 (23 km in South direction); NH–215 (38 km in East direction); and NH–5 (62 km in SE direction). Nearest railway station is Jajpur-Keonjhar Road (52 km, SE). Nearest airport is Bhubaneshwar Airport (150 Km, South). There are totally 13 operating chromite mines in Sukinda valley. In addition to the existing BAL mine, Eleven opencast mines and Two underground mine (FACOR-Kathapal & Mahagiri,IMFA) in Sukinda

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valley. Some of the mines has been operating since 1960/1980.

12. **Method of Mining:** Opencast and underground mining method along with boundary pillar Mining, common Boundary mining with M/s IMFA an M/S JSL shall be carried out by engaging Tripper, Dumper, Loader, Excavator, Road Header, Belt Conveyor etc. as per approved Mining Plan . Transportation shall be carried through road.

13. **(Dump) management:**

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

14. **Waste generation and management:**

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

15. **Water requirement:** Water Requirement of Mines will be 360 KLD, which will be sourced from One bore well and Mine Dewater.
16. **ETP/STP details:** Effluent treatment Plant of 750 KLH capacity has been installed for treatment of Mine water and STP of 50 KLD capacity installed for Treatment of Domestic waste water.
17. **Power requirement:** Power requirement for the proposed project is 1300 KVA (1040 KW) LT 415 V AC and the unit has 6.0 KW solar system in mines.
18. **Greenbelt:** 80540 nos. of saplings planted at dump slope, roadside inside ML area since 2010-11. Green belt has been developed over 0.17 ha of safety zone area.
19. **Rain Water Harvesting Details** – Two nos. of Roof Top rain water harvesting structure has been planned and one is being completed and another structure is ongoing. It is calculated to recharge at least 5,000 m³/year of water to be recharged to the underlain fractured aquifer through rooftop rainwater harvesting structure. Thus, the total quantum of annual recharge is expected to be around 46,000 m³/annum
20. **Project cost:** Estimated cost of the proposed project is 529 Crore. EMP Capital cost is 500.26 Lakh and Recurring Cost is 580.00 Lakh. CSR Cost is Rs 80 Lakh/Annum as proposed.
21. **Environment Consultant:** M/s Balasore Alloys Ltd. made a presentation on the proposal before the Committee.
22. The SEAC in its meeting held on dated 20-10-2023 decided to take decision on the proposal after receipt of the following from the project proponent: The proponent has furnished the compliance and the SEAC verified the same as follows.

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Specific permission to be obtained from MoEF&CC, Govt. of India for modification in the conditions mentioned in the EC and also to carry out mining activity in the safety zone.	Environmental clearance vide No. J-11015/139/201-1A.II (M) dated 22 nd August 2014 was issued based on the EIA EMP report prepared based on approved mining plan in which it is mentioned in the same report that as the mines is located within cluster of mines such as lese of Sukinda Chromite Mines of M/s. IMFA on the East, Jindal Chromite Mines of M/s. Jindal Stainless Ltd (JSL) on west & in south Ispat Sukinda Chromite Mine of M/s. Balasore Alloys Ltd. As per para 4.7 of guidelines of EC Act-1980, the safety Zone of 7.5 m width all around the lease boundaries should be maintained. At para 4.7 (ii) "which inter alia says that in case of cluster of mines, the outer boundaries of cluster should be taken as Safety Zone & its maintenance cost has to be borne proportionately by the lessee operating the cluster" In north side of the Lease area with tree growth is maintained as safety zone with 7.5 m width and total area comes to 0.17 ha except limited area used for entry to the ML area. Copy of EIA/EMP report attached as Annexure-1 refer page no 13,67,68.540-541. Ministry has accepted the proposal and issued Environmental clearance (copy attached as Annexure-2)	-
2.	Copy of Environmental Clearance wherein it has been indicated that the mine has common boundary with M/s. Indian Metals and Ferro Alloys Ltd. (IMFA)	It has been indicated about common boundary dumping and mining with M/s. IMFA in the final EIA/EMP report submitted at MoEF & CC (Copy attached as Annexure-1) and based on which Environmental Clearance vide No. No.J-11015/139/2012-IA.II (M) dated 22 nd August.2014 was issued.	-
3.	Approval letter from DGMS regarding mining in the safety zone as well as at the common boundary with M/s. Jindal Stainless Ltd to avoid collapse of the adjacent mining benches.	Copy of letter from DGMS regarding mining in the safety zone as well as the common boundary with M/s. Jindal Stainless Ltd to avoid collapse of the adjacent mining benches is attached as Annexure -3 .	-
4.	Details of greenbelt	Detail greenbelt plan for the Mines is	-

