



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH I.O, AGENDA No.155.01	
Proposal No.	SIA/OR/MIN/296522/2023
Date of application	24.02.2023
File no.	SEIAA-1536/03-2021
Project Type	Proposal for Amendment of EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Shirsa Rugudisahi Sand Bed over an area of 12.35 acres or 5.00 hectares in village Shirsa under Saraskana Tahasil in Mayurbhanj District, Odisha.
Name of the company/Organization	Sri Jayprakash Khandelwal, S/o-Narayandal Khandelwal, At-Purunabatasahi, Ward No.-6, PO/PS-Baripada, District-Mayurbhanj
Location of Project	Odisha
ToR Date	N/A
Name of the Consultant	N/A

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.

This is a proposal for amendment of EC of Shirsa Rugudisahi Sand Bed over an area of 12.35 acres or 5.00 hectares in village Shirsa under Saraskana Tahasil in Mayurbhanj District, Odisha.

The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. 2599/SEIAA dated 04.09.2021 and Transfer of EC was issued vide letter no. 3691/SEIAA dated 27.12.2021 for Shirsa Rugudisahi Sand Bed over an area of 12.35 acres or 5.00 hectares in village Shirsa under Saraskana Tahasil in Mayurbhanj District, Odisha.

During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand was 50556 cum with depth of sand deposition was 1.2 meter and proposed for annual extraction 50530 cum.

The SEIAA allowed 6000 cum of sand for 1st year production.

There is an EC conditions point no. 9.1 to 9.2 in page no. 03 that "Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e. after 15th October 2022, if satisfactory replenishment study report is not submitted."

The PP has mentioned the quantity of sand extracted for the 1st year period **7250 cum**

- i) Now, the PP has requested for amendment of EC for 2nd year production 40000 cum/annum
- i) The replenishment study was done by the ORSAC empanel agency Sri Amresh Samataray with mentioned that the pre-monsoon reserve is **89865.22 cum** after post-monsoon mineral reserve is **91568.81 cum** and quantity of sand replenished is **1703.52 cum**

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

- 2. **Whether SEAC recommended the proposal –** The proposal was placed in the SEAC meeting held on 27.03.2023 after detailed discussion, the SEAC decided to recommend the extraction of sand equal to replenished volume as per study i.e. **1703.59 cum/year** subject to outcome of further replenishment studies.
- 3. The proposal was placed in 114th SEIAA meeting held on 21.04.2023 and after detailed deliberation, the Authority observed that the replenishment study shows negative replenishment or meagre

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



- replenishment of sand. In the past few such reports have been referred to ORSAC for their opinion. Pending receipt of comments/ opinion from ORSAC, the present proposal is **deferred**.
4. The proposal was placed in 129th SEIAA meeting held on 24.05.2023 and after detailed deliberation the authority decided that the matter was discussed with ORSAC on 04.05.2023 and it was suggested that the volume of sand replenished should be computed by calculating the replenishment quantity per hectare of workable area and then arrived at the total replenishment quantity in the mineable area proportionately. The PP is required to revised the calculation method and submit the final replenished quantity as per ARRS study for further consideration.
5. Now, the PP submitted the ADS reply on 06.11.2023 with mentioned that quantity of sand replenished 1340.14 cum and proposed production is 1340.14 cum.
6. Again, the proposal was placed in 146th SEIAA meeting held on 11.12.2023. The authority perused the revised ARRS report submitted by the PP and decided that a joint verification be carried out by the Department of Mining, Geology and Revenue with respect to permissible quantity as per ARSS for sustainable sand mining. Accordingly, ADS was by SEIAA on 16.12.2023 and now the Mining Officer, Baripada has submitted their reply vide letter no. 31 dt. 25.01.2024 and uploaded it in Parivesh portal on 02.02.2024 with attaching report of joint field verification with mentioned that 90,288 cum of sand available in the said sand bed and proposed production is 40,000 cum but the revised ARRS report submitted by the PP reveals that only 1340.14 cum sand replenished in the sand bed and proposed production is 6000 cum for next year. Whereas the SEAC recommended earlier that extraction of sand equal to replenished volume as per study i.e. **1703.59 cum/year** subject to outcome of further replenishment studies.

Decision of Authority: Approved

After detailed deliberation in the matter, the Authority decided to allow amendment of EC as per the SEAC recommendation with the following specific stipulation:

- Maximum quantity of extraction of sand shall be allowed to **1703 cum per year** for the rest of the lease period i.e. for the 2nd year, 3rd year, 4th year and 5th year. The PP is required to carry out the Annual rate of replenishment study (ARRS) through ORSAC empanel agency in subsequent year and submit the report to SEIAA, Odisha.
- The EC is valid till the validity of DSR or validity of lease period whichever is earlier.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.02

Proposal No.	SIA/OR/MIN/299171/2023
Date of application:	08.11.2023
File no.	SEIAA 1296/02-2021
Project Type	Proposal for Amendment of EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Bhagabatpur Luni River Sand Quarry over an area of 12.321 Acre or 4.95 Ha under Derabish Tahasil of Kendrapara District Odisha
Name of the company/Organization	Sri Nilakantha Barik
Location of Project	At Bhagabatpur, Derabish Tahasil of Kendrapara District Odisha
ToR Date	N/A
Name of the Consultant	N/A

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.

This is a proposal for amendment of EC of Bhagabatpur Luni River Sand Quarry over an area of 12.321 Acre or 4.95 Ha under Derabish Tahasil of Kendrapara District Odisha.

The project proponent has obtained EC from SEIAA, Odisha vide E.C letter no. 2082/SEIAA dated 09.08.2021 and Transfer of EC was issued vide letter no. 3691/SEIAA dated 27.12.2021 for Bhagabatpur Luni River Sand Quarry over an area of 12.321 Acre or 4.95 Ha under Derabish Tahasil of Kendrapara District Odisha.

During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand was 58000 cum with depth of sand deposition was 1.5 meter and proposed for annual extraction-58000 cum.

The SEIAA allowed 20000 cum of sand for 1st year production.

There is an EC conditions point no. 9.1 to 9.2 in page no. 03 that "Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e. After 15th October 2022, if satisfactory replenishment study report is not submitted."

- i) The PP has mentioned the quantity of sand extracted for the 1st year period **9748 cum** (2021-22) & **7711 cum** in 2nd year (2022-23).
- ii) The replenishment study was done by the RQP Sri ILK. Salotu with mentioned that the pre-monsoon reserve is **98466 cum** as per mining plan reserve after post-monsoon mineral reserve is **27311 cum** and quantity of sand replenished is **Nil**.

Any deficiencies/omission have been noticed in the above documents-In complete ARRS report and quarry operated last 2 years. EC is in favour of Tahasildar but amendment of EC application applied by Sri Nilakantha Barik, the lessee.

- 2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 28th, 29th, & 30th December 2023 and the SEAC opined that the Replenishment study is not satisfactory inter alia has following deficiencies–
 - a) No benchmarking and Ground Control Points
 - b) Sampling is not as per guidelines of moef.
 - c) The levels of the corner points of each grid not taken.
Hence, it is not accepted.



Decision of Authority: Rejected

After detailed deliberation on the matter, the authority accepted the recommendation of SFAC and decided to rejected the amendment in EC application due to the following deficiency in the ARSS Study Report.

- a) No benchmarking and Ground Control Points
- b) Sampling is not as per guidelines of MoEF&CC, Govt. of India
- c) The levels of the corner points of each grid not taken.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA
13.02.2024



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.03	
Proposal No.	SIA/OR/MIN/296449/2023
Date of application	23.11.2023
File no.	57719/226-MINB1/04-2023
Project Type	Proposal for Amendment of EC
Category	B2
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Chasanimakhandi Sand Quarry with proposed excavation of 3000 m ³ /year of sand of M/s PREMEX having an area of 13.0678 Ha. Located at Khata No. 1004, Plot No 1535, 1427, Village Chasanimakhandi, Tahasil: Digapahandi, District: Ganjam, Odisha
Name of the company/Organization	The Partner M/s. Premex
Location of Project	Village: Chasanimakhandi, Tahasil: Digapahandi, District: Ganjam, Odisha
ToR Date	N/A
Name of the Consultant	N/A

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.

This is a proposal for amendment of EC of Bhagubatpur Luna River Sand Quarry over an area of 12.321 Acre or 4.95 Ha under Derabish Tahasil of Kendrapara District Odisha.

- (i) The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. EC Identification No. - EC22B001OR145038 dt. 22.07.2022 for Bhagubatpur Luna River Sand Quarry over an area of 12.321 Acre or 4.95 Ha under Derabish Tahasil of Kendrapara District Odisha.
- (ii) During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand was 100348 cum with depth of sand deposition was 1.5 meter and proposed for annual extraction-3000 cum.
- (iii) The SEIAA allowed 3000 cum of sand for 1st year production.
- (iv) There is an EC conditions point no. 7.1 to 7.2 in page no. 04 that "Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e. after November 2023, if satisfactory replenishment study report is not submitted."
- (v) The PP has mentioned the quantity of sand extracted for the 1st year period 2250 cum (2022-23) & 750 cum in 2nd year (2023).
- (vi) The replenishment study was done by the RQP P.R. Mishra with mentioned that the pre-monsoon depth 0.5m and post-monsoon depth 1.5 meter and quantity of sand replenished is 11700 cum and proposed production is 3000 cum/annum.
- (vii) Any deficiencies/omission have been noticed in the above documents-ARRS report is not satisfactory, both RQP and consultant and lessee is the same person.

- 2. Whether SEAC recommended the proposal –** The proposal was placed in the SEAC meeting held on 28th, 29th, & 30th December 2023 and the SEAC observed that Replenishment study report is satisfactory, 3000 cum sand mining may be permitted based on replenishment study report finding.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Decision of Authority: Approved

After detailed deliberation in the matter, the Authority decided to allow amendment of EC as per the SEAC recommendation with the following specific stipulation:

- Maximum quantity of extraction of sand shall be allowed to **3000 cum per year** for the rest of the lease period i.e. for the 2nd year, 3rd year, 4th year and 5th year. The PP is required to carry out the Annual rate of replenishment study (ARRS) through ORSAC empanel agency in subsequent year and submit the report to SEIAA, Odisha.
- The EC is valid till the validity of DSR or validity of lease period whichever is earlier.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA
13.02.24



PARIVESH 1.0, AGENDA No.155.04	
Proposal No.	SIA/OR/MIS/300941/2023
Date of application	23.11.2023
File no.	213302/38-MIS/05-2021
Project Type	Proposal for Amendment of EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction Project
Name of the Project	Proposal for Amendment of EC of Proposed Residential Building Project (S+5) storied at Mouza- Satyabhamapur, Tahasil- Baliaanta, Dist- Khordha, Odisha of M/s Astroz Creators Pvt. Ltd.
Name of the company/Organization	M/s. Astroz Creators Pvt. Ltd.
Location of Project	Mouza- Satyabhamapur, Tahasil- Baliaanta, Dist- Khordha, Odisha
ToR Date	N/A
Name of the Consultant	M/s Right source industrial Solutions Pvt. Ltd., Hyderabad

Proposal in brief:

1. This proposal is for amendment of Environmental Clearance of M/s Astroz Creators Pvt. Ltd. for Residential Building Project (S+5) storied at Mouza- Satyabhamapur, Tahasil- Baliaanta, Dist- Khordha, Odisha of Sri Sanjay Kumar Moharana.
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 Astroz Creators Pvt. Ltd. had earlier applied for Environmental Clearance (File No.- 213302/38-MIS/05-2021) for the proposed residential building with B+G+4 storied with built up area of 22250.248 sqm. Environmental Clearance had been granted by SEIAA to the proposed residential building then through EC Identification No.-EC22B038OR127553 dated 06.04.2022 for a period of 7 (Seven) years. Now, the commercial area of the proposed project is being changed for residential purpose. The built-up area of the residential building has been revised from 22250.248 sqm to 24390.045 sqm and the configuration of the proposed building has been changed to S+5 storied (2 blocks).
4. Approval from BDA has been taken vide Letter No- BNB/NOC/2023/010, Dt. 20/04/2023.
5. **Location and Connectivity:** The proposed project is located at Plot No-612, 557, 556, Khata No - 277/94 & 277/191 in Mouza- Satyabhamapur, Tahasil- Baliaanta District—Khordha, Odisha bounded by Latitude 20°14' 45.08" N and Longitude 85° 53' 30.17" E. The Project Site is a part of the Survey of India Toposheet No. F45T15. The geographical co-ordinates of project site are Latitude 20° 14' 43.28" N to 20° 14' 46.84" N and Longitude 85° 53' 29.11" E to 85° 53' 32.24" E. The project site is located at a distance of 0.04 km from mouza Satyabhamapur and 7.1 km from tahasil Baliaanta. Khordha District is at a distance of 29.0 Km. NH-316 is at a distance of 3.5 km. Balchuan Road is at a distance of 0.07 km. Bhubaneswar town is located at a distance of 9.0 km. Biju Patnaik Airport is at a distance of 7.8 km. Bhubaneswar Railway station is at a distance of 5.6 km. Bhubaneswar Fire Station is located at a distance of 5.5 km and Bhubaneswar govt. hospital is located at a distance of 7.4 km from the project site.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



6. Project Area Details:

S. No.	Details of Land Use	Area in Sqm
a)	Plot Area	8052.12
b)	Net Site Area	7765.33
c)	Total Proposed FAR Area	18650.31
d)	Total Proposed Non-FAR Area	5739.735
e)	Total Built-up Area	24390.045
f)	Total Green Area	1553.06
g)	Height of the Building	14.75

7. Environmental Clearance Amendment details:

S.No	Details of Residential Building	Previous Configuration (EC granted by SEIAA)	Proposed Configuration
a)	No. of Floors	B+G+4 (Blocks A & B)	S+5 (Blocks A & B)
b)	Built up Area	22250.248 sqm	24390.045 sqm
c)	Building Height	14.75 m	14.75 m
d)	Total Water Requirement	92.0 KLD	137.0 KLD
e)	Fresh Water Requirement	58.0 KLD	81.0 KLD
f)	STP Capacity	85 KLD	130 KLD
g)	STP Technology	MBBR	MBBR
h)	Treated Waste water	65 KLD	96 KLD
i)	Total Green Belt Area	805.0 sqm (10.0%)	1553.06 sqm (20.0%)
j)	Total Parking Area	6007.458 sqm	5724.39 sqm
k)	Recharge pits	23 Nos.	13 nos.

8. Parking Area: Parking Required as per BDA is (30% of Proposed F.A.R) 5595.09 sqm. The total parking required for the project is 5595.09 sqm and the total parking area provided is 5724.39 sqm. Visitor's parking provided is 559.50 sqm. Total ECS provided is 181 nos.

9. Water Requirement/STP: Total water of 123 KLD will be required for the residential building which will be sourced from Ground Water. Fresh water required is 81 KLD. NOC from CGWA is obtained vide NOC No. CGWA/NOC/INF/ORIG/2021/10631 for 63.0 KLD and NOC for additional water is applied to CGWA. It is expected that the project will generate approx. 107.0 KLD of wastewater. The wastewater will be treated in the STP with MBBR Technology of capacity of 130.0 KLD provided within the plot boundary.

REQUIREMENT	QUANTITY (KLD)
Domestic Water	81
Flushing Water	42
Total	123

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

10. Solid Waste Management: Total solid waste generation will be 482 Kg/Day. Garbage will be 467.35 Kg/Day in which Biodegradable Waste 280.41 Kg/Day @ 60% will be treated in In-house Organic Waste Converter and Non-Biodegradable waste 186.94 Kg/Day @ 40% will be Sent to Authorized Vendors as per SWM Rules 2016. Landscape waste will be 0.077 Kg/Day. STP Sludge generation will be 14.98 Kg/day

WASTE SOURCE	DISPOSAL
Garbage – 467.35 Kg/day	<ul style="list-style-type: none"> ▪ Segregation at Source & Disposed properly as per SWM Rules 2016 ▪ Bio-Degradable – 280.41 Kgs/day – Organic Waste Converter ▪ Non-Bio-Degradable – 186.94 Kgs/day – (Authorized Recyclers/vendors)
STP Sludge – 14.98 Kg/day	<ul style="list-style-type: none"> ▪ Which is used as manure
Landscape waste - 0.077	<ul style="list-style-type: none"> ▪ Which is used as manure

11. Rainwater Harvesting: Rain Water will be harvested through 7 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 mm)	Rain water harvesting potential/hour (in m ³)
Roof-top area	5599.64	0.95	0.140	744.75
Green Area	1553.06	0.10	0.140	21.74
Paved area	899.42	0.80	0.140	100.73
Total storm water load on the site with per hour retention is				867.22
Considering 15 minutes retention time, total storm water load				41.8
Taking the radius as 1.5 m and effective depth as 3.0 m, volume of a RWII pit ($\pi r^2 h$)				216.80
Hence no. of pits required is approx Total storm water load considering 15 minutes retention time / Volume of a RWII pit				23 nos

12. Power Requirement: The total consolidated electrical load estimate for proposed project is about 595.63 KW which will be sourced from TPCODI. Power backup in case of grid failure will be by 1 nos. of DG set of 250 KVA.

13. Renewable energy / Solar Power Generation: Solar power generation is 32 KW (5.4%) with PV solar panels. This will be utilized for solar assisted water heating system.

Description	Energy Required (KW)	Energy Saved (KW)	Energy Saved (KW) in %
Compact Fluorescent Lamp(CFL)	152	152	35.7
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	74.63	-		
Total Energy Requirement in Project	595.63	212.88		

- 14. Green Belt Development:** Green belt will be developed over an area of 1553.06 Sqm (20.00%) of the plot area, by planting 100 nos. of the local species like Eucalyptus, Mango, Neem, Daffodils, Night Blooming Jasmine.
- 15. Firefighting Arrangements:** The height of the building is upto 14.75 mts. Firefighting system will be installed as per recommendation of Odisha Fire Service Department and as per the guideline of NBC, NOC for the same is applied to and is in process.
- 16. Traffic Study:** Traffic Composition after development of the project will be very good. Traffic study report was prepared by School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar.
- 17. Project cost:** The project cost is estimated to be Rs. 48 crores and there is a budgetary provision of Rs.48 Lakhs as capital cost and Rs.10 Lakhs as recurring during operational phase towards environmental protection measures.

S . N o	Activity	Capacity /Area/Nos.	Capital Cost (Lakhs)	Recurring Cost (Lakhs)
1	STP	150 KLD	30.0	5.0
2	Landscaping & Planting trees	100.0	3.0	1.0
3	Solid waste Management	482 Kg/Day	5.0	1.5
4	RWH Pit Installation	23.0	5.0	1.0
5	Environmental Monitoring*	Air, Water, Soil & Noise	5.0	2.0
Total			48.0	10.0

- 18. 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.**
- 19. The SEAC in its meeting held on dated 07-07-2023 recommended the following:**
- A. The proponent may be asked to submit the following for further processing of EC application:**
- a) Previous EC conditions compliance certificate from Regional Office, MoEF&CC, Govt of India.
 - b) NOC/permission from concerned authority for drainage to discharge treated water to public drain.
 - c) Ensure that the differences between the reduced level of bottom of rainwater harvesting pits and the reduced level of ground water during rainy season are adequate for effective discharge of collected rainwater and submit the report along with correct total no. of rainwater harvesting pits.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

d) Comparative statements of all the physical and environmental parameters in tabular form of both previous project for which EC obtained and proposed modification for which EC applied.

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

- i) Environmental settings of the project site.
- ii) To ensure how much construction activities has been completed.
- iii) Road connectivity to the project site.
- iv) Drainage network at the site.
- v) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- vi) 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	Views of SEAC
1.	Previous EC conditions compliance certificate from Regional Office, MoEF&CC, Govt. of India.	Till now, we have not started any work or activity in the proposed area. The previous EC condition compliance has been attached for your reference as Annexure-I .	Previous EC conditions compliance certificate from Regional Office, MoEF&CC, Govt. of India has not submitted.
2.	NOC/permission from concerned authority for drainage to discharge treated water to public drain.	Permission for discharge of treated water to the drain has applied near the authority has been attached for your reference as Annexure-II .	Permission for discharge of treated water to the drain has been applied by PP copy of it has been submitted.
3.	Ensure that the differences between the reduced level of bottom of rainwater harvesting pits and the reduced level of ground water during rainy season are adequate for effective discharge of collected rainwater and submit the report along with correct total no. of rainwater harvesting pits	The ground water level of RWII pit of rainy season and non-rainy season has been attached for your reference as Annexure-III .	The reduced level of bottom of rainwater harvesting pits is 2.4 meters and reduced level of groundwater table during rainy Season as 3.5 meter and summer season recorded as 5.0 meters. Capacity of Recharge pit is 12.97 Cubic Meters.
4.	Comparative statements of all the physical and environmental parameters in tabular form of both previous project for which EC obtained and proposed modification for which EC applied.	Comparative statements of all the physical and environmental parameters in tabular form of both previous project proposed modification has been	Submitted



attached for your reference
as Annexure-IV.

The proposed site was visited by the sub-committee of SEAC on 21.09.2023. Following are the observations of the sub-committee

- a) PP was present along with other team members. It was observed that the site is adjacent to the road which is connected to Puri-Bhubaneswar bypass road.
- b) The site was clean excepting a small outhouse, which PP informed is temporary for worker and will be demolished once construction is over.
- c) The road side has no drain at present. The PP informed to connect the excess treated water to the nearest Nalla (about 500 mts away) for which they have to take necessary Permission from the concerned authority. PP has informed us they have already applied to Drainage wing of Water Resource Department to obtain the permission. Hence, PP is advised to submit the relevant documents.
- d) The party is advised to submit the detail lay out plan for internal drainage system and discharge of drainage point.
- e) No trees are there, so green belt of minimum 20% to be developed.
- f) The traffic study vetted by a reputed institute is to be submitted.
- g) Documents asked during presentation needs to be submitted.

22. The project proponent has furnished drainage map till 500meters has been submitted with due application by the PP, to Chief Engineer, Drainage, Cuttack.

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.

- 2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 13.11.2023 and the SEAC recommended for grant of modified Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – F** in addition to the following specific conditions for Residential Building Project (S+5) storied over a built-up area 24390.045sqm.
- a) "Khatian" (Patta after Mutation) for the entire land from the appropriate Revenue Authority with 'Kisam' as Gharabari shall be obtained along with ownership before which construction work shall not start. **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.**
- b) **The Proponent shall obtain permission from the appropriate authority for discharge of excess treated water if any to the nearest existing drain. 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. For construction of drain, the land shall be made encroachment free by the appropriate authority and drain shall be constructed thereafter with required permission including permission to discharge treated water.**
- c) **NOC/Permission for additional water requirement for 18KLD shall be taken from CGWA. Permission for ground water usage shall be taken from Water Resources Department, Odisha.**
- d) The proponent shall use solar energy of 5% as proposed with installation of PV cell of required capacity.
- e) To reduce discharge of treated water to open drain, the proponent shall use more water for increased number of trees proposed to be planted in the green belt area & shall also utilize this treated water for car washing, floor washing to minimize the surplus discharge to drain.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- (b) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- (c) All the compliances submitted/ committed by PP (s) shall be strictly adhered to by them.

Decision of Authority: Approved

After detailed deliberation in the matter, the authority allowed amendment in EC in the built-up area from 22250.248 sq. mtr to 24390.045 sq. mtr and the configuration of the proposed building to be S+5 storied (2 blocks) for the project. The amendment in EC will be in superstation to previous EC.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA



PARIVESH 1.0, AGENDA No.155.05

Proposal No	SIA/OR/MIS/295733/2022
Date of application	06.01.2023
File no.	623/SEIAA
Project Type	Proposal for Amendment of EC
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction Project
Name of the Project	Proposal for Amendment of EC of proposed Multistoried Hotel building 2B+G+7 within a plot area of 12140.55 sqm and built-up area of 22999.81 sqm at Mouza - Jaydev Vihar, Bhubaneswar, Khorda
Name of the company/Organization	M/s. Swami Resorts Private Limited
Location of Project	at Jaydev Vihar, Bhubaneswar.
ToR Date	N/A
Name of the Consultant	M/s P and M Solution, Noida

Proposal in brief:

1. This proposal is for Amendment of Environmental clearance of M/s Swami Resorts Pvt. Ltd. of M/s Swami Resorts Pvt. Ltd. for proposed Multistoried Hotel building 2B+G+7 within a plot area of 12140.55 sqm and built-up area of 22999.81 sqm at Mouza - Jaydev Vihar, Bhubaneswar, Khorda of Sri Shivam Asthana.
2. **Category:** This project falls under Category B of Schedule 8(a) - Building and Construction projects as per EIA Notification, 2006 and its subsequent amendments.
3. **Project details:** M/s Swami Resorts Pvt. Ltd. had earlier applied for Environmental Clearance (Letter No. - SRPL/ EC/02/13-14 dated 27.07.2013) for the proposed hotel building with 2B+G+11 storied with built up area of 55909.46 sqm. Environmental Clearance had been granted by SEIAA to the proposed hotel building through Ref No. - 623/ SEIAA on dated 19.04.2014 for a period of 5 (five) years. But due to financial constraints of the project proponent and Covid Pandemic situation, the project could not be started on time. Now, the built up area of the hotel building has been revised from 55909.46 sqm to 22999.81 sqm and the configuration of the proposed building has been changed from 2B+G+11 to 2B+G+7 storied.
4. Approval of the revised built up area and building plan has been approved by Bhubaneswar Development Authority through letter no. 25537/ BDA dated 30.06.2022.
5. As the built up area and the configuration of the proposed hotel building has been changed and the validity of previous EC was for a period of 5 (five) years, the proposal requires Amendment in EC from the State Environment Impact Assessment Authority (SEIAA).
6. **Location and connectivity:** The proposed hotel project site is located at Plot No- 55/4085, 56/4086, 57/4087, 63/4088, Khata No- 1426/1488 in Mouza- Jayadev Vihar of Kherda district, Odisha. The proposed project site covered in the Survey of India Topo sheet no. 74 H/11, 74 H/12, 74 II/15, 74 II/16. The geographical co-ordinates of project site are Latitude 20° 18' 15.32" N to 20° 18' 21.68" N and Longitude 85° 49' 11.73" E to 85° 49' 17.92" E. The proposed site located in Mouza- Jayadev vihar is well connected with public roads and is at a prime location in the city of Bhubaneswar. The entry and exit gates of the proposed project will be connected with the 200 ft.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



wide Nandankanan - Jayadev Vihar road. An external 100 ft. wide pwl road is proposed on the North west side of the project site. Nearest NH is NH – 16 at 1.20km. Bhubaneswar Railway station is at 7.4km. Nearest airport is Biju Patnaik International Airport at 6.8km. Nearest reserve forest is Chandaka RF at 17km. Nearest river is Kuakhai river at 6km. The site is plain without any major vegetation or trees.

7. **Area Statement:** The proposed project is a multistoried hotel building comprising of 2B+G+7 floors. The total area of project site is 12140.55 m².

Parameters	Area details
Plot Area	12140.55 sqm
Ground Coverage	3182.0 sqm (26.21 %)
Total Built up Area	22999.81 sqm
Total FAR Area	11810.03 sqm
FAR	0.973
Maximum Height	31.80 mtz
Paved Area	4488.55 sqm
Parking Area	8611.65 sqm
Green Belt Area	4469.0 sqm (36.81%)
Estimated Population- Commercial	806nos.

Comparative area details of Previous EC granted and Proposed Amendment of EC

Sl. No	Details of Hotel Building	Previous Configuration (EC granted by SEIAA)	Proposed Configuration
i)	No. of Floors	2B+G+11	2B+G+7
ii)	Built up Area	55909.46 sqm	22999.81 sqm
iii)	Built up Area (Excluding Basement)	33352.50 sqm	14388.16 sqm
iv)	Building Height	50.0 m	31.80 m
v)	Water Requirement	320.0 KLD	227.0 KLD
vi)	Fresh Water Requirement	250 KLD (PHED Supply)	117.0 KLD (Ground Water)

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

vii)	STP Capacity	285 KLD	150 KLD
viii)	STP Technology	FAB/FMR	SBR
ix)	Treated Waste water	243 KLD	105 KLD
x)	Total Green Belt Area	2621.26 sqm (21.6%)	4469.0 sqm (36.81%)
xi)	Total Parking Area	20020 sqm	8611.65 sqm
xii)	Recharge pit dimension	6m x 3m x 3m	1.53m x 3.05m x 1.22m

3. **Water requirement:** The total water requirement is approx. 227 KLD, out of which total domestic water requirement is 139.0 KLD. The fresh water requirement is approx. 117.0 KLD. The hot water requirement proposed in the hotel building will be around 15.0 KLD.NOC from CGWB is obtained vide application no. CGWA/NOC/INF/ORIG/2023/16363 for 100KLD valid till 19.09.2027.
4. **Waste water generation and management:** It is expected that the project will generate approx. 117 KLD of wastewater. The wastewater will be treated in onsite STP of 150 KLD capacity. The treated effluent will be reused for flushing, greenbelt, fire fighting, HVAC and miscellaneous uses like car washing, road washing. Surplus treated effluent during rainy season will be discharged to external sewer.
5. **Rain water harvesting:** Rain water harvesting has been catered to and designed as per the guideline of CGWA. Peak hourly rainfall has been considered as 140 mm/hr. The de silting pits of dimensions 1.5mx3.05mx1.22m and the recharge pit of diameter 1.20 m and depth of 3.0 m is constructed for recharging the water. 33nos. of rainwater harvesting pits at selected locations is proposed, which will catch the maximum run-off from the site and volume of rainwater to be harvested will be 230.69 Cum.
6. **Solid waste generation:** During the operation phase, estimated quantity of the waste shall be approx. 340.0 kg per day (@ 0.5 kg per capita per day for total occupancy and landscape waste @ 0.2 kg/acre/day) which will be segregated into biodegradable and non-biodegradable dustbins. Proper waste management practices will be adopted during collection, storage and disposal of the generated solid waste, construction and demolition waste.
7. **Fire Fighting:** Fire fighting system will be installed as per recommendation of Odisha Fire Service Department and as per the guideline of NBC (part-4). The height of the building is upto 31.80 mts. Internal roads of 7.5 mt width has been demarcated for movement of fire vehicle.
8. **Power requirements:** Electricity requirement for the hotel building will be 1096.37 KW which will be supplied from State Electricity Board, Bhubaneswar, Odisha. Out of the total electricity requirement, 740.64 KW will be required for common area and street lighting. There will be electrical distribution transformers within the project site. DG Set rating of 2 no. 500 KVA and 1 no. 380 KVA has been proposed for the hotel building to provide supply considering the critical loads for each application.
9. **Solar power:** The solar power provided is for 33.66 KW of the total demand load which comes around 3.0% of the total demand. The required number of solar panels is 157 nos. The solar load will be augmented as per demand during the operational phase of the project.
10. **Parking details:** The hotel building has proposed ample provision for car/ vehicle parking at the proposed project site and as approved by Bhubaneswar Development Authority. Provisions for scooter parking is also taken into account in addition to covered parking & open parking. Total Parking area proposed is 8611.65 sqm/270 F.C.S i.e. 40% of Proposed F.A.R.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Greenbelt: Total green area measures 4469.0 m² which is 36.81 % of the total plot area. Total no. of trees proposed in the project is 152 nos. Evergreen tall and ornamental trees have been proposed to be planted of the local species like Cadamba, Cassia, Jacaranda, Bauhinia, inside the premises.

17. **Project cost:** Total cost estimate for the proposed project is Rs. 121 crores and Environmental management cost will be 82 Lakhs.
18. **Environment Consultant:** The proponent along with the consultant M/s P and M Solution, Noida, made a detailed presentation before the SEAC on 13.01.2023.
19. The SEAC in its meeting held on dated 13-01-2023 decided to take decision on the proposal after receipt of the following from the proponent followed by site visit by the sub-committee of SEAC.
20. The proponent has furnished the compliance and the SEAC verified the same as follows:

S L N o	Information Sought by SEAC	Compliance furnished by the proponent
1.	Certificate from concerned DFO that project land does not fall within Eco-Sensitive Zone of Chandaka - Dampara and Nandankanan Sanctuary.	The NOC letter from DFO, Chandaka - Dampara and Nandankanan has attached for your reference as Annexure - I .
2.	Copy of letter of GA Department about clarification that no involvement of forest land in the project area.	Copy of letter of GA department has attached for your reference as Annexure - II .
3.	Traffic study report vetted by a reputed institution.	Traffic study report vetted by KIIT university has attached for your reference as Annexure - III .
4.	Copy of lease deed/land ownership.	Lease deed copy has attached for your reference as Annexure - IV .
5.	Detailed calculation for parking area.	Detailed calculation regarding parking area has attached for your reference as Annexure - V .
6.	Status of amendment of all statutory clearances from concerned departments, as per the revised built-up area.	We have intimated to the concerned authorities about amendment of revised built-up area and the same will submit near you after getting NOC from the departments.
7.	Justification with supporting documents that EC granted earlier is valid now.	Application regarding validity of EC has attached for your reference as Annexure - VI .
8.	Status of permission from BMC for discharge of treated water to drain.	Permission from BMC for discharging of treated water to drain has applied near the authority. We



will submit near you after getting the same. Kindly consider it.

21. The proposed site was visited by the sub-committee of SEAC on 24.03.2023. Following are the observations of the sub-committee

- a) PP and Consultant were present. No construction initiated at the project site but deep soil excavation was done to which the PP explained that it was done on getting previous FC.
- b) Drain is available in front of the land at road side. But permission needs to be obtained.
- c) No trees planted; thus, green belt development is necessary as per norm.
- d) The important point is, the layout of land physically shown and the layout presented are completely different. There is no boundary at one side, so demarcation is yet to be done. PP said there is some encroachment by slum people. In view of this, it was informed to PP to submit the following two documents:
 - i) Land layout with dimensions and area certified by GA department with allotment document.
 - ii) BDA letter that the building plan is approved on the same layout certified by GA department.
- e) All documents asked during presentation to be submitted.

22. 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. 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.	Land layout with dimensions and area certified by GA department with allotment document.	The GA department allotment document for the proposed land layout with dimension has been attached for your reference as Annexure-I .	Copy submitted
2.	BDA letter that the building plan is approved on the same layout certified by GA department.	Copy of Clarification letter regarding the approval of Building plan has been attached for your reference as Annexure-II .	Copy submitted

Considering the information furnished and the presentation made by the consultant, M/s P and M Solution, Noida, along with the project proponent,

3. **Whether SEAC recommended the proposal –** The proposal was placed in the SEAC meeting held on 12.11.2023 the SEAC recommended for grant of modified Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure-E** in addition to the following specific conditions for proposed 2B + G+7 Multistoried Hotel building over a built-up area 22999.81 sqm.

- i) "Khatian" (Patta after Mutation) for the entire land from the appropriate Revenue Authority with 'Kisam' as Gharabari shall be obtained along with ownership before which construction work shall not start. 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 from the appropriate authority for discharge of excess treated water if any to the nearest existing drain. 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. For construction of drain, the land shall be made encroachment free by the appropriate



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

authority and drain shall be constructed thereafter with required permission including permission to discharge treated water.

- iii) The proponent shall use solar energy of 5% as proposed with installation of PV cell of required capacity.
- iv) To reduce discharge of treated water to open drain, the proponent shall use more water for increased number of trees proposed to be planted in the green belt area & shall also utilize this treated water for car washing, floor washing to minimize the surplus discharge to drain.
- v) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- vi) From the ADS the ownership of 2 names (Kirti Ch Mohanty and Shivam Asthani) are appearing in different documents (GA and BDA). Thus, BDA before final approval to ensure the ownership of the land and its physical dimensions.
- vii) All the compliances submitted/ committed by PP (s) shall be strictly adhered to by them.

Decision of Authority: ADS

After detailed deliberation on the matter, the authority decided that the PP shall submit the following information / documents:-

- i) The ownership of land is in 2 names i.e. Kirti Charan Mohanty and Shivam Asthani which are appearing in different documents (GA and BDA) as different. The PP shall submit documents in related to ownership of land.
- ii) Permission from BMC for discharge of storm water / treated water to drain to be submitted.

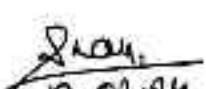
APPROVED BY



Member Secretary, SEIAA



Member, SEIAA



Chairman, SEIAA
13.02.24

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



PARIVESH 1.0, AGENDA No.155.06

Proposal No.	SIA/OR/INTRA2/451679/2023
File No.	451679/517-INTRA2/11-2023
Date of application	07.11.2023
Project Type	New proposal for EC coming under violation category as building already constructed
Category	B1
Project/Activity including Schedule No.	8(b) Area Development Project
Name of the Project	Proposal for Environmental Clearance of M/s. XIM University for Construction of New Hostel Block Building of XIM University Bhubaneswar over an built up area of existing campus is having total built-up area 1,68,230 sqm. (Existing-1,44,160.0 sqm. + proposed built-up area 24,077.0 sqm) over plot an area-2.22,575.40 sqm. /55 acres at Plot No. 12(A), Nijigada Kurki, Haritajpur, Dist- Puri of Sri Basant Kumar Mohanty-Violation EC
Name of the company/Organization	Basant Kumar Mohanty, Administrative Officer
Location of Project	Plot No. 12(A), Nijigada Kurki, Haritajpur, Dist- Puri
Date of issue of ToR	15.09.2023
Name of Consultant	M/s Centre for Envotech & Management Consultancy Pvt. Ltd, Bhubaneswar

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 SEIAA, are given as under.

This proposal is for Environmental Clearance of M/s. XIM University for Construction of New Hostel Block Building of XIM University Bhubaneswar over an built up area of existing campus is 144160.0 sqm at No. 12(A), Nijigada Kurki, Haritajpur, Dist- Puri of Sri Basant Kumar Mohanty.

Category: The project falls under category "B" or activity 8(b): Township & Area Development Projects under EIA Notification dated 14th September 2006 as amended from time to time.

Project details: Earlier, the project proponent had applied for Environment Clearance to SEIAA on 15.09.2014 for 1,44,160.0 sqm Built up Area and the SEAC presentation was held on 29.11.2014. But as per the Gazette of India, Notification dt: 22nd Dec., 2014; Educational Institutes having less than 1,50,000 sq. mtrs. of buildup area are exempted from obtaining Environmental Clearance. So other project are exempt from obtaining Environment Clearance. Now, they have planned to increase the built up area from 1,44,160.0 sqm to 1,68,237.0 sqm due to Construction of a New Hostel Block. Hence, they are applying herewith for Environment Clearance.

Statutory clearances: Terms of Reference (TOR) under violation category has been granted by SEIAA, Odisha vide proposal no. SIA/OR/MIS/76437/2022, dated 15.09.2023.

BDA has approved the building plan for Hostel Block vide letter no. 4308/BDA, Bhubaneswar, dated 06.02.2023. BDA has approved the building plan for existing project vide letter no. 15450/BDA, Bhubaneswar, dated 30.04.2022, NOC from IDCO for Water Supply vide letter no. IDCO/BCD-II/900, Dated 18.07.2012.

Location and Connectivity – The campus is located in the Village- Kurki, Mouza- Nijigarh under Pipili Block, Puri District of Odisha. The Geographical coordinate of the project site is, Latitude - 20° 09' 22.18"



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

N & Longitude - 85° 45' 59.36" E. The site falls in the Survey of India toposheet no. 73H/12 & 73H/16. The site is located about 13.8 kms away from the Baramunda Bus Stand and 11.5 kms from the Biju Patnaik International Airport, Bhubaneswar. Bhubaneswar railway station is approximately 14.7 kms from the campus. Sundarapadu-Jatani road is passing near by the project site.

The site is coming under Bhubaneswar Development Authority (BDA).

The total plot area = 2,22,575.40 sqm/55 Acre (Existing- 35 Acre and Additional- 20) Total Built up Area = 1,68,237.0 sqm (Existing- 1,44,160.0 sqm and Additional- 24,077.0 sqm)

The Building Area Details of the Project in tabulated form

Particular	Existing	Proposed	Total
Plot Area	1,41,169.0 sqm (35 Acre)	81,406.4 sqm (20 Acre)	2,22,575.40 sqm (55 acre)
Ground Coverage	31,389.0 sqm (14.10%)	2,781.0 sqm (1.35%)	34,165.3 sqm (15.35%)
Total Built up Area	1,44,160.0 sqm	24,077.0 sqm	1,68,237.0 sqm
FAR	0.63	0.11	0.74
Maximum Height	--	--	28.35 m
Road & Paved Area	--	--	47,187.1 sqm
Basement Parking	1,050.0 sqm	--	1,050.0 sqm
Stilt Parking	1,538.0 sqm	--	1,538.0 sqm
Surface Parking	55,438.0 sqm	11,862.0 sqm	67,300.0 sqm
Total Parking Area	58,026.0 sqm	11,862.0 sqm	69,888.0 sqm
Green Belt Area	29,075.0 sqm	44,848.0 sqm	73,923 sqm (33.2% of the plot area)
Power/Electricity Requirement & Sources	3420.0 KW Source: TPCODL	--	3420.0 KW Source: TPCODL
No. of DG sets	4x250 KVA. 2x500 KVA. 2x1010 KVA. 1x125 KVA. 1x62.5 KVA.	--	4x250 KVA. 2x500 KVA. 2x1010 KVA. 1x125 KVA. 1x62.5 KVA.
Fresh Water requirement & Sources	192.0 KLD Source: IDCO Supply	81.0 KLD Source: IDCO Supply	273.0 KLD Source: IDCO Supply
Sewage Treatment Plant	STP 300 KLD	STP – 250 KLD	STP 550 KLD

Water requirement: Fresh make up of 273.0 m³/day will be required for the project which will be sourced from IDCO Water Supply. Total waste water generated from the institutional building is 353.4 K.L.D which is treated in STP of Capacity 550 KLD. Rain Water harvested through 82 nos. of Rain Water recharging pits & also rain water is harvested through Rain Water Harvesting Pond.

Sl. No.	Description	Total Population	Per Capita Consumption(ltr/day)	Water Requirement (KLD)		
				Domestic	Flushin g	Total
1	Institutional	3000 nos.	Fresh (90) Flushing (45)	270.0	135.0	405.0

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



Facility	600 nos.	Fresh (2)	Flushing (10)	3.0	6.0	9.0
				273.0	141.0	414.0

Details	Water (KLD)
Water requirement for domestic purpose	273.0
Wastewater generated from domestic use (@ 80 % of domestic water requirement)	218.4
Water requirement for Flushing Purpose	135.0
Wastewater generated from Flushing (@ 100 % of flushing requirement)	135.0
Total Wastewater generated	218.4+135 = 353.4 KLD
Sewage Treatment Plant Capacity	550 KLD (0.55 MLD)
STP Loss (5 % of wastewater generation)	17.7
Recycled water form STP (@ 95 % of wastewater generated)	35.7

- Power requirement: Total Power requirement of the building is 3420.0 KW. Source is TPCODI, 4x250 KVA, 2x500 KVA, 2x1010 KVA, 1x125 KVA, 1x 62.5 KVA DG Sets are provided. Total 620.0 KW Solar Power Generation which is 5% of total power required in project

Power Requirement	3420.0 KW
Source	TPCODI, of Odisha State Electricity Board
Backup Power	4x250 KVA, 2x500 KVA, 2x1010 KVA, 1x125 KVA, 1x62.5 KVA
Solar Power	620 Solar Panel installed at Campus

- Rain Water Harvesting: Total 4584 cum Rain Water is harvested through 82 nos. of recharge pits & one 60,000 cum Rain Water Harvesting Pond,

- Parking Requirement: Total parking area provided is 69706.0 Sq.mt. and total 2780 nos. of PCS and location of parking area is Basement, Stilt & Open.

Parking Area Provided			
Basement Parking	--	--	1,050.0 sqm
Stilt Parking	--	--	1,538.0 sqm
Surface Parking	--	--	67,300.0 sqm
Total Parking	--	--	69,888.0 sqm
Equivalent car space Provided			
	Area (sqm)	Area/EC S	

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



Basement Parking	1,050	32	33 ECS
Stilt Parking	1,538	28	55 ECS
Surface Parking	67,300	35	2,692 ECS
Total Parking Provided			2,780 ECS

Fire fighting Installations: Fire Fighting will be provided as per NBC Norms.

Green Belt Development: Green belt is developed over an area of 73923 sqm which is 33.2% of the total plot area. Total 4440.0 nos. of plants to be planted and 3 tier plantation.

Solid Waste Management: Solid waste generated and its management.

Solid Waste Generation

Description of waste	Total no. of population	Per capita generation of waste in kg/day	Quantity of waste generate (in kg/day)
Institutional Building	3000	0.45	1350.0
Road Sweeping	600	0.15	90.0
STP sludge		—	40.0
TOTAL SOLID WASTE GENERATED			80.0kg/day

Project cost: The estimated project cost is 15.0 Crores and cost for EMP is 2.62 Crores.

Violation penalty: The Penalty Provisions as per Notification E. No. 22-21/2020-IA.III, dated 07.07.2021 is 1% of the total project cost. The cost assessment related to environmental degradation and its remediation as stated above would be: Rs. 7,20,000/-

Table: Total Budgetary Allocation

Sr. No.	Description	Estimated Cost (Rs.)
1.	Estimated cost of damage/remediation with respect to ecological aspects	7,20,000.00
2.	Community resource augmentation plan	1,50,000.00
	Net Expenditure:	8,70,000.00

Environment Consultant: The Environment consultant M/s Centre for Envitech & Management Consultancy Pvt. Ltd, Bhubaneswar along with the proponent made a presentation on the proposal before the Committee. The Committee observed the followings:

- Cost proposed for Remediation Plan, Community Resource Augmentation Plan for Damage Assessment is Rs. 8,70,000.00/- (Rupees eight lakhs seventy thousand only).
- Cost of assessment of Environmental / Ecological damage due to violation is Rs. 7,20,000.00/- (Rupees Seven lakhs and twenty thousand only).
- Total cost towards Remediation Plan, Natural Resource Augmentation Plan for Damage Assessment & assessment of Environmental / Ecological damage is Rs. 8,70,000.00/- (Rupees eight lakhs seventy thousand only) for which the proponent has to submit Bank guarantee with the State Pollution Control Board, Odisha prior to the grant of Environmental Clearance.
- Total cost of the project is Rs. 15.01 Crores as certified by Chartered Accountant and 1% of the project cost is Rs.15,01,758.
- Total penalty to be paid by the proponent as per SoP of MoEF & CC, Govt. of India dtd. 07.07.2021 for violation is (1% of the project cost) – Rs.15,01,758.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



- i) This is an educational institution and they have not started any activity from which they will gain profit. Hence the annual turnover in this case is zero.
- g) There is no information available with the SEAC, if the State Govt. has initiated legal action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
- Any deficiencies/omission have been noticed in the above documents- Nil
2. Whether SEAC recommended the proposal Yes, the proposal was placed in SEC meeting held on 02.12.2023 and the SEAC recommended for grant of Environmental Clearance for the project valid for a period of 10 years with the following specific conditions in terms of the provisions of the MoEF&CC, Govt. of India notification dated 14th March, 2017 in addition to the conditions stipulated as per **Annexure – B. However, EC to be issued to the proponent after State Government file legal case against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.**
- a) The Project Proponent shall submit a Bank Guarantee (BG) of an amount of Rs. 8,70,000.00/- (Rupees eight lakhs seventy thousand only) towards Remediation Plan, Natural Resource Augmentation Plan & Community Augmentation Plan for Damage Assessment & assessment of Environmental / Ecological damage with the State Pollution Control Board, Odisha prior to the grant of Environmental Clearance.
- b) The proponent shall deposit separately (other than BG) an amount of Rs.15,01,758 towards the penalty for violation as per SoP of MoEF & CC, Govt. of India dtd. 07.07.2021.
- c) The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC, Odisha and approval of the regulatory authority (i.e. SEIAA, Odisha).
- d) The project proponent shall make adequate arrangement for environmental monitoring post construction phase.
3. The proposal was placed in 146th SEIAA meeting held on 11.12.2023. The Authority perused the recommendation of SEAC and decided that EC shall be considered on compliance of the following:
- a) The State Govt. to file legal case against the PP under the provision of Section 19 of the E.P Act 1986.
- b) The PP to submit the compliance report from the MoEF&CC Regional Office, Bhubaneswar to ensure sustainable environmental management in pursuance of OM No. F.No. 19-2/2013-IA-III dated 09.06.2015 read with Notification No. SO. 3252 (E) dt. 22nd December, 2014 under EIA Notification, 2006.
- c) The Project Proponent shall submit a Bank Guarantee (BG) for an amount of Rs. 8,70,000.00/- (Rupees eight lakhs seventy thousand only) towards Remediation Plan, Natural Resource Augmentation Plan & Community Augmentation Plan for Damage Assessment & assessment of Environmental / Ecological damage with the State Pollution Control Board, Odisha prior to the grant of Environmental Clearance. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC, Odisha and approval of the regulatory authority (i.e. SEIAA, Odisha).
- d) The proponent shall deposit separately (other than BG) an amount of Rs.15,01,758 towards the penalty for violation as per SoP of MoEF & CC, Govt. of India dtd. 07.07.2021.
4. Now, the PP has submitted bank guarantee (BG) & Penalty amount. The RO, MoEF & CC, BBSR has submitted the certified EC compliance report through SEIAA, Odisha Email on 06.02.2024.

Decision of Authority: For further consideration

The Authority noted that the PP has submitted the application as per MoEF & CC, Govt. of India office Memorandum (O.M.) dt. 07.07.2021 and subsequent clarification dtd. 28.01.2022 regarding the SOP for identification and handling of violation cases under EIA Notification 2006.

In the meantime, 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.



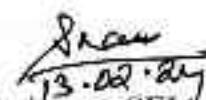
Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

In view of this and after detailed deliberation, the Authority decided that grant of EC including transfer of EC in cases involving violation is not permissible until further orders of Hon'ble Supreme Court. Hence, the application is deferred for further consideration.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


13-02-2024
Chairman, SEIAA

**PARIYESH 1.0, AGENDA No.155.07**

Proposal No.	SIA/OR/MIN/445425/2023
Date of application	22.09.2023
File no.	445425/110-MINB/09-2023
Project Type	Proposal for Expansion of production capacity
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC for Enhancement in Production of Iron ore from 0.41 million TPA to 3 million TPA ROM with total excavation of 4.073 million TPA (ROM of 3 million TPA + 1.073 million TPA waste) and setting up a 100 TPH Jigging & Washing Plant, two mobile Jaw Crushers of 200 TPH capacity each, two mobile Cone Crushers of 200 TPH capacity each & two Vibratory Dry Screen Plants of 200 TPH Capacity each in Sanindpur Iron & Manganese Mines over an area of 70.917 ha. of M/s National Enterprises
Name of the company/Organization	National Enterprises
Location of Project	Village- Sanindpur under Block & Tehsil- Koida, Subdivision- Borai, Dist - Sundargarh
ToR Date	03.11.2022
Name of the Consultant	M/s Centre for Envotech and 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 SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s National Enterprises for enhancement in production of Iron Ore from 0.41 million TPA to 3 million TPA ROM with total excavation of 4.073 million TPA (ROM of 3 million TPA + 1.073 million TPA waste) and setting up a 100 TPH Jigging & Washing Plant, two mobile Jaw Crushers of 200 TPH capacity each, two mobile Cone Crushers of 200 TPH capacity each & two Vibratory Dry Screen Plants of 200 TPH Capacity each in Sanindpur Iron & Manganese Mines over an area of 70.917 ha located at Village- Sanindpur under Block & Tehsil- Koida, Subdivision- Borai, Dist – Sundargarh of Sri Charanjit Singh Grewal
2. **Category:** This project falls under Category "B" or Schedule 1(a): Mining of Mineral & 2(b): Mineral Beneficiation as per EIA Notification dated 14th Sept, 2006 and its amendments.
3. The PP has obtained stage-II FC from MoEF & CC, vide file no. 8-10-2015-Pc dt. 06.10.2020 for diversion of 54.399 ha of forest land including safety zone of 6.841 ha within total lease area of 70.917 ha for mining of Iron & Manganese in San-Indupur Mines in favour of M/s National Enterprise in Sundargarh District in Odisha.
4. The project proponent has obtained CFC vide letter no. 5266 dt. 31.03.2023 valid upto 31.03.2024 for production Iron ore 0.41 MTPA.
5. The ML deed executed from 10.09.2000 to 09.09.2020 and supplementary lease deed was made on 30.04.2021 and now, the lease is valid upto 09.09.2030.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- 6. TOR details:** Terms of Reference was issued by SEIAA, Odisha vide letter no: - SIA/OR/MIN/76663/2022 on 03.12.2022 for the proposed project.
- 7.** Sanindpur Iron & Manganese Mines over an area of 70.917 Ha. has obtained Environmental Clearance from MoEF&CC, Govt. of India, vide letter no. J-11015/375/2008-IA. II (M), dated 28.06.2013 for production of 410,000 (0.41 million) TPA of iron ore.
- 8. Public hearing details:** The Public hearing was conducted successfully on 05.04.2023 at 10.00 AM in the weekly market ground of Sanindpur village.
- 9. List of Statutory Clearances obtained earlier -**
- a) Sanindpur Iron & Manganese Mines lease area has 54.399 ha of forest land.
 - b) Permission letter has been obtained from Water Resources Deptt, Govt. of Odisha for use of 50000 litres/day (0.02cusec) of surface water from Teheri nala.
 - c) The modification of Review of Mining Plan for enhancement of production capacity from 0.41 million TPA to 3 million TPA due to change in working proposals for the balance plan period from 2022-23 to 2024-25 is approved by IBM Regional Office, Bhubaneswar vide letter no. MRMP/A/36-ORI/BIIU/2021/22, dt. 23.03.2022.
 - d) The DFO, Bonai had issued show cause for violating the section 7 of FC Act 1980 and requested to stop mining within DLC land vide letter No. 4344/6F on dated 22.08.2009.
 - e) Mining operation within lease area was stopped by the Deputy Director of Mines, Koirā from 26.08.2010 on the ground of non-maintenance of environmental clearance as required under FIA Notification 2006. Later, the mining operation within the lease area restarted in June, 2021 only after obtaining the permission from the DDM, Koirā vide letter no. 1786/Mines, dated 20.05.2021.
 - f) The Environmental Clearance for production level of 0.41 million TPA of Iron ore has been obtained from MoEF vide letter no J-11015/375/2008-IA.II(M), dated 28.06.2013.
 - g) Stage-II Forest Clearance has also been obtained vide MoEF& CC letter No. 8-10/2015-FC, dated 06.10.2020 over an area of 54.399 ha. (Including safety zone of 6.841 ha.)
 - h) Consent to Operate has been issued by SPCB, Odisha vide order No. 5118/IND-I-CON-5633, dated 26.03.2021 and valid up to 31.03.2022. Later the validity of CTO was extended till 31.03.2023 vide letter no. 5136/IND-I-CON-5633 on 30.03.2022.
 - i) The PP has submitted certified compliance report dt. 28.08.2023 of IRO, MoEF & CC, BBSR
- 10. Location and connectivity:** Sanindpur Iron & Manganese Mines is coming under village Sanindpur of Bonai Sub-division in Sundargarh District. It is located at a distance of 6km from Koida Town which is in WSW direction from the project site. A concrete road connecting Rugudihi (11 km from project site in north direction) to Koida via Katusahi & Sanindpur runs at a distance of 350m from the proposed mines. Both Rugudihi & Koida are located on NH-520, Sundargarh, the district head quarter and Bonai, the sub-divisional headquarter are 190km (in West direction) & 58km (in SW direction) away respectively. State capital Bhubaneswar is 290km away; Barbil, the nearest railhead of SE railway is situated at a distance of 30km in NE direction and Barsua railway siding is at a distance of 35km in SW direction. Veer Surendra Sai Airport, Jharsuguda is 180km away whereas Biju Patnaik International Airport, Bhubaneswar is 290km in South of the project site. Village Sanindpur is located 500m away in the west of the Mining Lease area. The nearest water bodies are Teheri nallah and Suna nallah, which merges at the southern boundary of the lease area and passes along the eastern side of the mining lease. The project falls under Survey of India bearing Topo sheet no. F45N5 (73 C/5). Simlipal Biosphere Reserve is 71.1km from the project site.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

11. Baseline study conducted: Baseline study was conducted during post-monsoon season of 2022 i.e. from 1st October 2022 till 31st December, 2022.

Ambient air monitoring: Ambient Air Quality was monitored at eight sampling stations, which were selected taking into account the predominant wind direction, population zone, sensitive receptors like reserved forests etc., and the monitoring were conducted for a period of three months with the frequency of monitoring for 2 days per week at each sampling station. All the 12 air quality parameters were coming within the range as specified by CPCB. PM₁₀ is within range of 64.1 $\mu\text{g}/\text{m}^3$ to 79.4 $\mu\text{g}/\text{m}^3$, PM_{2.5} is within range of 31.2 $\mu\text{g}/\text{m}^3$ to 43.9 $\mu\text{g}/\text{m}^3$, SO₂ is within range of 4.14 $\mu\text{g}/\text{m}^3$ to 8.98 $\mu\text{g}/\text{m}^3$ and NO_x is within range of 10.18 $\mu\text{g}/\text{m}^3$ to 25.44 $\mu\text{g}/\text{m}^3$.

b) Water quality monitoring: Water quality parameters of Five Surface and Five Ground water resources within 10km radius of the study area was studied to assess the water environment and evaluate anticipated impact of the project. The water samples were collected and analyzed for physical, chemical and microbiological characteristics as per CPCB guidelines and approved methods in the NABL and MoEF&CC accredited laboratory. The result of all the surface & ground water samples collected shows that the water quality are within the permissible norms stipulated by CPCB.

c) Ambient Noise monitoring: Noise level in the study area was monitored at eight sites. The measurements were carried out continuously for the 24-hour period. Noise levels vary from 48.59 to 67.48 dB(A) during daytime and 37.46dB(A) to 54.8 dB(A) during night time. It is, therefore, concluded that the noise levels within the habitation/ residential area are well within the specified standards.

d) Soil monitoring: Soil samples were collected from five locations including one from project site; from 30 cm depth with a stainless-steel scoop. The pH of the samples ranged from 6.28 to 6.84 which is slightly acidic for agricultural soils and the bulk density varies from 1.24 to 1.38 gm/cc. The soils are of medium fertility and may require addition of fertilizers during plantation and greenbelt development.

12. Water requirement: The total water requirement shall be 75 m³/day for mining operation and 440 KLD for Jigging Plant operation. Out of the 75 KLD water, 15 KLD will be used for drinking and washing purpose, 55 KLD for dust suppression in haul road, screening, crushing area & wheel washing and 5 KLD will be consumed by plantation. The company has permission to draw 50 KLD water from Teherai nala, balance 25 KLD water requirement shall be fulfilled from ground water source; after 1 year rain water harvesting ponds shall fulfil the water requirement for non-domestic uses.

13. Wastewater details: About 11 KLD of waste water will be generated from the office, Security camp & washing area. Hence, a 12 KLD SIP based on MBBR technology will be installed to treat the waste water. The treated water will be used in plantation and dust suppression; the sludge will be used as manure in plantation.

14. Rainwater harvesting details: They have planned to implement the techniques of Rain Water Harvesting (RWH) over the roofs of offices, rest sheds and by making percolation tanks in Sanindpur Iron & Manganese Mines in easier to the needs of daily water requirement. The mines have one rain water collection pond of 10m long, 8m wide and 2m deep. Now with the proposed expansion, it has been planned to expand the existing pond to 30m length X 30m width X 3m depth and construct one larger pond of 50m long X 80m wide X 4m deep to store rain water collected from mining pit and mineral storage area.

15. Mining Plan Details:

a) Year Wise Production of Iron Ore :

Production Year	Saleable Ore (+55% Fe) in Ton	Mineral Rejects (45% -55% Fe) in Ton	ROM of Iron ore production in Ton	OB Quantity in cum

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Year (2022-23)	7,00,560	4,35,575	11,36,135 (5,82,500 cum)	1,98,250 (3,96,500 Ton)
4th Year (2023-24)	17,83,740	4,35,050	22,18,790 (10,98,000 cum)	3,79,800 (7,59,600 Ton)
5th Year (2024-25)	23,04,330	6,95,800	30,00,130 (14,94,900 cum)	5,36,470 (10,72,940 Ton)

- b) **Details of Minerals:** Iron ore will be extracted from the mines. There is enhance in production of iron ore to maximum ROM of 30,00,060 (3 million) TPA (23,15,460 TPA of -55% grade iron ore and 6,84,600 TPA of -45 to +55% grade iron ore).
- c) **Method of Mining:** Opencast mechanized method of mining will be adopted with drilling & blasting, on double shift basis with the deployment of 30m/l DTH drill, 5T capacity excavators, 35t capacity dumpers/tippers. The bench height will be maintained up to 9 m and width up to 10 m. The slope of individual bench will be 80° and overall slope of the pit will be 42°. Benches will be formed in a top downward manner. It has been proposed to blast maximum up to 6m high benches to achieve optimum results in term of fragmentation, economy and minimum impact on the surrounding environment. So the depth of hole in this mine will be 10% more i.e. up to 6.6 m. Explosives to be used in ore zone are of Class-II booster & column charge with accessories like ODI, Nonel, Excel, safety fuse & detonating cord. Blasting pattern will be staggered (V type) with delay interval of 25 millisecond. Power factor in development /waste has been assumed to be 7kg/t. Secondary blasting will not be required.
- d) **Details of crushers/screen/beneficiation plant if any with capacity and numbers, water requirement for the project, plantation details, green belt details:** ROM will be upgraded in the ML area in respect of size and grade by way of dry crushing and screening. Dry processing plant in the ML area consists of crushing & screening plants used for iron ore breaking & sizing. There is proposal to install two mobile Jaw Crushers of 200 TPH capacity each, two mobile Cone Crushers of 200 TPH capacity each & two Vibratory Dry Screen Plants of 200 TPH Capacity each. Apart from these, there is proposal to install a 100 TPH Jigging & Washing Plant within the lease, based on Washing & Jigging technology to beneficiate of 0.3 million Tons per Annum (MTPA) of low grade iron ore.
- e) **Number of top soil dumps with area and capacity, no. of waste/reject dump with area and capacity during the plan period and at the conceptual stage, backfilling plan if any:** No top soil will be generated in the mining process as the top surface is lateritic. Solid waste to the tune of 8,96,280m³ (maximum annual production) will be produced and shifted to the dump-III, which is already spread over 3.65 ha. Conceptually the dump occupies 5.951 ha. and maintain the height up to 37m in five tiers. Conceptually, 50% of the waste material will be used in backfilling of mined out area and balance to be used in road maintenance. During the 4th year of mining, backfilling will be started to reclaim 29.32 ha, balance 12.301 ha. will be converted to water body with accumulated rain water.

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

Sl. No.	Head	At present (Ha.)	At the end of SOM Period (Ha.)	At the end of conceptual period (Ha.)
a)	Area under Mining	19.160	33.558	44.990
b)	Overburden / Waste dump	5.060	7.367	7.367



	Mineral storage	14.937	14.957	2.137
	Infrastructure (Office, canteen, rest shelter, weigh bridge, etc.)	1.570	1.570	1.570
g)	Road	1.960	2.212	2.212
i)	Beneficiation Plant area	---	3.000	3.000
j)	Others (settling pond, check dam, gulland drain, etc)	0.101	1.628	1.628
	Sub-Total	42.808	64.292	62.904
h)	Green belt in safety zone	1.350	3.850	3.850
i)	Plantation in untouched areas	1.840	1.840	1.840
j)	Untouched areas	24.919	8.935	2.323
	Total	70,917	70,917	70,917

16. Power Requirement & solar power details: The electricity requirement will be about 40 KW-hr/day and this requirement will be fulfilled by IPWODL (TATA Power Western Odisha Distribution Limited). The company proposed to utilize solar power to the extent possible in order to utilize the renewable source of energy. There is a proposal to install 80 nos. of Solar Lighting Poles (10 near the entry gate, 10 near the exit gate and remaining along the lease boundary). These poles will have individual Solar PV Panels to generate 72-Watt energy, if only 4 hours of clear sunlight available throughout the day time.

17. Solid waste generation: During the process of mining, the only solid waste material to be produced is the top lateritic cover i.e., overburden. The existing dumps have waste materials which are of grade below 45% Fe of Laterite, shale, BHU, BHQ, etc. Solid waste to the tune of 8,96,280m³ (maximum annual production) will be produced & shifted to the dump-III. Conceptually, 50% of the waste material will be used in backfilling of mined out area and balance to be used in road maintenance. Tailings of quantity 31,659 TPA will be generated from the 100 TPH Capacity Mineral Beneficiation Plant based on Washing & Jigging technology to beneficiate of 0.3 million TPA of low-grade iron ore.

18. Mitigation of solid waste produced: The dump will be surrounded by retaining wall of 1.5m height & 1m width. Any rain cut which may develop in dump slope is proposed to be checked by no. of small check dams. Gulland drains at the toe of the dump will be connected to settling tank. Coir matting will be tried to stabilize the waste dump slopes. Gradual reclamation of the entire, waste/overburden dump will be taken up. Three nos. of Slurry Ponds shall be provided to take care of the thickener underflow. The clarified water from the Slurry Pond shall be re-circulated back to both the Circuit. 31,659 TPA of tailing sludge will be sent to the Sludge Bay (Tailing Sludge). The tailing sludge will be dewatered using filter press, the end press mud will be dried in plant area and stored in the Tailing storage area provided. The Dried tailings shall be used for cement industries in manufacturing of cement and in the Brick Manufacturing.

19. Greenbelt Development: Till now 1.35ha of the safety zone is covered by 2000 plantations (but survivability is 50% in 60% due to lateritic top); plantation within the lease area has started only in the year 2020-21. During the conceptual period, 58,300 nos. of plants will be planted on the backfilled area of 29.32ha. Apart from it, 7.367 ha of the conceptual dump area will be terraced & plantation will be developed on each terrace;

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



2.137ha of mineral storage area, 3ha of beneficiation area and 4.2ha Greenbelt area along the Suna Nala will also be covered under plantation.

- 20. Total Employment:** With the enhancement in production there will be scope for additional 52 persons (at present the mines has 52 persons as direct employee) in the leasehold area to carry on the mining and ancillary operations in two shifts. No colony is planned as most of the workers will be from local villages.
- 21. Project Cost:** Estimated Capital cost for the project is 40 crores. The capital cost of EMP after the proposed increase in production is calculated to be Rs 400 lakhs & recurring cost is Rs 90 lakhs. Based on demands in Public Hearing & assessment of local situation, a sum of Rs 35 lakhs will be spent under CSR activities in first two years and Rs 28 lakhs shall be spent every year under developmental activities.
- 22. Environment Consultant:** The Environment consultant M/s Centre for Envotech and Management Consultancy Pvt. Ltd, Bhubaneswar along with the proponent made a presentation on the proposal before the Committee.
- 23.** The SEAC in its meeting held on dated 13-10-2023 decided to take decision on the proposal after receipt of the following information/documents from the proponent: The proponent has furnished the compliance and the SEAC verified the same as follows:

S I. N o	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Site Specific Wildlife Conservation Plan furnished was obtained in 2014. In view of enhancement of production, it shall be revisited by the concerned DFO in consultation with Chief Wildlife Warden to modify/add/revisc the stipulations as per present conditions. The project proponent shall assess the requirement of fresh water (ground water/surface water) and furnish copy of permission from CGWA/Water Resources Deptt., Govt. of Odisha.	As per the DFO, Bondi Division, the implementation of Site-Specific Wildlife Conservation Plan approved on 12.05.2014 has started from 2022-23. Hence, revalidation of the Plan shall be done after implementation; the letter from DFO in this regard is attached as Annexure - I . M/s National Enterprise has applied to CGWA vide application number 21-4/5426/OR/MIN/2023, dated 20.11.2023 to extract ground water of 98 KLD. The application copy is attached as Annexure-II .	-
2.	Traffic study report vetted by institute of repute.	Traffic study was carried out at three sites i.e. RCC road towards Koidu, RCC road towards Rugudihi & NH-520. The study report was vetted by IIT, Bhubaneswar and given as Annexure- III .	-
3.	Details of parking plaza size, no. of vehicles, floor area along with layout of the parking area. The parking area	In order to transport iron ore of 10,000.4 T/day, heavy vehicles like 35T capacity truck/tippers plying on	-



<p>The road shall be concreted/blacktopped to control fugitive emission.</p>	<p>the road will be 286 (in case of 300 working days), if used ones daily. To accommodate at least 170 nos. of trucks at any moment of time an area of 125m X 80m i.e. 1 ha area shall be developed as parking plaza towards northern part of the ML area. This area will be made up of RCC having separate entry & exit gate and basic facilities like washroom, rest room having drinking water, etc. the map is given as Annexure – IV.</p>		
4.	<p>Details of Surface Runoff Treatment System and rainwater storage pond in the ML area based on sound calculations. The drainage network and the flow from different watershed within the mining area to the sedimentation pond(s) are required to be shown on a plan.</p>	<p>Details of Surface Runoff Treatment System and rainwater storage pond in the ML area is given in Chapter 4. At the end of the life of the mines there will be two nos. of settling ponds within the ML area. The detailed calculation is given as Annexure – V.</p>	
5.	<p>The project proponent shall install Filter press for the dry stacking of the tailings generated from the process.</p>	<p>Agreed, we will install Filter Press for the dry stacking of the tailings.</p>	
6.	<p>Garland drains shall be provided at the Dry stacking area of tailings.</p>	<p>Agreed, we will construct Garland drains around the Dry stacking area of tailings.</p>	
7.	<p>The dry stacking area shall be lined with Geotextile material and an entire management plan for the same shall be submitted.</p>	<p>Agreed, the management plan for dry stacking area is given as Annexure – VI. The tailing sludge will be dewatered using filter press, the end press mud will be stored in the tailing storage area, which will be lined with geotextile materials and surrounded by garland drain.</p>	
8.	<p>Details of moisture content in the pressed tailings and designed pressure of the filter press. Also, the proponent shall furnish details of tailing constituents and mineral analysis report of the tailing.</p>	<p>There is proposal for quality upgradation of sub-grade iron ore through wet beneficiation process using Jigging Plant. So, no tailings are there at present in the lease area for analysis. Hence, we undertake to submit the details of constituents of pressed tailings including moisture content along with the half yearly EC</p>	<p>Undertaking submitted for conducting detailed analysis of constituents of pressed tailings including</p>

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



		compliances reports; the undertaking is given as Annexure- VII . The designed pressure of the filter press which will be installed in the mines is 10 Bar (g), whereas the operating pressure will be 7.5 Bar (g).	moisture content.
9.	Detailed material balance showing mineralogical and metallurgical (such as Fe, Mn, Cr, P, S, V etc.) analysis of the feed, beneficiated concentrate product and reject tailings stream.	National Enterprises has sought EC for setting up a wet beneficiation plant through jigging process. So, no beneficiated concentrate product and reject tailings are there at present in the lease area for analysis. Hence, we undertake to submit the details of constituents of beneficiated concentrate product and reject tailings with the half yearly EC compliances reports; the undertaking is given as Annexure- VII . However, we have report of the complete elemental analysis of sub grade iron ore fines which will be act as feed is attached as Annexure- VIII .	Undertaking submitted to submit the analysis report for details of constituents of beneficiated concentrate product and reject tailings. However, report of the complete elemental analysis of sub grade iron ore fines has been submitted.
10.	Water balance report for the beneficiation plant involving each operational process.	Water balance report for each operational process in the beneficiation plant is attached as Annexure - IX .	-
11.	Detailed report on complete elemental analysis along with mineralogical, metallurgical and petrological analysis.	The complete elemental analysis of sub grade iron ore fines is carried out and the analysis report is attached as Annexure- VIII .	Report on complete elemental analysis of sub grade iron ore fines has been submitted.
12.	Compliance report for ToR condition (point no. xv) for photographs of the proposed site. Proponent shall also furnish the photographs along with geo-coordinates with date & time of sampling carried out for baseline study.	The baseline environmental data generation from the site and surroundings of Sarindpur iron and manganese mines was carried out during post-monsoon season from October 1st 2022 till December 31st 2022. Photographs of monitoring site are given as Annexure- X .	-

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



13.	<p>The project proponent shall revisit the EIA/EMP cost analysis and modify accordingly.</p>	<p>The costs regarding implementation of Environmental Management Plan were revised and the updated capital cost and recurring cost per annum works out to be Rs. 440 lakhs (Rupees Four hundred Forty lakhs only) & Rs. 105 lakhs (Rupees One hundred Five lakhs only) respectively; the details of the budget is attached as Annexure-XI.</p>	-
14.	<p>Submit layout of the whole lease area showing, garland drain, nearest nala, surface drainage, solid waste dump site, stacking plant and other units.</p>	<p>The lay out map of the whole lease area showing garland drain around dump, solid waste dump site, proposed beneficiation plant site, nearest nala, propose parking plaza, etc is attached Annexure – IV.</p>	-
15.	<p>Compliance report to NEERI recommendations.</p>	<p>Compliance of Recommendation of CSIRNEERI Report on "Carrying Capacity Study for Environmentally Sustainable Iron and Manganese Ore Mining Activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State" is given in Compliances to toR conditions section of the EIA /EMP Report. However, as per the instruction of the SEAC, we are submitting that as Annexure -XII.</p>	-
16.	<p>Clarify the quantity of materials to be transported separately by road and by rail.</p>	<p>The nearest railway siding to Sanindpur Iron & Manganese Mines are at Barbil or Baruan, Barbil, the nearest railhead, is situated at a distance of 30km in NE direction and Barsuan railway siding is at a distance of 35km in SW direction. Thus, the iron ore produced from the mines will be transported by 35T capacity trucks through Koida to Ruggedi RCC road and then either through NH-520 to Barbil or via Tensa town to Barsuan to the consumers.</p>	-

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



	Quantity/details of raw material to be processed at mines and to be sold directly.	The Sanindpur Iron & Manganese Mines has applied for a maximum iron ore production of 3 million TPA ROM; it includes 23,04,330 TPA of ore having +55% Fe and 6,95,800 TPA of ore having 45%-55% Fe. Ore having +55% Fe will be sold directly in open market and remaining will be subjected to dry or wet beneficiation process. The sub-grade ore shall consist of 2,43,530 TPA of ore having -10 MM size, which will be subjected to quality upgradation by wet beneficiation process using Jigging technology and quality of the remaining 4,52,270 TPA of ore having -10 MM size will be upgraded by dry beneficiation process involving existing /proposed Crusher and Screening Plants.
18.	Layout of Overburden dump site and its management.	At present in the Sanindpur Iron & Manganese Mines, there are three numbers of OB dumps i.e., OB Dump -I over an area of 0.283 ha, OB Dump -II over an area of 0.619 ha and OB Dump -III over an area of 4.518 ha. Dump -I & II are in non-active condition whereas OB Dump -III is in active condition. Solid waste to the tune of 8,96,280m ³ (maximum annual production) will be produced and shifted to the dump-III. Retreating method will be adopted for the disposal of waste at the dumping site. The dumps-III is having retaining wall of 250m long, made up of boulders. The wall is of maximum 1.5m height and the top surface is of 1m flat. Retaining walls are having weep holes to drain out water. The wall is followed by 0.6m deep, 1m wide and 200m long garland drain.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

		Conceptually the retaining wall will be 300m long & garland drain will be 250m long, other dimensions remaining the same (refer Annexure - IV).	
19.	EMP cost estimated to be very less. This has to be re-estimated and submitted.	The capital cost and recurring cost for implementing the Environmental Management Plan is re-estimated to be Rs. 440 lakhs (Rupees Four hundred Forty lakhs only) & Rs. 105 lakhs (Rupees One hundred Five lakhs only) respectively; the details of the budget is attached as Annexure-XI .	-
20.	Complete tailing management to be submitted.	One of the end products of beneficiation process is tailings whose management plan is given as Annexure - XIII .	-
21.	As from the KML file no green belt could be observed properly, the IP needs to submit a fresh KML file and a video of green belt for further evaluation.	Photo of recent KML file is attached as Annexure - XIV . The video is mailed separately.	-
22.	Scientific study for measures against blast vibration and fly rocks by domain experts	According to the DGMS circulars, the safe PPV for industrial buildings under the frequency range of 8 to 25 Hz is 20mm/sec. In the present study the measured PPV and frequency matches this configuration, in which office building and crusher will have no adverse impacts. Analysis of the blast vibration data of the Peak Particle Velocities (PPVs) for various blasts was recorded. It was found that for the different blast PPV varies and it is related to that of the charge per delay. In most of the blasting operation PPV is found to be within the limits. The Blast Vibration Study Report is given as Annexure-XV .	-

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



	Scientific study for slope stability of mine benches and dumps by domain experts.	The Slope Stability Report provides very useful information about the dump slope and mines bench of Sanindpur Iron & Manganese Mines. The study report is attached as Annexure – XVI . The mean factor of the dump slope of the area is about 1.15, which is critically stable. Safety factor varied from 0.85 to 1.45 for the depth of 10 m to 40 m for the slope angle 20 degree to 40 degree. It showed that with the increase in height of the bench or depth of the mine safety factor of the bench decreases indicating less stability of the concerned slope.	-
24.	Status of implementation of "Wildlife management plan" effective from 2014.	As per the DFO, Bonai Division, the implementation of management plan suggested in the Site-Specific Wildlife conservation Plan has started in 2022-23. A letter from the DFO in this regard is attached as Annexure – I .	-
25.	Achievement status of "Green belt development program of previous EC".	As per the certified compliance report of previous EC for Sanindpur Iron & Manganese Mines issued by IRO, Bhubaneswar of MoEF&CC on 23.08.2023, the specific condition no. 10 regarding plantation is fully complied. The copy of the observation status is attached as Annexure – XVII .	-

24. Any deficiencies/omission have been noticed in the above documents-Nil
2. Whether SEAC recommended the proposal – The proposal was placed in SEAC meeting held on 02.12.2023 and the SEAC recommended for grant of Environmental Clearance with stipulated conditions as per **Annexure – B** and following specific conditions:
- i) The project proponent shall maintain adequate greenbelt in the lease area.
 - ii) OB dump sites shall be managed properly as proposed.
 - iii) The additional fines generated due to proposed enhancement shall be managed properly.
 - iv) Tailings generated from the Beneficiation process shall be managed as proposed.
 - v) Proper Air Pollution Control measures shall be provided to control dust emission and local dust generation.
 - vi) Both dust suppression and extraction system shall be provided in the crushing and screening units to control fugitive emission.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- viii) The project proponent shall obtain permission from the concerned authority for usage of surface water.
- ix) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMRRA Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- ix) Traffic management shall be done as per recommendation of Traffic Management Study Report duly vetted by institute of repute.
- x) As a part of six-monthly compliance, the PI* shall submit the status of Tailing Pond and its annual make-up to ascertain its capacity to take care of expansion in production including mineralogical & chemical analysis of excavated ore, dump materials and rejects. Also, actual layout after expansion may be submitted as a part of six-monthly compliance to the SEIAA, Odisha and Regional Office, MoEF&CC, Govt. of India, Bhubaneswar.
- xi) Adequate measures shall be adopted for management of noise, vibration and fly rocks.
- xii) Bench and dump slopes are to be designed and maintained so that their failure is avoided.
- iii) Permission from Water Resources dept. to be taken for usage of ground water.
3. The proposal was placed in the 152nd SEIAA meeting held on 25.01.2024. After detailed deliberation, the Authority decided that the PP is required to submit an ore transport plan in compliance to Suggested Ore Transport mode two (SOTM-2) i.e. Minimum 70% by public railway siding through conveyor belt maximum 30% by road- direct to destination or other public railway siding or above option along with an undertaking to carry out the same on their own cost.
4. Now, the PP has submitted undertaking regarding SOTM.

Decision of Authority: Approved

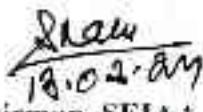
After detailed deliberation in the matter, the authority decided to grant EC to the project with the following specific condition:

- 1) The PP shall comply with the Ore Transport Plan in compliance to Suggested Ore Transport mode two (SOTM-2) i.e. Minimum 70% by public railway siding through conveyor belt maximum 30% by road- direct to destination or other public railway siding or above on their own cost within 5 years from start of operation.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA
18.02.2024



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.08	
Proposal No.	SIA/OR/MIN/436137/2023
Date of application	10.07.2023
File no,	436137/955-MINB2/07-2023
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for EC of Narayanpur Morrum Quarry over an area of 7.58 acres or 3.06 hectares having Khata No. 424, Plot No. 812 in the Village Narayanpur, Konisi Tahasil in District Ganjam, State Odisha
Name of the company/Organization	Sri M. Shiva Patra
Location of Project	Village Narayanpur, Konisi Tahasil in District Ganjam, State Odisha
ToR Date	N/A
Name of the Consultant	N/A

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 SFAC/SEIAA, are given as under.

This is a proposal for mining of Morrum from Narayanpur Morrum Quarry over an area of 7.58 acres or 3.06 hectares having Khata No. 424, Plot No. 812 in the Village Narayanpur, Konisi Tahasil in District Ganjam, State Odisha.

The mining area is a part of Survey of India Toposheet No. E45A15 and is bounded between the Latitude 19°16'03.79"N to 19°16'15.34"N and Longitude -84°53'06.18"E to 84°53'13.96"E.

The mining lease is an identified sairat source in the DSR. The Narayanpur Morrum Quarry sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Konisi to the successful bidder (lessee) on a basis of public auction for a lease period of 3 years.

Documents submitted: Form-1, PER, checklist, Mining Plan and approval letter, DLC, DSR, Village sheet Cluster certificate from Tahasildar, topo map etc.

Whether submitted KMI file of the lease area-Yes

Whether submitted scrutiny fee- Yes, of Rs. 1000/- vide e Challan Reference Id. 55B768C769 dt. 10.07.2022

Distance from nearest sanctuary/ESZ- Lakhari Valley WI-S-51.0 Km:

- i) Whether the lease area coming in DLC report- No as certified by Tahasildar, Konisi
- ii) Whether the lease area reflecting in DSR-Yes
- iii) Method of mining-Semi-mechanized
- iv) Depth of morrum deposit-3.0 meter
- v) Distance from nearest road bridge-2.0 km, village road -0.60 km
- vi) Whether it is part of cluster- No
- vii) Whether EC obtained earlier-Yes from DEIAA, Ganjam and submitted EC compliance
- viii) Date of approval of mining plan- the Joint Director Geology South Zone, Berhampur on 06.12.2022
- ix) Production capacity per annum-25060 cum/annum (max.), total production in 5 years period-125300 cum Geological reserve-475218 cum and Mineable reserve-410443 cum
- x) 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 Guidelines for sand mining-2020- No
- xii) The EMP budget provision of Rs. 1.301.lakh/annum
- xiii) Any deficiencies/omission have been noticed in the above documents- Nil

2. **Whether SEAC recommended the proposal** – The proposal was placed in SEAC meeting held on 13th, 15th & 18th November 2023 and the SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions.
- a) Easement / 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.
 - b) In view of likely revision of DSR the mention of this deposit with coordinates is to be ensured.
 - c) Plantation programme to be completed within first two years and to be maintained in remaining years.
 - d) Depth of Mining as proposed should not be beyond 6m from the ground level.
 - e) Morrum-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 morrum quarry for ensuring the working personnel are not affected by silicosis.
 - f) 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.
 - g) Construction of g�and drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity.
 - h) Air quality monitoring shall be carried out thrice in a year, (season-wise).
- i) **As per the KML file, there has been deep excavation of morrum from the leased area of the quarry and already water storage around mining plan area. Proper barricade around the mine area should be ensured by the PP for human & animal protection.**
3. The proposal was placed in the 149th SEIAA meeting held on 28.12.2023 & 29.12.2023. After detailed deliberation the authority observed that as per the KML file, there has been deep excavation of morrum from the leased area of the quarry and already water storage around mining plan area. After detailed deliberations the Authority decided to seek clarification/information on the following:-
- a) The PP is required to submit an action plan, cost estimate and undertaking to erect proper barricade around the mine area for human and animal protection.
 - b) The EMP cost shall be enhanced to at least Rs.5,00,000/- per annum.
4. Now, the PP has submitted their reply on 03.02.2024 through Parivesh Portal.

Decision of Authority: Approved

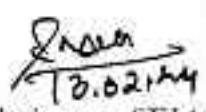
After detailed deliberations, the Authority decided to grant Environmental Clearance with usual stipulated conditions as applicable for morrum quarry,

- Maximum depth of mining 3.0 meter, Maximum quantity of extraction shall be limited to 25060 cum annum.
- The EC is valid till the 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 Vs. Pawan Kumar and Others).
- The Project Proponent (lease holder) shall deposit Rs.1,50,000/-, with the respective District Environment Society for raising 300 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 cost of Rs. 5.0/- Lakhs per annum as recurring cost.
- The PP shall erect proper barricade around the mine lease area for human and animal protection. The SPCI shall ensure the compliance of this condition before grant of CTO.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


T.B.2024
Chairman, SEIAA



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.09	
Proposal No.	SIA/OR/MIN/404520/2022
Date of application	17.01.2023
File No.	404520/784-MINB1/01-2023
Project Type	EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for EC for Baitarani Sand Bed Mine on Baitarani River over an area of 5.058 Ha/12.50 Acre in village Tampo, under Ghasipura Tahasil of Keonjhar District, Odisha.
Name of the company/Organization	Sri Hrushikesh Jena
Location of Project	village Tampo, under Ghasipura Tahasil of Keonjhar District, Odisha
ToR issue Date	28.02.2021
Name of Consultant	M/s. Kalyani Laboratories 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 SEAC/SEIAA, are given as under.

- This proposal is for environmental clearance of Baitarani sand bed mine on Baitarani River over an area of 5.058 ha./12.50 Acre in village Tampo, under Ghasipura Tahasil of Keonjhar District of Sri Hrushikesh Jena.
- Category:** As per EIA notification 2016 and subsequent amendment this proposal is coming under Category B of Schedule 1(a) Mining of Minerals.
- The quarry lease has been granted by the Tahasildar, Ghasipura vide letter no.676 on dated 17.03.2020 to the applicant (successful bidder) for excavation of minor mineral (River Sand) for five years.
- The Tahasildar of Ghasipura Tahasil vide letter no. 5740 issued on dated 28.12.2020 while submitting relevant documents of EC application to SEIAA, Odisha further communicated that Sri Hrushikesh Jena of Jena Minerals Pvt. Ltd., Saroi, Haridaspur of Jajpur Dist. is the successful bidder of the said sairat source.
- The mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no. 676 on dated 17.03.2020.
- Terms of Reference (TOR) details:** Terms of Reference (TOR) was issued by Ministry of Environment, Forest and Climate change vide file no: 59407/55-MINB1/12-2020 on dated 28.02.2021.
- Public hearing Details:** The Public Hearing in respect of Environment Impact Assessment for Baitarani Sand Bed Mine of M/s Jena Minerals Pvt. Ltd, on river Baitarani over an area of 5.058 ha. in village Tampo under the Ghasipura Tahasil of Keonjhar District, Odisha was conducted on 12.05.2022 at 11.00 A.M at Village Tampo (Near Tampo Baitarani Bridge) (Khata No.218 (Rakhita), Plot No.556, Kissam Gochara, Area-Ac.32.15) in Keonjhar District. Issues raised are local employment, dust pollution, water sprinkling arrangements, tarpaulin cover on sand loaded vehicles, plantations, increase of traffic management & road transportation. Total expenses to be incurred for public hearing action plan is 6.60 lakhs.
- Location and connectivity:** The proposed river bed sand mining will be carried out on Baitarani River located at village Tampo, under Tahasil: Ghasipura, Dist:Keonjhar, Odisha & the lease area is 5.058 ha. or 12.50 acre bearing Khata No.-221, Plot No.705, 706, Kisam, Nadi. The project is located

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



In survey of India topsheet no. E4504 & L4508 between latitude of 21° 07'52.44"N to 21° 08'44.77"N and longitudes of 86° 10'56.85"E to 86° 11'21.81"E. The site is well connected to NH-25A SH-53 at a distance of 6.9 Km & 7 Km. Nearest airport is Bhubaneswar airport at a distance of 105 Km from the mining lease area. Nearest Railway station is Korai Railway Station at a distance of 16 Km from the project site. The nearest road is Baito road located at a distance of 0.6 Km.

9. **Topography:** The Baitarani sand bed deposit represents a gently sloping to almost flat terrain with the highest elevation is 29.5mRL & lowest elevation is 27 mRL in sand. The lease area belongs to recent quaternary riverbed deposits consisting of sand, silt, clay, gravel and alluvial deposits. The sand in the lease area is a weathering product of the nearby metamorphic rocks and has been transported by 1st and 2nd order nala which ultimately gets deposited in the main nala/river bed during the rainy season.
10. **Drainage:** The drainage of the district is mainly controlled by rivers like Baitarani, Kangira, Ardoi, Kharibandhan, Kunjhari, Sita, Kusei, Salandi etc. During rainy season, the river water carries sand which is formed due to disintegration of rock bodies along with other suspensions.
11. **Reserves:** Total geological reserves and mineable reserves is 50588 Cum and 29844 Cum respectively.
12. **Mining method and production details:** In the applied bed lease area, the sand will be extracted by manual mining method. Handpicks, Spade, hand shovel will be used by manual labourers for extracting & loading of sand. The sand will be loaded into tippers/trailers having capacity 4Cu.m/2.5 Cu.m for loading & dispatched as per requirement. The extraction of sand will be carried out up to the limit of maximum 1.5m depth or the water table whichever less is. The total excavated material is sellable as no waste will be generated from the mining process. There is no provision of dumping within the quarry. Only 20 trucks and tippers will be utilized for transportation of sand. At the proposed rate of annual production, total excavated sand would be maximum of 25545Cu.m during the proposed plan period. The project intend to excavate maximum sand of 5223 Cu.m per year and total 25545 Cu.m within 5 year plan period from the lease area. During plan period the mined-out land will be 2.578 ha. The safety zone to be maintained at 7.5 metre width all along the quarry which will be 0.401 ha. and water body, which will cover 2.079 ha.

Financial Year	Mineral s	Surface Area in (Sq. m)	Thickness of sand (m)	Volume of sand in (Cu. m)
1 st Year	Sand	3422	1.5	5133
2 nd Year		3430	1.5	5145
3 rd Year		3344	1.5	5016
4 th Year		3352	1.5	5028
5 th Year		3482	1.5	5223
Total				25545

13. **Water requirement:** For drinking & domestic purpose, water requirement will be 2 KLD while water requirement for green belt development and dust suppression will be 1 KLD. So total water requirement for this proposed project is 3KLD.
14. **Fuel requirement:** Tipper & Dumper will be used for transportation. The approximate quantity of the fuel/Diesel used per day is 100Ltr/day.
15. **Baseline study:**

PERIOD	October to December 2020	Applicable Standards
	PM _{2.5} – 16.7 to 27.2 µg/cu.m	60 µg/cu.m

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



AQ PARAMETERS AT 7 LOCATIONS		PM ₁₀ - 17.1 to 41.7 µg/cu.m	100 µg/cu.m
		SO ₂ - 5.2 to 9.9 µg/cu.m	80 µg/cu.m
		NOx - 10.3 to 27.1 µg/cu.m	80 µg/cu.m
Ground Quality Location	water at 6	pH - 6.9 to 7.3	6.5 to 8.5
		Total Hardness - 52 - 192 mg/l	600 mg/l
		Chloride - 9.6 to 124.6 mg/l	250 mg/l
		Fluorides - 0.15 to 0.81 mg/l	1.5 mg/l
		TDS - 110 - 470 mg/l	1000 mg/l
		Heavy metals (Cd < 0.001, As < 0.001, Hg < 0.0005) mg/l	Heavy metals (Cd < 0.003, As < 0.01, Hg < 0.001) mg/l
Surface water at 4 locations		pH - 7.1 to 7.8	
		Dissolved Oxygen - 5.5 to 6.0 mg/l	
		Biochemical Oxygen Demand - 2 to 5 mg/l	
		Chemical Oxygen demand - 12 to 25 mg/l	
Noise at 8 locations		Day (dB A Leq) - 32.4 to 45.6	55
		Night (dB A Leq) - 25.6 to 35.6	45
Soil Quality at 3 locations		pH - 5.20 to 7.4, Potassium - 202.9 to 1828 Kg/Ha, Phosphorous - 166 to 603 Kg/Ha, Nitrogen - 188 - 276 Kg/Ha, Electrical Conductivity - 117 to 1050 ms/Cm	

16. **Greenbelt:** There is proposal for plantation along the riverbank to protect the riverbank erosion in consultation with the forest department. Approximately 250 saplings is proposed to be planted during the 1st year of mining operation.
17. **Employment generation:** Due to the proposed sand mining, there will be generation of employment for 14 persons out of which, 04 skilled, 04 Semiskilled, 6 nos are unskilled.
18. **Project Cost:** Total cost of the proposed project is 10 lakhs. The EIMP cost proposed for the project will be 4.0 Lakh per annum.
19. **Environment Consultant:** The Environment consultant M/s Kalyani Laboratories Pvt. Ltd. Bhubaneswar, along with the proponent made a presentation on the proposal before the Committee on 14.02.2023.
20. The SEAC in its meeting held on dated 14-02-2023 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:



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	NOC/permission from concerned authority for usage and maintenance of Panchayat Road.	NOC for using Panchayat Road duly endorsed by BDO of Ghasipura Block attached as Annexure – I .	Request letter to BDO, Ghasipura Block by PP has been submitted.
b)	Precautionary measures to be taken for movement of vehicles in school area for safety of students.	Sand will be transported in early morning time to avoid traffic. The maximum speed of the sand transportation vehicle's is 10km/hr in school area. A mine worker is present with the driver of vehicle at the time of sand transportation.	-
c)	Distance from bridge and other sand mines.	As per certified cluster certificate issued by The Tahasildar of Ghasipura Tahasil of Keonjhar District there is no other mines located within the 500meter of the project area. (Annexure – II) As per certified distance certificate by Tahasildar the distance of the river bridge is 550 meter from the lease area. (Annexure – III)	-
d)	Conduct replenishment study in pre monsoon and post monsoon and submit the report	Necessary replenishment study report is attached as Annexure – IV .	Replenishment study Report submitted. Pre monsoon data collected on 04.09.2022 and post monsoon on 29.04.2023. Replenishment of sand – 19706.4cum.
21.	The SEAC in its meeting held on 11-07-2023 opined that pre-monsoon study during September is not acceptable and recommended that the proposal to be considered for grant of EC after the proponent submit fresh replenishment study as per guidelines.		
22.	The Project Proprietor has submitted a Pre-Monsoon Replenishment Study Report conducted on dated 12-05-2023 as mentioned in report.		
	The Committee observed and recommended the following:		



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- i) The lessee indicated in the compliance furnished that they have conducted Pre-Monsoon Study on dated 04-09-2023. Post monsoon study of 29-04-2023 cannot be considered for undertaking mining. Hence, replenishment study report is rejected.
- ii) The Project Proponent has submitted a Pre-Monsoon Replenishment Study Report conducted on dated 12-05-2023 as mentioned in report.
- iii) The replenishment study report is prepared by My World Consultancy Private Ltd., Cuttack and the company is empanelled by ORSAC to carry out drone survey vide office order dated 16.10.2023. Pre-monsoon survey by drone / UAV using photogrammetry method has been carried out on 12th May 2023. Approximately 60% of the ML area was reported to be submerged in water at the time of survey.

Parameters	Baitarani sand quarries	Remarks
Mining lease (ML) area (Ha)	5.058	Surveyed area is significantly higher than ML area.
Surveyed area (Ha)	21.6735	
Pre monsoon standard elevation RL (m)	The reported readings are in the range 20.94 to 27.17	All RL reports are by digital elevation model (DEM) that is generated by using software.
Post monsoon average standard elevation RL (m)	Post monsoon period survey not carried out. Survey done only for pre-monsoon period.	
Replenished level (m)	Not reported	
Number of points in ML area reported for RL measurement	59	
Minimum measurement error	(- 15 m - 15 m)	
Maximum measurement error	(- 15 m + 15 m)	Error of measurements is high.

In view of unsatisfactory revised replenishment report, this proposal is not accepted and it is recommended to return the proposal to SEIAA to take further action.

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 11.09.2023 and the SEAC rejected the proposal as the replenishment study is not done as per MoEF & CC Guideline and unsatisfactory.
3. The proposal was placed in 143rd SEIAA meeting held on 23.11.2023 & 24.11.2023. The Authority perused in the matter and accepted the SEAC recommendation to reject the proposal as the replenishment study is not done as per MoEF & CC Guideline and unsatisfactory. The project proponent is required to submit fresh ARRS report through ORSAC empaneled agency for further consideration of the proposal.
4. Now, the PP has submitted revised ARRS report on 01.02.2024 through Parivesh Portal without any covering letter.

Decision of Authority: Referred Back

After detailed deliberation on the matter, the authority decided to referred back the case to SEAC for reconsideration.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA
13.02.24



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.10

Proposal No.	SIA/OR/MIN/ 304594/2023
Date of application	25.09.2023
Project Type	Transfer of EC
Category	B2
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for Transfer of EC of Poibadi Stone Quarry-III over an area 2.50 acres or 1.01 hectares in Poibadi village, Daspalla Tahasil, Nayagarh District, Odisha
Name of the company/Organization	Sri Anjan Kumar Pradhan
Location of Project	Poibadi village, Daspalla Tahasil, Nayagarh District, Odisha

Proposal in brief:

1. 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.
- (ii) This is a proposal Transfer of EC of Poibadi Stone Quarry-III over an area 2.50 acres or 1.01 hectares in Poibadi village, Daspalla Tahasil, Nayagarh District, Odisha.
- (iii) Documents submitted- Application in Form-7, earlier EC copy, Tahasildar forwarding letter, Status of quarry and scrutiny of Rs. 1000/- vide e-Challan Ref. No. 35BE0C86AD dated 21.08.2023.
- (iv) The EC of Poibadi Stone Quarry-III over an area 2.50 acres or 1.01 hectares in Poibadi village, Daspalla Tahasil, Nayagarh District, Odisha was in favour of Tahasildar, Daspalla vide SEIAA letter no./Identification No. 9941/SEIAA dated 07.12.2020.
- (v) Present status of quarry- non-operated as mentioned by Tahasildar but in the KML file it appears that quarry operated since 2017 to 2023.
- (vi) Whether submitted KML file- Yes
- (vii) The project proponent applied proposal for transfer of EC from the name Tahasildar, Daspalla to Sri Anjan Kumar Pradhan, (highest bidder/lessee) with attaching Tahasildar forwarding letter vide letter no. 1951 dated 11.07.2023.
- (viii) Any deficiencies/omission have been noticed in the above documents- In the KML file it appears that quarry in operating conditions after obtaining EC.
2. Whether SEAC recommended the proposal - N/A
3. The proposal was placed in 139th SEIAA meeting held on 16.10.2023, 17.10.2023 & 19.10.2023. The Authority observed that the Tahasildar, Daspalla has mentioned in his letter vide letter no. 1951 dt. 11.07.2023 that the quarry is non-operated but the google earth image of KML file shows mining activities between 2020 to 2023.

After detailed deliberation the Authority decided that the Sub-Collector, Nayagarh is required to submit a site inspection report of Poibadi Stone Quarry-III indicating whether mining operation has been carried out in the said lease area between 2020-2023. If, yes, the Project Proponent is required to submit the total project cost and turnover from Chartered Accountant as per MoEF & CC SOP dated 07.07.2021.

4. Now, the Sub-Collector, Nayagarh vide letter no. 188 dt. 30.01.2024 has clarified that the quarry operated earlier for the period 2015-16 to 2019-20 and at present, it is difficult to ascertain whether mining operation has been carried out in the said source for the period 2020-2023.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Decision of Authority: Approved

The authority perused the report submitted by Sub-collector, Nayagarh vide his letter no. 188 dated 30.01.2024 stating that at present, it is difficult to ascertain whether mining operation has been carried out in the said source for the period 2020-2023.

After detailed deliberation on the matter, the authority allowed transfer of EC with the following specific conditions.

- a. **Boundary Demarcation:** - The boundary of the lease area shall be demarcated on ground at the project cost, by erecting 1.20 meter (4 feet approx.) high reinforced concrete pillars above ground, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates by any empanelled agency of ORSAC.
- b. **Digital Map:** - A digital map (in KML format as well as PDF version) showing GPS coordinates of all boundary pillars duly countersigned by the Tahasildar shall be submitted to SEIAA, Odisha through email at info.seiaaodish@gmail.com.
- c. **Intimation of EC:** - The copies of the EC shall be sent to the Sarpanch (s) of the concerned Gram Panchayat (s), Urban Local Bodies and relevant other Offices of the Government with a request to display the same for 30 days from the date of receipt.
- d. **Tree Plantation:** - Compensatory Tree Planting (CTP) shall be carried out with minimum @100 trees per Ha. of lease area as per the approved cost norm for avenue plantations of the State Forest Department. The Project Proponent (lease holder) shall deposit Rs.50,000/- with the respective District Environment Society for raising 100 plants of native species within 2 years in a suitable location adjoining to quarry.
- e. **State EMF Fund:** - An amount equal to five percent (5%) of the royalty payable shall be collected from the lessee by the Tahasildar and deposited to the State Environment Management Fund, which will be utilized as per provisions of Rule 49(3) of the OMMC Rule, 2016 preferably, in and around the areas where mining activities are undertaken.

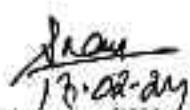
APPROVED BY



Member Secretary, SEIAA



Member, SEIAA



Chairman, SEIAA
13-02-24

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



PARIVESH 1.0, AGENDA No.155.11

Proposal No:	SIA/OR/MIN/303570/2023
Date of application:	11.01.2024
Project Type:	Transfer of EC
Category:	B2
Project/Activity including Schedule No:	(i)a) Mining of minerals
Name of the Project:	Proposal for Transfer of EC of Mahupali Stone Quarry over an area of 12.33 Ac or 4.989 Ha at village Mahupali of Bamra Tahsil of Sambalpur District
Name of the company/Organization:	Sri Raj Kumar Agasty
Location of Project:	Mahipali of Bamra Tahsil of Sambalpur District

Proposal in brief:

- (i) 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.
- (ii) This is a proposal Transfer of EC of Mahupali Stone Quarry over an area of 12.33 Ac or 4.989 Ha at village Mahupali of Bamra Tahsil of Sambalpur District.
- (iii) Documents submitted: Application in Form-7, earlier EC copy, Tahasildar forwarding letter, Status of quarry and scrutiny of Rs. 1000/- vide e-Challan Ref. No. 37E7C19F72 dated 11.01.2024
- (iv) The EC of Mahupali Stone Quarry over an area of 12.33 Ac or 4.989 Ha at village Mahupali of Bamra Tahsil of Sambalpur District was in favour of Tahasildar, Bamra vide SEIAA letter no./Identification No. 2397/SEIAA dated 31.08.2021.
- (v) Present status of quarry- -working
- (vi) Whether submitted KML file-Yes
- (vii) The project proponent applied proposal for transfer of EC from the name Tahasildar, Bamra to Sri Raj Kumar Agasty, (highest bidder/lessee) with attaching Tahasildar forwarding letter vide letter no. 2840 dated 03.11.2023,
- (viii) This is violation case as the quarry operated for the period 2022-2024 without transfer of EC and the PP submitted Suo-Moto declaration along with submitted total project cost of Rs. 1,91,481/- and total turnover of Rs. 1,60,963/- through CA M/s. BDMS & Associates having UDIN No. 24313047BKEIJ8037.
- (ix) Any deficiencies/omission have been noticed in the above documents- Nil

Whether SEAC recommended the proposal N/A

Decision of Authority: Returned

The Authority noted that the PP has submitted the application as per MoEF & CC, Govt. of India office Memorandum (O.M.) dt. 07.07.2021 and subsequent clarification dtd. 28.01.2022 regarding the SOP for identification and handling of violation cases under EIA Notification 2006.

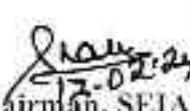
In the meantime, Hon'ble Supreme Court in W.P.(C) No. 1394/2023 titled Vanashakti Vs Union of India, has stayed the operation of both the Office Memorandum dated 7th July 2021 and 28th January 2022 issued by MoEF & CC, which has been communicated vide MoEF & CC OM No. F. No. 1A3-3/4/2024-IA III [E 230791] dt. 08.01.2024.

In view of this and after detailed deliberation, the Authority opined that grant of EC including transfer of EC in cases involving violation is not permissible until further orders of Hon'ble Supreme Court. Hence, the application is returned.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA
17-02-24

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



PARIVESH 1.0, AGENDA No.155:12

Proposal No.	SIA/OR/MIN/307073/2023
Date of application	16.01.2024
Project Type	Transfer of EC
Category	B2
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for Transfer of EC of Torli Sand Quarry over an area 12.20 acre or 4.937 hectre in Torli village under Khariar tahasil of Nuapada district Odisha
Name of the company/Organization	Sri Pawan Agrawal
Location of Project	Mahulpali of Bamra Tahsil of Sambalpur District

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.

This is a proposal Transfer of EC of Torli Sand Quarry over an area 12.20 acre or 4.937 hectre in Torli village under Khariar tahasil of Nuapada district Odisha.

Documents submitted: Application in Form-7, earlier EC copy, Tahasildar forwarding letter, Status of quarry and scrutiny of Rs. 2000/- vide e-Challan Ref. No. 35LD51996A3 dated 08.12.2023

i) The EC of Torli Sand Quarry over an area 12.20 acre or 4.937 hectre in Torli village under Khariar tahasil of Nuapada district Odisha was in favour of Tahasildar, Khariar vide SEIAA letter no./Identification No. 2510/SEIAA dated 04.09.2021.

Present status of quarry - working

Whether submitted KML file-Yes

The project proponent applied proposal for transfer of EC from the name Tahasildar, Khariar to Sri Pawan Agrawal, (highest bidder/lessee) with attaching Mining Officer forwarding letter vide letter no. 138 dated 07.12.2023.

j) This is violation case as the quarry operated for the period 2022-2024 without transfer of EC and the PP submitted Suo-Moto declaration along with submitted total project cost of Rs. 7,15,945/- and total turnover of Rs. 2,07,742.75/- through CA M/s. BDMS & Associates having UDIN No. 24213047BKEIII-1914.

k) Any deficiencies/omission have been noticed in the above documents- There is doubt about certificate of CA submitted by PP.

Whether SEAC recommended the proposal - N/A

Decision of Authority: Returned

The Authority noted that the PP has submitted the application as per MoEF & CC, Govt. of India office Memorandum (O.M.) dt. 07.07.2021 and subsequent clarification dt.d. 28.01.2022 regarding the SOP for identification and handling of violation cases under EIA Notification 2006.

In the meantime, 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



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

2022 issued by MoEF & CC, which has been communicated vide MoEF & CC OM No. F. No.-IA3-54/2024/LA/III [F 230791] dt. 08.01.2024.

In view of this and after detailed deliberation, the Authority opined that grant of EC including transfer of EC in cases involving violation is not permissible until further orders of Hon'ble Supreme Court. Hence, the application is returned.

APPROVED BY



Member Secretary, SEIAA



Member, SEIAA



Chairman, SEIAA



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.13	
Proposal No.	SIA/OR/TND/300718/2023
Date of application	06.01.2023
File no.	405090/TND1-B1/02-2023
Project Type	Proposal for Modification of ToR
Category	B
Project/Activity including Schedule No.	2(b) Mineral Beneficiation
Name of the Project	Proposal for Modification of ToR of proposed 4.0 MTPA Capacity Iron Ore Beneficiation Plant over an area 138.525 Acres at Village Dengula & Nuagaon, Tehsil Koida, District Sundargarh of Sri Smruti Ranjan Dash
Name of the company/Organization	M/s. GV Mines Minerals And Metals Private Limited
Location of Project	Village Dengula & Nuagaon, Tehsil, Keida, District Sundargarh
ToR Date	13.02.2023
Name of the Consultant	M/s Pollution and Ecology Control Services

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 amendment Terms of Reference for obtaining Environmental clearance for M/s. GV Mines Minerals and Metals Private Limited for proposed 4.0 MTPA Capacity Iron Ore Beneficiation Plant over an area 138.525 Acres at Village Dengula & Nuagaon, Tehsil Koida, District Sundargarh of Sri Smruti Ranjan Dash.
2. **Category:** As per EIA Notification,2006 and its subsequent amendments, the project proposed comes under Category -B of Schedule- 2(b), Mineral Beneficiation.
3. **TOR details:** Earlier Terms of Reference was issued by SEIAA vide online Proposal no. SIA/OR/TND1/405090/2022 dated 13.02.2023.
4. This proposal is for Modification of TOR for reduced land area.
5. **Previous Land details for which TOR was issued as follows:**

Total Land: 138.525 Acres (Revised)	Forest Land: 3.73 Acres
Non-Forest Govt. Land: 87.77 Acres (Revised)	
Private Land: 47.025 Acres.	

Table: The land details as per the previous ToR

Sr. No.	Name of village	Land classification (in acre)			Total Land(inacre)
		Govt Non forest	Govt Forest	Private	
1.	Dengula	71.440	2.720	40.020	115.150
2.	Nuagaon	32.285	0.000	7.005	39.290
Total Land		103.725	3.720	47.025	154.480



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Table: The Revised land details as per lease deed executed by sub-registrar

Sr. No.	Name of village	Land classification (in acre)			Total Land (in acre)
		Govt forest	Non Govt Forest	Private	
1.	Dengula	54.810	3.730	40.020	98.560
2.	Nusgaon	32.960	0.000	7.005	39.965
Total Land		87.770	3.730	47.025	138.525

Revised Land Use plan vis-à-vis old land use details

AREASUMMARY OF Koiraiobp-Revised			
Sl. No.	PROPOSED FACILITIES	AREA (ACRE) old	AREA (ACRE) New
i)	RMHS	20	7
ii)	Truck parking area	3	2.5
iii)	Grinding and beneficiation unit	4	3.5
iv)	Concentrate thickener & pump house	2.5	1.5
v)	Slurry tank	1.5	0.5
vi)	Slurry pump house	1.5	1
vii)	RWTP	2	0.5
viii)	Water reservoir	3	2
ix)	Tailing thickener & pump house	2	1
x)	Tailing filtration unit	1.5	0.8
xi)	Tailing filter cake dump	25	50
xii)	Concentrate filtration plant	1.5	0.8
xiii)	Concentrate filter cake dump	12	5
xiv)	MRSS & switchyard	2	2
xv)	Building & shed	9	8
xvi)	Road drain & building	12.98	6.7
xvii)	Plant area	103.48	92.8
xviii)	Green belt	51	45.725
xix)	Total area	154.48	138.525

6. Environment Consultant: The Environment consultant M/s Pollution and Ecology Control Services, along with the proponent made a presentation on the proposal before the Committee on 31.07.2023.

7. The SEAC in its meeting held on dated 31-07-2023 decided to take the decision on the proposal after receipt of the following from the proponent:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	DGIPS of the boundary along with Cadastral map.	In this regard we would like to state that DGPA Survey for the said boundary was conducted by the ORSAC (Certified consultant) and the same	Copy submitted.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



		has been submitted herewith for favor of your kind reference and perusal in Annexure-I .	
	Engineering details behind optimization of lease area (by reducing the area allocated to different parts like Slurry Tank, Slurry Pump House, Tailing filtration unit, Tailing filter cake dump etc. without reducing capacity of the plant) under each proposed facility category along with the justification (as it was stated that by engineering interventions area has been reduced for various facilities/category keeping the plant capacity at the same level).	We would like to state that for optimization of the lease area for the Iron Ore Beneficiation Plant (IOBP) while maintaining the same plant capacity, various engineering interventions have been implemented to reduce the allocated area for different facilities as submitted below:	
AREA SUMMARY OF KOIRA IOBP-REVISED			
SL No.	PROPOSED FACILITIES	AREA Old (Acre)	AREA New (Acre)
1.	RMHS	20.00	15.84
2.	Truck parking area	3.00	3.00
3.	Grinding and Beneficiation unit	4.00	4.00
4.	Concentrate thickner & Pump house	2.50	2.50
5.	Slurry tank	1.50	1.50
6.	Slurry pump house	1.50	1.00
7.	RWTP	2.00	2.00
8.	Water reservoir	3.00	2.00
9.	Tailing thickner & pump House	2.00	1.50
10.	Tailing filtration unit	1.50	1.50
11.	Tailing filter cake dump	25.00	25.00
12.	Concentrate filtration Plant	1.50	1.00
13.	Concentrate filter cake	12.00	9.00



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

	Dump		
14.	Mrss& switchyard	2.00	2.00
15	Building & shed	9.00	8.00
16.	Road drain &building	12.98	12.97
17.	Plant area	103.48	92.81
18.	Green belt	51.00	45.71
	TOTAL AREA	154.48	138.525
	0		

The engineering details behind the optimization of each proposed facility category and justifications for the changes are appended below for favour of your kind perusal.

The reduction in the area of Raw Material Handling System (RMHS) from 20 acres to 15.84 acres is justified by a series of engineering interventions and optimizations. These include the adoption of advanced material handling equipment, optimized layout design, improved bulk material storage efficiency, integrated control systems, enhanced material tracking and inventory management, and adherence to environmental considerations and sustainability goals. These measures enable more efficient material handling, reduce the need for excessive storage space, enhance operational efficiency, and maintain the same plant capacity, contributing to resource conservation and cost savings while ensuring compliance with environmental standards.

The reduction in the area of the Slurry Pump House is achieved by implementing more compact and efficient pump designs, enabling the same pumping capacity within a smaller footprint. Advanced pump technology and improved layout planning have allowed for this reduction without compromising performance. The reduction in the Water Reservoir area is achieved through better design and optimization



		<p>of the reservoir's shape and depth. Enhanced water management systems, including improved water circulation and storage techniques, have been implemented to maintain the required water supply while reducing the footprint.</p> <p>This reduction is attained by utilizing advanced thickening technology, which allows for a higher concentration of solids in the tailings within the same area. Additionally, more efficient pump designs and optimized layout planning have contributed to the reduced area. Improved filtration technologies, including higher capacity filters and improved automation, enable a smaller footprint for the Concentrate Filtration Plant. Enhanced process control and filtration efficiency contribute to this reduction.</p> <p>Overall, the reduction in area across these facilities is made possible by leveraging advancements in engineering and technology, such as more compact equipment, improved layout planning, higher efficiency processes, and better control systems. These optimizations not only save space but also contribute to improved resource utilization and sustainability while maintaining the same plant capacity. Additionally, careful consideration has been given to environmental and regulatory requirements, ensuring that the reduction in area does not compromise the plant's operational performance or compliance with safety and environmental standards.</p>
3.	Details of Forest Clearance application and current status.	<p>In this connection we would like to state that forest clearance proposal has already been created vide Proposal No. FP/OR/IND/40540412022 and the same is under scrutiny.</p>
3.	Whether SEAC recommended the proposal –	<p>The proposal was placed in the SEAC meeting held on 13.11.2023 and after detailed discussion, the SEAC recommended for Modification of TCR for the proposal over the revised land area of 138.525 acres without changing Terms of References (ToRs) as issued earlier vide no. SIA/OR/IND1/405090/2022 dated 13.03.2023.</p>



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Decision of Authority: Approved

After detailed deliberation on the matter, the authority accepted the recommendation of SEAC and decided to modify the ToR for the proposal over the revised land area of 138.525 acres without changing Terms of References (ToRs) as issued earlier vide no. SIA/OR/IND1/405090/2022 dated 13.02.2023.

APPROVED BY

Member Secretary, SEIAA
Member, SEIAA
Chairman, SEIAA
13.02.24



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.14	
Proposal No.	SIA/OR/TND1/441208/2023
Date of application	06.01.2023
File no.	441208/29-IND-1/10-2023
Project Type	Expansion proposal for EC
Category	B
Project/Activity including Schedule No.	2(b) Mineral Beneficiation
Name of the Project	Expansion EC Proposal for Enhancement in production of Chrome beneficiation plant from throughput capacity of 18,500 TPA to 1,15,000 TPA and monolithic unit from 24,000 TPA to 72,000 TPA of M/S chrome sagar, At: Pubala, Sukinda, Jajpur, Odisha.
Name of the company/Organization	M/s. Chrome Sagar Rajendra Kumar Thatoi, Proprietor
Location of Project	At: Pubala, Sukinda, Jajpur, Odisha.
TOR Date	02.04.2022
Name of the Consultant	M/s. Kalyani Laboratories Private Limited, 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 SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s Chrome Sagar for Enhancement in production of Chrome beneficiation plant from throughput capacity of 18,500 TPA to 1,15,000 TPA and monolithic unit from 24,000 TPA to 72,000 TPA over an area of 7.6 Acre located At: Pubala, Sukinda, Jajpur of Sri Rajendra Kumar Thatoi.
2. **Category:** This project falls under Category "B" under 2(b); Mineral Beneficiation as per EIA Notification dated 14th Sept. 2006 and its amendments.
3. **TOR details:** Terms of Reference was issued by SEIAA, File No: 72961/27-IND/03-2022 dtd. 02.04.2022 for the proposed project.
4. The unit has chrome beneficiation plant of 18,500 TPA throughput Environmental Clearance from MoEF&CC, Govt. of India, vide letter no. 1611/SEIAA dated 06.07.2021.
5. **Public hearing details:** The Public hearing was conducted successfully 14.09.2022 at 11 A.M. at Mouza - Kanchichua.
6. **List of Statutory Clearances obtained earlier -**
 - a) Consent to Establish was granted vide letter No: 179/KNG/TND- 266 dttd 06.02.2020.
 - b) Consent to Operate obtained vide letter no.1692/KNG/TND/266 dttd 08.07.2021 was valid till 31.03.2023.
 - c) Certified Compliance Report issued by Regional Officer, Bhubaneswar, MoEF&CC vide File No: 109-1146/EPE/63 dated 03.08.2023.
7. **Location and connectivity:**
8. Chrome Beneficiation Plant of M/s. Chrome Sagars is coming undervillage Pubala, Po- Mangalpur, Tahasil: Sukinda, Dist- Jajpur at Plot No: 1138,1139/1640 & 1278/1641, 1139, 1152, 1277,1278 and bearing Khata No.: 267/39 & 95. Geo-coordinates of project site is at Latitude: 20°56'04" N



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

& Longitude: 85°33' E. The nearest railway station is Jajpur Road railway station & Sukinda Road railway station located at a 17Km from the project site. It is located at a distance of 2.5km from the Sukinda-hatibari road and nearest village is Pubala village at a distance of 1km. Bhubaneswar Airport is 80km from the site. The nearest water bodies are Brahmani River at 8.5km & Jhamra river-4.5 km. The nearest Reserve Forest is Balibo Reserve Forest at 1km distance. The project falls under Survey of India bearing **Topo sheet no. 451/13.**

9. **Baseline study conducted:** Baseline study was conducted during Pre-Monsoon season of 2022 i.e. from March to May, 2022.

a) **Ambient Air monitoring:** -Ambient Air Quality was monitored at eight sampling stations, and the monitoring were conducted for a period of three months. PM₁₀ is within range of 55.6 $\mu\text{g}/\text{m}^3$ to 84.1 $\mu\text{g}/\text{m}^3$, PM_{2.5} is within range of 30.6 $\mu\text{g}/\text{m}^3$ to 46.2 $\mu\text{g}/\text{m}^3$, SO₂ is within range of 4.3 $\mu\text{g}/\text{m}^3$ to 12.3 $\mu\text{g}/\text{m}^3$ and NO_x is within range of 13.4 $\mu\text{g}/\text{m}^3$ to 22.3 $\mu\text{g}/\text{m}^3$.

b) **Ground Water quality monitoring:** Groundwater quality parameters were monitored at 8 locations. pH is within range of 6.6 – 7.6, Total Hardness is within range of 28 to 192 mg/l, Chloride is within range of 12 to 70 mg/l, Fluorides is within range of 0.06 to 0.8 mg/l, TDS is within range 36 to 360 mg/l. Heavy metals like Cadmium, Arsenic, Mercury and Chromium are within the range of Cd <0.001mg/l, As <0.001mg/l, Hg<0.0005mg/l Cr⁶⁺<0.05mg/l.

c) **Surface Water quality monitoring:** Surface water quality parameters were monitored at 4 locations. pH is within range of 6.8 to 7.3, Dissolved Oxygen is within range of 6.7 to 7.6 mg/l, Biochemical Oxygen Demand is within range of 2-4 mg/L, Chemical Oxygen demand is within range of 15 – 35 mg/L & Cr⁶⁺<0.05mg/l.

d) **Ambient Noise monitoring:** Noise level in the study area was monitored at eight sites. Noise levels vary from 40.4 to 50.7dB (A) during day time and 31.2 to 41.3dB (A) during night time.

e) **Soil monitoring:** Soil samples were collected from four locations. The pH of the samples ranged from 5.5 to 6.5, Potassium –228.5 to 376 mg/ kg, Phosphorous –27.9 to 48.1 mg/ kg, Organic Carbon% – 0.56 to 1.07, Electrical Conductivity- 60 to 100 $\mu\text{mhos}/\text{Cm}$, Total Chromium – 45.74 – 55.26 mg/ Kg, Hexavalent Chromium – 5.6 to 9.5 mg/Kg.

10. Process Details:

a) **Details of Minerals:** The beneficiation process of chrome ore involves up-gradation of low-grade chrome ore (<35-38% Cr₂O₃) to semi high-grade ore (48-52% of Cr₂O₃). Raw material procured from OMC Chromite mines located in Sukinda valley.

b) **Beneficiation process:** The project is a standalone beneficiation plant. The beneficiation process of chrome ore involves up-gradation of low-grade chrome ore (<35-38% Cr₂O₃) to semi high-grade ore (48-52% of Cr₂O₃). The beneficiation process of chrome ore includes dispersal of the ferruginous coating and removal of the gangue material from the ore. Before the low-grade feed to the beneficiation plant the chromite, ore lumps were screened and oversized material i.e. 20 to 100 mm size material will be sent to the grinding unit. The Recovery rate is 70-75% (in weight). The COB Plant will consist of the following activities; Feeding to the Hopper – 20 TPH, Conveyor, Wet screening (2 nos) (0-1mm and 1-75mm), Wet grinding – 20 TPH, Slurry Pump (7 nos) – 5 TPH, Spiral separator (24 nos) – 5 TPH, Hydro cyclone (3 nos) – 10 TPH, settling tanks, Dosing of Chemicals, Collection & Disposal of tailing, Water Reservoir, Handling of rejects materials, Recovery of concrete.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- c) Land use at the end of plan period and at conceptual stage: The existing plant is present plant is operating over an area of 2.2 acres. Additional land of 5.4 acres has been acquired by the project proponent and converted for Industrial purpose.

S. No	Head	At present at the (Ha.)/ Existing Area	At the end of SOM of period (Ha.)/ Proposed Area	At the end of conceptual period (Ha.)/ Total Land use after Expansion
i)	Rain Water Reservoir	0.18	0.11	0.29
ii)	ETP & Settling Tank	0.07	0.27	0.34
iii)	Raw Material Stock Yards	0.31	0.19	0.5
iv)	Finished Products Stock Yard	0.05	0.17	0.22
v)	COB Plant	0.15	0.45	0.6
vi)	Road and Parking	0.25	0.15	0.4
vii)	Office, Weigh Bridge and Rest Shade and Electrical Panel	0.1	0.03	0.13
viii)	Refractory Unit	0.18	0.18	0.36
ix)	Tailing Stock Yard	0.18	1.18	1.36
x)	Green Belt	0.73	1.73	2.51
xi)	Open space	—	0.89	1.89
	Total	2.2	5.4	7.6

11. **Transportation of raw Material:** The raw material i.e. low-grade chrome ore will be sourced from mines of Odisha Mining Corporation, Sukinda which is located at a distance of 25 Km from the project site. The transportation of ore from the mines to the project site will be done through covered trucks.
12. **Water requirement:** The total water requirement for the proposed project will be 875 KLD and make up water requirement for process will be 44 KLD. The water requirement for drinking purpose will be 3 KLD, for dust suppression will be 5 KLD and for plantation will be 5 KLD. Total makeup water requirement for the proposed expansion project will be 57 KLD. Out of the total water requirement 32 KLD will be sourced from ground water and 25 KLD will be sourced from RWH pond. They have obtained permission for drawl of 48 KLD ground water from CGWA.
13. **Wastewater details:** The process water is completely recycled in the process and the water is treated in existing ETP for hexavalent chromium.
14. **Rainwater harvesting details:** They have 5 nos. of existing rainwater reservoir. The total harvestable rainwater is 7740 Cu.m/Annum. They have proposed for another rain water reservoir of capacity 6064 Cu.m/Annum. Water storage in the rain water harvesting pond is 8271 cu.m which will be utilized as make up water requirement for the beneficiation plant. The rain water harvesting structure will provide the makeup water requirement for the plant upto 25 KLD. Total makeup water requirement will be 57 KLD and rest 32 KLD water will be sourced from ground water.



- 15. Power Requirement & Solar power details:** The total power requirement for plant operation will be about 100kVA. The company proposed to utilize solar power for all the lighting within the plant by generating 5KW.
- 16. Solid waste generation:** The major solid waste is the tailings generated from the beneficiation process. The quantity of tailings to be 30000 TPA having <10% Cr₂O₃. The tailing after passing through the filter press will be transported to the chrome monolithic unit where it will be used as raw material for monolithic plant.
- 17. Mitigation of solid waste produced:** The amount of Tailing generated from the beneficiation plant will be 30,000 TPA from which 18,000 TPA will be utilized in the monolithic unit. Remaining tailing (12,000 TPA) will be stored in the tailing disposal area. An area of 6000 sq.m has been allocated for tailing storage within the project site. An agreement has been made with M/s. Ratnkey for tailing disposal of 3000 Tons per month. The plant has proposed to operate as zero solid waste generation. The tailing pond has been provided with of 200mm thick concrete wall. The concrete mixture added with special chemical to prevent any water seepage which ensures any leaching of hexavalent chromium to surrounding.
- 18. Greenbelt Development:** The proponent has proposed for additional plantation area of 722 sq.m with existing plantation area of 2938sqm thus, the total greenbelt area is 10149sq.m i.e., 33% after expansion.
- 19. Total Employment:** The project generates employment opportunities for 70 personnel which includes operator -10, supervisor 6, 25 no of semi-skilled labour and 29 no of unskilled labour.
- 20. Project Cost:** The project cost after expansion is ₹ 3.0 Crore. The Capital cost for EMP is ₹ 32.0 Lakhs and recurring cost is 5.0 lakhs. Cost allocated for implementation of public hearing issues is 30.0 Lakhs
- 21. Environment Consultant:** The Environment consultant M/s Kalyani Laboratories Private Limited, Bhubaneswar along with the proponent made a presentation on the proposal before the Committee on 18.10.2023.
- 22.** The SEAC in its meeting held on dated 18-10-2023 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:

S L N o .	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
i.	Land document of 2.2 acres of existing plant premises and additional land of 5.4 acres already acquired for proposed expansion.	Land document for the entire land of 7.6 acres is attached Annexure 1 .	Copy submitted
ii.	Comparison statement of all parameters for existing and proposed expansion activities.	Comparative statement of all parameters for existing and proposed expansion activities has been given in Annexure 2 .	Comparative table submitted

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

 ODISHA STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY ODIA STATE GOVERNMENT OF ODISHA	<p>Agreement made with M/s Ramkey (A Hazardous waste disposal TSDF facility) for disposal of tailings cannot be accepted and hence to Modify the proposal w.r.t. handling and disposal of entire tailings and Resubmit before the SEAC.</p>	<p>As per the material balance 30000 TPA of tailing will be generated out of which 18000 TPA will be used for chrome minralitic unit. Rest 12000 TPA will be stored in the defined tailing disposal area. The revised layout plant and tailing disposal details has been given in Annexure 3.</p>	Submitted
v.	<p>Revised waste management plan for handling total waste generated at the plant premises taking into consideration the enhancing the capacity of the plant and subsequent unit operations.</p>	<p>Revised tailing generation and disposal proposal for the proposed expansion proposal is given as Annexure 3.</p>	-
vi.	<p>Copy of traffic study report duly vetted by an institute of repute.</p>	<p>Vetted traffic study report is attached as Annexure 4.</p>	As per the Traffic study report the LC is 'B' at present.
vii.	<p>Details regarding parking plaza (how trucks will enter, exit, Slope, parking and turning area) and open space available for movement of vehicles to cater to the increased vehicular movement of Approx. 32 trucks/day.</p>	<p>Parking area of 0.4 acres has been provided within the plant premises. Out of the total area 0.1 acres has been allocated for parking of staff vehicles and 0.3 acres has been allocated for parking of 36 nos of trucks. However, truck required for transportation of raw material and products are 32 nos per day and that can be accommodated within the plant premises. There is the separate entrance and exit gate for trucks and open space available for movement of trucks. Details of parking regarding entry and exit of trucks is given in Annexure 5.</p>	Annexure 5 the Layout showing Parking area places in project site.
ii.	<p>Copy of revised layout of the total area including existing and proposed expansion activity with parking plaza.</p>	<p>Details of parking regarding entry and exit of trucks is given in Annexure 5</p>	Submitted

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



	Copy of material balance and water balance for the proposed project.	Details of material balance and water balance attached Annexure 6	submitted			
x.	Details of the settling tanks with layout and proposal for removal of sludge from the settling tanks.	Presently there are three settling tanks which are used for settling of the process water which is the overflow of the hydro cyclone. After settling the water is pumped to the water storage tank the sludge from the tank will be excavated and stored in the tailing disposal area details layout of the settling tank is given in the layout plan.	-			
x.	Explore mechanised handling of slurry/tailings through clarifier/thickener instead of settling tank with filter press for de-watering of tailings.	The clarifier and thickner system is already been installed in the ETP However for the process tailing dewatering will be done by the filter press as the clarifier and thickener system will not work for the tailing. Details process of ETP is given in Annexure 7 .	process of ET is explained Annexure 7			
ii.	Certified compliance report of conditions stipulated in earlier Environmental Clearance from Regional Office, MoEF&CC and certified compliance report of conditions of existing Consent to Establish and Consent to Operate order from SPCB.	Certified compliance report from MoEF&CC and compliance report of Consent to establish and consent to Operate is attached Annexure 8	submitted			
iii.	Detailed analysis report of the composition of tailings generated from the process.	Detail analysis report of the composition of tailing generated from the process Annexure 9 .	submitted			
iv.	Comparative table showing the present and proposed ore grade, recovery %, feed input into the spiral unit of beneficiation plant.	Comparative table showing the present and proposed ore grade, recovery%, feed input into the spiral unit of beneficiation plant is as below:	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Attributes</th> <th>Existing</th> <th>Proposed</th> </tr> </thead> </table>	Attributes	Existing	Proposed
Attributes	Existing	Proposed				

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



	Production	18500 TPA	1,15,000 TPA	
	Feed	1	1	
	Size to scrubber	20mm to 100 mm	20mm to 100 mm	
	Concentrate	- 1mm	- 1mm	
	Feed grade	35 - 38% Cr2O3	35 - 38% Cr2O3	
	Recovery	Cr2O3 (48.52%)	Cr2O3 (48.52%)	
	Recovery percentage	65%	70-75%	
	Feed at Spiral			
	No of working hours	8 hr	24 hr	
	No of shifts	1 shift	3 shifts	
v.	Details of Plant machinery and equipment installed along with their capacities.	Details of plant machinery and equipment installed along with their capacities given in Annexure 10.		submitted
vi.	A comparison statement of the present and proposed equipment's.	Comparison table of the present and proposed equipment details is given Annexure 10		submitted
vii.	In the public hearing, there was complaint regarding discharge of muddy water into the nearby agricultural land. Hence the proponent shall submit comprehensive action plan to address the issue of runoff management to avoid muddy	Comprehensive action plan for runoff management to avoid muddy water discharging into the agricultural field. Annexure 11.		submitted



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

	water discharging into agricultural fields.					
	Proposal to construct a holding pond for storage of run-off during monsoon and discharge after treatment.	There will be construction of holding pond of 6064 cu.m capacity near the rain water harvesting pond for storage of runoff during monsoon and discharge after treatment.	submitted			
L	Proposal for utilization of surface run-off and process effluent and maintaining Zero Liquid Discharge (ZLD).	The surface runoff will be stored in the rain water harvesting pond and after settling this will be utilized in the process. Detail surface water management plan is given in Annexure 11	submitted			
x.	Detailed proposal for Surface Runoff treatment System and Effluent Treatment Plant within the plant premises.	The surface runoff will be stored in the rain water harvesting pond and after settling this will be utilized in the process. Detail surface water management plan is given in Annexure 11	submitted			
Considering the information furnished and the presentation made by the consultant, M/s Kalyani Laboratories Pvt. Ltd. Bhubaneswar along with the project proponent.						
2.	Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 28.12.2023 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per Annexure – E in addition to the following specific conditions:					
i)	The waste water that will be generated from the tailings shall be treated in ETP wherein hexavalent Chromium shall be reduced to trivalent Chromium by dosing it with appropriate standard chemical following due technical procedure.					
ii)	The PP shall obtain NOC to use the Panchayat roads from the concerned BDO for transportation of both input materials and finished products including the responsibility of maintaining the road if damaged by such transportation.					
iii)	The big trees including the fruit bearing trees shall not be cut and if necessitated to relocate, the same may be de-rooted and replanted in green belt area alongside the boundary wall. If it becomes inevitable to cut the said trees, the same may be done only with due necessary permission from appropriate authority of forest department, Government of Odisha with necessary compensatory plantation/ afforestation as per the applicable rules/ laws.					
Decision of Authority: Approved						
After detailed deliberation on the matter, the authority decided to grant EC with standard and specific condition as recommended by SEAC.						

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA
13.02.24



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH I.O, AGENDA No.155.15	
Proposal No.	SIA/OR/MIN/60333/2021
Date of application	20.06.2022
File no.	60333/260-MINB1/07-2022
Project Type	New proposal for EC
Category	B
Project/Activity including Schedule No.	I(a) Mining of Minerals
Name of the Project	Proposal for EC for Hazaridanga Stone Quarry (I to VIII) over a cluster area of 11.938 hectares/ 29.49acres (consisting of 8 nos. quarries) located at Village - Hazaridanga, Tahasil - Kolnara, District - Rayagada of Tahasildar, Kolnara.
Name of the company/Organization	Tahasildar, Kolnara
Location of Project	Village - Hazaridanga, Tahasil - Kolnara, District - Rayagada of Tahasildar, Kolnara
ToR Date	09.03.2021
Name of the Consultant	M/s P&M Solution, Noida -201301 - U.P

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 is for Environmental Clearance for Hazaridanga Stone Quarry (I to VIII) over a cluster area of 11.938 hectares/ 29.49acres (consisting of 8 nos. quarries) located at Village - Hazaridanga, Tahasil - Kolnara, District - Rayagada of Tahasildar, Kolnara.
2. The project falls under category "B" or activity I (a) - Mining of Minerals under EIA Notification dated 14th September 2006 as amended from time to time.
3. Hazaridanga Stone Quarry (I to VIII, cluster of 8 Quarries) is located at village Hazaridanga, Tahsil Kolnara, District Rayagada of Odisha. The project is proposed by the Tahasildar, Kolnara, Rayagada. The proposed project is in cluster situation as 8 leases are within 500 m radius & total lease area becomes greater than 5 ha. The total cluster area granted under QL is 11.938 ha within 500m.
4. Details of 8 Stone Quarries under total cluster area of 11.938Ha, is given in Table:

Sl no.	Name of Quarry	Lease area (Ha.)	Land Schedule	Kissa m
a)	Hazaridanga Stone Quarry I	1.011	Khata No-6, Plot No -37	Pahad
b)	Hazaridanga Stone Quarry II	2.024	Khata No-6, Plot No -37	Pahad
c)	Hazaridanga Stone Quarry III	2.024	Khata No-6,Plot No -99	Pahad
d)	Hazaridanga Stone Quarry IV	1.214	Khata No-6,Plot No - 84	Pahad
e)	Hazaridanga Stone Quarry V	1.214	Khata No-6,Plot No - 84(p)	Pahad
f)	Hazaridanga Stone Quarry VI	2.023	Khata No-6,Plot No - 98(p)	Pahad



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

g)	Hazaridanga Stone Quarry VII	1.214	Khata No-6, Plot No - 98(p)	Pahad
h)	Hazaridanga Stone Quarry VIII	1.214	Khata No-6, Plot No -84	Pahad
Total		11.938		

5. The Hazaridanga Stone Quarry (I to VIII) is proposed on Khata no- 6, Plot no- 84, 37, 99, 84, 98(p), 84(p), 98(p) of Pahad Kissa in village Hazaridanga in Tahsil Kolmara in Rayagada District of Odisha. The mining lease area is identified and listed in the DSR of stone and is mentioned in the DSR page no – 25, 26, 32 &34, Serial no – 1,8,2,3,6,7 & 8 of the Rayagada district . Hazaridanga Stone Quarry (I to VIII) is a minor mineral extraction project for exploitation of stone. The average production from the cluster is proposed to be 27650 cum/year and total production from the cluster will be 133332 cum during the valid lease period of 5 years.
6. **Location and Connectivity** – The area under discussion is featured in Survey of India Topo Sheet No – 65M/7, 65M/8, 65M/11 & 65M/12 and is bounded between the Latitude –19° 14' 50.00" N to 19° 15' 22.17" N , Longitude –83° 29' 46.66" E to 83° 30' 14.85" E. The lease area is located at a distance of 0.4km from village Hazaridanga and at a distance of 04 kms from Kolmara, 12.0 kms from the District Headquarters Rayagada and 495.0 kms from the State Capital Bhubaneswar, Rayagada Railway station is the nearest railway station located at a distance of 13 kms from the lease area. Nearest Road bridge is at a distance of 4.2 km from the mining lease area, Metal road connecting to the lease area and with the village Hazaridanga is at distance of 0.1 km, SH – 4 is the nearest State Highway at a distance of 1.1kms. Major district road is at distance of 1.1 km. NH-43 is the nearest National Highway which is at a distance of 87 km.
7. The Mining Plan of each stone-quarry (8Nos.) has been approved by the approving authority, Office of the Joint Director of Geology, Zonal Survey, Koraput.
8. TOR has been granted from SEIAA vide letter no 880/SEIAA dated 09.03.2021 for Hazaridanga Stone Quarry (I to VIII) over an Cluster area of 11.938 ha/29.49 Acre of stone in village- Hazaridanga, Tehsil - Kolmara, District- Rayagada, Odisha.
9. The public hearing was conducted on 21st September, 2021 at 11.00A.M in RMC Godown at Padalekapal village (Near Hazaridanga village) under Kolmara Tehsil, District Rayagada.
10. Baseline Study was conducted during period for post monsoon season of 2020 i.e. from October to December, 2020.
11. **Geological and Mineable Reserve** -Reserve is calculated basing on the existing quarry/surface exposures and cross sectional area method has been taken suitably for reserve estimation. The cross sectional area of the road metal is computed for each section by graphical method. For the purpose of estimation of quantity of the road, railway and building materials, recovery factor is taken as 90% of total rock mass while remaining 10% is assumed to be waste consists of weathered rock and soil.

S no.	Name of the Quarry	Geological reserve (cum)	Mineable reserve (cum)
a)	Hazaridanga Stone Quarry I	2,19,745	84,625
b)	Hazaridanga Stone Quarry II	2,87,562	1,77,973

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



e)	Hazaridanga Stone Quarry III	134,078	93,252
d)	Hazaridanga Stone Quarry IV	2,73,167	1,15,684
e)	Hazaridanga Stone Quarry V	3,15,057	1,12,417
f)	Hazaridanga Stone Quarry VI	5,16,684	2,55,888
g)	Hazaridanga Stone Quarry VII	3,19,938	1,48,230
h)	Hazaridanga Stone Quarry VIII	1,47,735	88,717
	8 nos.	22,15,966	10,76,786

12. Method of Mining - Mining will be done by Opencast semi-mechanized method with adopted of drilling & blasting. There is practically no OB at proposed site as it is already broken. The excavation in ore zone will be carried out by HEMM. In order to prevent haphazard excavation of pits and suitable blending of ore, the excavation has been proposed at one place. Sorting and sizing will be done manually also. The working has been proposed bench will be of height 6m and width 6m.

13. Total Production of the Hazaridanga Stone Quarry (I to VIII) Under Cluster Approach

Sl.No.	Name of Quarry	Useable Rock (cum)	Waste (cum)
a)	Hazaridanga Stone Quarry	13034	686
b)	Hazaridanga Stone Quarry II	24348	2704
c)	Hazaridanga Stone Quarry III	24402	2704
d)	Hazaridanga Stone Quarry IV	10854	1205
e)	Hazaridanga Stone Quarry V	22842	2536
f)	Hazaridanga Stone Quarry VI	11360	2840
g)	Hazaridanga Stone Quarry VII	11372	599
h)	Hazaridanga Stone Quarry VIII	15120	1680
Total	8 Nos.	133332	14956

14. The waste generated from the cluster is expected to be 14956 Cu.m. and volume of top soil is 19090 Cum. during the plan period are not useable for construction purpose, so these materials will be dumped in the temporary dump of 3 – 8 m height which will be utilized for approach road developers and maintenance purposes. The top soil available will be used for plantation activity and the waste material, which is normally in the form of weathered material, is used for filling, road making and maintenance within the lease hold area only.

15. Employment Potential - Total number of employments will be around 101 numbers, including Management, Supervisory personnel, Skilled, Semiskilled and Unskilled.

16. Water Requirement - 87 KLD of water will be required for drinking, domestic purpose and for dust suppression. Water will be withdrawn from tube wells from nearby village through water tankers.



- Plantation** - Green belt shall be developed along the Safety zone of the lease area with the native tree species. The plantation proposal has been given to plant around 9870 saplings over safety zone of whole cluster and both sides of approach road. Species likely to be planted are Teak, Acacia Neem, Mahua etc as per the availability. Spacing between the saplings will be kept 2.5 meters x 2.5 meters only. (Plantation has been given 2500 Plants/hac.).
18. The estimated project cost is * 2.4 crores and EMP cost is Rs. 57,54,000 lakhs and recurring cost is Rs. 56,80,000.
19. The project proponent along with the consultant M/s P&M Solution., Noida -201301 – U.P made a detailed presentation on the proposal on 05.08.2022.
20. The SEAC in its meeting held on 05.08.2022 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.
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
a)	Installation of STP of adequate capacity and requisite design.	This is not applicable as the domestic waste water will be treated by septic tank.
b)	Proposed mitigation measures/ SOP for flying rock.	Mitigation measures for the fly rock during blasting have been given below: <ul style="list-style-type: none"> • Parking all vehicles and equipment a safe distance from the blasting area whenever possible. • Staying behind a blast shield or blast mats for fly rock protection during blasting • Making sure everyone has evacuated the blast area before proceeding • Always following the supervisor's instructions. • Scrupulously guarding the access roads to the blast area and otherwise maintaining good blast site control.
c)	Sketch map showing Dump management, garland drain and silt management and photographs of that area.	Detail has been attached as Annexure i.
d)	Risk involved and measures to be taken for Dump stabilization and dump management.	Retaining wall will be provided all along the perimeter of the dump to prevent hazardous situation and wash up of the dump and garland drain will be constructed side by side of the retaining wall for proper drainage of rain water, so that dump floor area should not be damage by the rain water. Before letting the garland drain water outside the lease, it will be passed

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



		through the settling tank for settlement of the mud carried from the dump area.
e)	Green belt in safety zone of each mine and all-round the clusters to be confirmed with details.	Plantation will be done all along the safety zone of each mine site and all around the clusters. Detail has been given in Annexure II .
f)	Arrangement of pipeline sprinkling (permanent water line) to be explored and confirmed.	Undertaking has been attached as Annexure III .
g)	Silt management and detailed plan for the same to arrest remedy of silt ingress to surrounding agricultural lands.	Management of silt management will be managed by the construction of settling tank and garland drain at a direction of water flow from the mining lease area (Settling tank and Garland Drain detail has been attached as Annexure I).
h)	Safety measures during blasting including provision of warning to be submitted.	<p>Preparation of charging and stemming of holes will be done by a qualified blaster.</p> <p>Before a shot is charged, stemmed or fired, sufficient warnings by signal is given over the entire area falling within the danger zone and ensure that all persons within such area have taken proper shelter.</p> <ul style="list-style-type: none"> • During blasting, controlled blasting will be done to prevent flying fragments which may cause injury to local inhabitants within danger zone. <p>Prefer inspection after shot firing will be done by the blaster.</p> <p>The number of shots which exploded shall be counted by the blaster to assess misfire. All necessary precautions as enumerated under 106(2) (b) of MMR 1961 will be followed.</p>

22. The SEAC in its meeting held on 05.08.2022 decided to take decision on the proposal after site visit of the Sub-Committee of SEAC. The SEAC opined that the proposed area is far and possibility for site visit to the place by SEAC Members is not possible.

23. The SEAC in its meeting held on dated 11-09-2023 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
a)	Video showing the cluster lease area with geo coordinates, transportation road of the cluster, Mine area of all quarries present in	The video of the above mentioned quarries have been sent to the mail id seac.odisha.2019@gmail.com showing the cluster area	Video submitted



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

	cluster and previous mining activity.	transportation road and mining area of all quarries present in cluster and their mining activity. Photographs have been attached for your reference as Annexure - I .	
b)	Fresh KML file.	The fresh KML file has been sent to the mail id seac.odisha.2019@gmail.com and the PDF format of KML file has been attached for your reference as Annexure - II .	Kml file submitted
Considering the information / documents furnished by the proponent and presentation made by the consultant M/s P & M Solution, Noida., on behalf of the proponent,			
2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 29.12.2023 and the SEAC approved the EIA/EMP report in cluster approach and recommended the following:			
<ul style="list-style-type: none">a) The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease for Hazaridanga Stone Quarry (I to VIII) cluster without referring to SEAC with specific conditions as per Annexure - D after receipt of individual applications from the lessee in cluster along with following documents.<ul style="list-style-type: none">i) Filled in form-I of individual leaseii) Prefeasibility report of individual leaseiii) EMP of individual lease.iv) Approved Mining Plan of individual lease.v) Report on vibration study.vi) DLC status of the lease area from concerned DFO as certified by the concerned Tahasildar.vii) An Undertaking by the lessee not to use wagon drilling blasting to be submitted. Accordingly, specific condition to be stipulated in EC of individual lease.viii) No storage and usage of blasting materials/explosives inside the lease area without license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983 shall be ensured by the lessee. An undertaking to this effect shall be submitted by the lessee. Accordingly, specific condition to be stipulated in EC of individual lease.ix) An undertaking to obtain NOC from CGWA and permission from WR department, Govt. Of Odisha for use of ground water. Accordingly, specific condition to be stipulated in EC of individual lease.x) The project proponent shall 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.xi) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for fodder, flora, fauna etc. after ceasing mining operation that is at the time of mine closure.			

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- (iii) A condition on SOP for blasting and safety on management of flying rock to be implemented and detail risk and hazard management procedure shall be followed by the lessee as per the Annexure-E.
- xiii) Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.

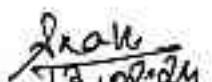
Decision of Authority: Approved

After detailed deliberation on the matter, the authority accepted the recommendation of SEAC and approved the cluster EIA&EMP report with a capital cost of Rs.57,54,000/- and recurring cost Rs.56,80,000/- per annum. The individual EC application in cluster will be considered after submission of documents as recommended by SEAC.

APPROVED BY


Member Secretary, SEIAA


Member SEIAA


Chairman, SEIAA
Tg/08/24



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

PARIVESH 1.0, AGENDA No.155.16

Proposal No.	SIA/OR/MIN/438576/2023
Date of application	26.08.2023
File no.	438576/832-MINB1/09-2023
Project Type	New proposal for EC in cluster
Category	B1
Project/Activity including Schedule No.	I(a) Mining of Minerals.
Name of the Project	Proposal for EC for Proposed Stone Quarry of Uppalada Stone Quarry - I, IV, VIII, IX (under cluster approach of Uppalada Stone Quarry - I, II, III, IV, V, VIII, IX) is a stone mining project over an area of 20.478 Ha. and Total Cluster area of 39.811 Ha. located in village - Uppalada, Tahasil - Paralakhemundi in District - Gajapati of Odisha.
Name of the company/Organization	TAHSILDAR, PARALAKHEMUNDI
Location of Project	Uppalada, Tahasil - Paralakhemundi in District - Gajapati of Odisha
ToR Date	02.09.2022
Name of the Consultant	M/s P & M Solution, Noida

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.

This proposal is for Environmental Clearance of Uppalada Stone Quarry - I, IV, VIII, IX (under cluster approach of Uppalada Stone Quarry - I, II, III, IV, V, VIII, IX) is a stone mining project over an area of 20.478 Ha. and Total Cluster area of 39.811 Ha. located in village - Uppalada, Tahasil - Paralakhemundi in District - Gajapati of Tahsildar Paralakhemundi.

Category: As per EIA Notification 2006 and its subsequent amendments, the proposed project falls under Category B in the Schedule of Item 1(a) - Mining of Minerals.

The Mining Lease has been granted for Uppalada Stone Quarry - I vide letter no 7325/Sairat, date 31.12.2019; Uppalada Stone Quarry - IV vide letter no 5705, date 19.08.2021; Uppalada Stone Quarry -VIII vide letter no 2783/Sairat, date 17.07.2020; Uppalada Stone Quarry - IX vide letter no 286/ Sairat, date 20.01.2021.

The Successful Bidder for Uppalada Stone Quarry - I is Gaddi, Venkata Ramana, S/o G. Laxminarayana, Seri Street, Paralakhemundi. The Successful Bidder for Uppalada Stone Quarry - IV, Ami Gopal Rao, A/T PO- Paralakhemundi. The Successful Bidder for Uppalada Stone Quarry - VIII Gunna Komali, W/o G. Koteswar Rao, Vill- Tekeli, Andhra Pradesh. The Successful Bidder for Uppalada Stone Quarry - IX, J. Jagan Babu, S/o J. Rama Rao, Al/Po- Big Brahmin Street, Paralakhemundi, Gajapati.

The Mining Plan of Uppalada Stone Quarry - I has been approved by Deputy Director of Geology, O/o The Joint Director of Geology,(S.Z.), Berhampur on dated 01.07.2020. The Mining Plan of Uppalada Stone Quarry - IV has been approved by Deputy Director of Geology, O/o The Joint Director of Geology,(S.Z.), Berhampur on dated 25.08.2021. The Mining Plan of Uppalada Stone Quarry - VIII has been approved by Deputy Director of Geology, O/o The Joint Director of Geology,(S.Z.), Berhampur on

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Dated 06.10.2020. The Mining Plan of Uppalada Stone Quarry – IX has been approved by Deputy Director of Geology, O/o The Joint Director of Geology (S.Z.), Berhampur on dated 20.07.2021.

This is a new mine in cluster approach. Mining lease is an identified sairat source in the DSR Uppalada Stone Quarry – I - Annexure II, Sl No 03; Uppalada Stone Quarry – IV - Annexure III, Sl No 11; Uppalada Stone Quarry – VIII - Annexure II, Sl No 02; Uppalada Stone Quarry – IX- Annexure 1, Sl No 06.

The TOR has been granted by SEIAA, Odisha for Uppalada Stone Quarry – I , vide letter no. 5338/SEIAA Dt. 02.09.2022; Uppalada Stone Quarry – IV , vide letter no. 5340/SEIAA Dt. 02.09.2022; Uppalada Stone Quarry – VIII , vide letter no. 5342/SEIAA Dt. 02.09.2022; Uppalada Stone Quarry – IX , vide letter no. 5344/SEIAA Dt. 02.09.2022.

Mine	Mining Approval	Plan	TOR Granted Date
Uppalada-I Stone Quarry	Date. 01.07.2020		vide letter no. 5338/SEIAA Dt. 02.09.2022
Uppalada-IV Stone Quarry	Date. 25.08.2021		vide letter no. 5340/SEIAA Dt. 02.09.2022
Uppalada-VIII Stone Quarry	Date. 06.10.2020		vide letter no. 5342/SEIAA Dt. 02.09.2022
Uppalada-IX Stone Quarry	Date. 20.07.2021		vide letter no. 5344/SEIAA Dt. 02.09.2022.

Location and connectivity: Uppalada Stone Quarry - I, IV, VIII, IX (Under Cluster) is located at village Uppalada, Tahsil - Paralakhemundi, District Gajapati in Odisha. The area falls in Survey of India Topo sheet No. E45GL. The Nearest distance of approach road is 2430 m. The nearest NH/SH is National Highway is NH- 326A at a distance of 0.85 km towards West direction; State Highway is SH- 4 at a distance of 5.0 km towards South direction. Nearest Airport is Swami Vivekanand International Airport is approx. 95 km towards NW direction. Nearest Waterbody is Mahendra Taraya Dam, approx.5.4 km from the Lease Area. Nearest road bridge is at a distance of approx. 1.0 km from Uppalada Stone Quarry – I, IV, VIII and IX. The Nearest River Embankment is at a distance of 1.0 Km from Uppalada Stone Quarry – I, IV, VIII and IX. The Nearest Electric Transmission Line Pole is at a distance of 0.95 Km from Uppalada Stone Quarry – I, IV, VIII and IX.

Sl. No.	Name of Quarry	Lease Area	Land Schedule	Kissam	Status Mine
i)	Uppalada-I Stone Quarry	4.90 Ha.	Khata No- 376 Plot No - 1370, 1372	Parbat-II	EC applied
ii)	Uppalada-IV Stone Quarry	4.928 Ha.	Khata No- 376 Plot No - 1724	Parbat-II	EC applied
iii)	Uppalada-VIII Stone Quarry	5.90 Ha.	Khata No- 376 Plot No - 1725	Parbat-II	EC applied
iv)	Uppalada-IX Stone Quarry	4.75 Ha.	Khata No- 376 Plot No - 1726/1	Parbat-II	EC applied

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Total reserves and production: The total Geological Reserves for the cluster is 4702038 cum, Mineable Reserves for the cluster is 2979131 cum, and the Proposed Production for the cluster is 15354 cum/year the details are given below

Table: Year wise production

Year	Vol. of Sand in (m ³)			
	Uppalada a Stone Quarry- I	Uppalada Stone Quarry- IV	Uppalada a Stone Quarry- VIII	Uppala da Stone Quarry- IX
1 st	3294	4500	2160	4050
2 nd	3294	4770	2160	4050
3 rd	3294	5220	2160	4050
4 th	3294	5580	2160	4050
5 th	3294	5850	2160	4050
TOTAL	16470	25920	10800	20250

Table: Total reserves

S. N o.	Name of the Quarry	Geologi cal Reserv es (cum)	Mineab le Reserve (cum)	Production (Cum/annu m)
i)	Uppalada-I Stone Quarry	118071 0	746773	3294
j)	Uppalada-IV Stone Quarry	919620	512784	5850
i)	Uppalada- VIII Stone Quarry	187278 9	126550 6	2160
v)	Uppalada-IX Stone Quarry	728919	454068	4050
	Total	470203 8	297913 1	15354

- 10) **Mining method:** Mining will be done by opencast semi-mechanized method with adoption of drilling & blasting. Mining will be done by deploying machines like jackhammer, drill compressor, rock breaker, excavator and tractors/trucks. The Proposed depth of mining is as per approved mining plan.

Mine	Depth(m RL)
Uppalada Stone Quarry- I	Upto 100 RL
Uppalada Stone Quarry- IV	Upto 126.80 RL



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Uppalada Stone Quarry-VIII	Upto 158 RL
Uppalada Stone Quarry- IX	Upto 82 RL

1. Waste generation:

Mine	Waste (cu.m.)
Uppalada-I Stone Quarry	1,830
Uppalada-IV Stone Quarry	2,880
Uppalada-VIII Stone Quarry	1,200
Uppalada-IX Stone Quarry	2,250
Total	8,160

2. Water requirement: Total Water Requirement for the proposed cluster project is 28.43 – 28.50 KLD.

Activity	Calculation	Round off Figure in KLD
Drinking	@ 10 lpcd per labor $10*55/1000 = 0.55$ KLD	0.55
Dust Suppression	Total approach road to be water sprinkled - 2430 m $2430 \text{ m} * 6\text{m} * 0.5 * 2 \text{ times}/1000 = 14.58$ KLD	14.58
Plantation	6632 plant (during plant period) @ 21/liter per plant= $6632 * 2 \text{ lts} = 13264/1000$ 13.264 – 13.30 KLD	13.30
Total		43 = 28.50 KLD

3. Public hearing was conducted on 16.12.2022 at 11:00 PM at Gram Panchayat Office of Uppalada village in Gajapati District. Issues raised during public hearing are vibrational impact due to drilling and blasting; impacts on agriculture; dust in the environment; noise impact; environment protection; provision of guard wall in the ML area; peripheral development; road maintenance; plantation and employment.

4. Baseline study details: Baseline Study for the proposed project was conducted during March, 2022 to May, 2022. Results of the study are as below:

Air Quality Monitoring Results	
PM ₁₀	50.23 $\mu\text{g}/\text{m}^3$ to 77.38 $\mu\text{g}/\text{m}^3$
PM _{2.5}	25.23 $\mu\text{g}/\text{m}^3$ to 44.15 $\mu\text{g}/\text{m}^3$
SO ₂	6.15 $\mu\text{g}/\text{m}^3$ to 11.82 $\mu\text{g}/\text{m}^3$
NO _x	8.03 $\mu\text{g}/\text{m}^3$ to 20.4 $\mu\text{g}/\text{m}^3$
Ground Water Monitoring Results	
pH	pH varies from 6.78 to 7.51 during study period.
Total hardness	Total hardness varies from 123 mg/l to 169 mg/l during study period.
Total dissolved solids	Total dissolved solids vary from 269 mg/l to 360 mg/l during study period.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



Surface Water Monitoring Results

pH	The analysis results indicate that the pH ranges between 7.25 to 7.62.
Dissolved Oxygen	Dissolved Oxygen (DO) was observed in the range of 5.4 to 7.4 mg/l against the minimum requirement of 4 mg/l.
BOD	BOD values were observed to be in the range of 8.0 – 15.3 mg/l.

Soil Quality Monitoring Results

pH	pH value ranging from 6.78 to 7.81.
Potassium	Potassium is found to be from 72.20 mg/kg to 259.0 mg/kg.
Water holding capacity	The water holding capacity is found in between 26.2 % to 35.80 %.

Noise Quality Monitoring Results

Day time	The minimum & maximum noise levels at day time were recorded as 50.8 Leq. dB (A) & 59.6 dB (A).
Night time	The minimum & maximum noise levels at night time were found to be 37.9 dB (A) & 44.0 dB (A).

5. **Greenbelt development:** 6632 Plants are proposed to be planted for the proposed cluster.

Table: Plantation for proposed quarries(ppt)

S. No.	Quarry	No. of Plants in Safety zone, along approach road and at other places in village after consulting local authorities
1	Uppalada Stone Quarry - I	490
2	Uppalada Stone Quarry - IV	495
3	Uppalada Stone Quarry - VIII	590
4	Uppalada Stone Quarry - IX	475
Total		2050

6. **Manpower:** 55 nos of persons are required for the manpower of the proposed project.

7. **Project cost:** The estimated project cost for the Cluster is 260 lakhs. Budget for environmental protection includes capital cost of Rs. 26,97,000 and recurring cost includes Rs. 27,41,000 for cluster.

Table: BUDGET FOR ENVIRONMENTAL PROTECTION (Cluster)

S. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1	Pollution Control Dust Suppression /Water Sprinkling	—	14,00,000
2	Garland Drain and Settling Tank	7,00,000	3,50,000
3	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	—	50,000 40,000 10,000 10,000
4	Green belt development	7,97,000	3,50,000



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

Total	Maintenance of approach road	12,00,000	5,31,000
		26,97,000	27,41,000

Table: CER BUDGET IN CLUSTER

S. No.	Activity	Capital Cost (in Rs.)/annum
i)	Financial aid for Medical Facilities in village Uppalada.	3,50,000
ii)	Installation of 2 Solar Lights in Schools of Uppalada Village.	40,000
iii)	Skill development Program Camps like computer learning, sewing etc. in village Uppalada.	1,50,000
iv)	Construction of Separate Toilet for Boys & Girls at Schools in village Uppalada.	2,00,000
TOTAL		7,40,000

8. **Environment Consultant:** The Environment consultant M/s P & M Solution, Noida along with the proponent made a presentation