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	development and proposed plan for the plantation programme.	attached as Annexure-4 .	
5.	Copy of earlier EIA/EMP report submitted during grant of Environmental Clearance wherein it has been allowed to share common boundary for dumping of Over Burden.	Copy of earlier EIA/EMP report submitted during grant Environmental clearance wherein it has been allowed to share common boundary for dumping of over burden is attached as Annexure-1 .	-
6.	Submit permission copy from MoEF&CC to carry out mining with M/s. Indian Metals and Ferro Alloys Ltd. (IMFA)	Environmental clearance (Annexure-2) was accorded by MoEF & CC based on EIA/EMP report submitted incorporating Common boundary mining and dumping with M/s. IMFA Same has been also accepted by the EC division, MoEF & CC during Forest advisory committee meeting held on 26 th October,2016 copy of MOM of EAC meeting (attached as Annexure-5 para sl 34,35.36 to refer) based on which Stage-1 approval was accorded (copy of stage -1 attached as Annexure-6)	-
7.	Clarify that proposed mining activity will not be carried out over any existing earmarked OB Dumps area.	It can be revealed from the surface plan attached as Annexure-7 and Google image of the area (Annexure-8), that, there is no existing dump at proposed area for common boundary dumping and mining on safety zone with Jindal Chromite Mines of M/s. Jindal Stainless Limited.	-
8.	Copies of all the statutory clearances obtained.	Copies of all statutory clearance viz CTE, CTO, DGMS permission for common boundary mining an dumping with Sukinda Chromite Mines of M/s. IMFA and Jindal Chromite Mines of M/s. Jindal Stainless Limited, Stage -1 Forest Clearance area attached as Annexure-9 .	-
9.	Clarify that there should be no dump along the mining area.	Dumping shall be done as provision in the approved mining plan as per same no dump exist at the common boundary are with Jindal Chromite Mines of M/s. Jindal Stainless Limited in Village Kaliapani, Tehsil Sukinda, District Jajpur, Odisha. Dumping shall be started only after obtaining all permission form all authorities.	-
10.	Copy of analysis report of Hexavalent chromium levels in the ground water samples	Concentration of Hexavalent Chromium in the ground water has been monitored for one borewell inside Mine lease and	-

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collected from within and outside the ML area.	several locations at the buffer zone of the mines engaging NABL accredited laboratory. Copies of same reports attached Annexure-10 .	
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23. The SEAC observed that this is a proposal for Amendment of Environmental Clearance of M/s Balasore Alloys Ltd, Kaliapani Chromite Mines for "Proposal of Common Boundary Mining and Common Boundary Dumping with Jindal Chromite Mines of M/s Jindal Stainless Limited in Village Kaliapani, Tehsil Sukinda, District Jajpur, Odisha, in addition to the existing activities viz. Opencast & Underground mining, mining of blocked pillar in open pit mines & Common Boundary Dumping with M/s IMFA producing 0.6 MTPA of Chrome ore by Kaliapani Chromite Mines(ML area 64.463 ha) at Kaliapani Dist Jajpur of of Sri A Nagendra Kumar.

24. The SEAC opined that this is a policy matter need to be discussed jointly with M/s Jindal Stainless Ltd., M/s Tata Steel Mining Limited, M/s Balasore Alloy Limited, Steel and Mines Department, Govt. of Odisha and concerned official in Forest Department, Govt. of Odisha before going to take decision for amendment of EC.

25. Any deficiencies/omission have been noticed in the above documents-**Nil**

2. Whether SEAC recommended the proposal –Yes, the proposal was placed in its meeting held on 19.10.2024 and after detailed discussion, the SEAC recommended to return the proposal to SEIAA, Odisha with a request that SEIAA, Odisha may consider to discuss jointly with M/s Jindal Stainless Ltd., M/s Tata Steel Mining Limited, M/s Balasore Alloy Limited, Steel and Mines Department, Govt. of Odisha and concerned official in Forest Department, Govt. of Odisha for taking decision for amendment of EC.

Decision of Authority: Approved

After detailed deliberation, the authority approved Amendment of EC based on the Renewal of permission granted vide this Directorate's Ir No.BJA/CH-2&12/111(3)/2015/1697-98 dated 08.07.2015, under Reg.111(3) of the Metalliferous Mines Regulations, 1961 for dumping of overburden within 7.5m of the common boundary between Kaliapani Chromite mine of M/s Balasore Alloys Ltd. And Jindal Chromite Mine of M/s Jindal Stainless Ltd.vide letter No. BJA/CH-2&12/P-111(3)/2017 / 2034 / Bhubaneswar dated 14.08.2017 on Permission for dumping of overburden.

Signed by

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA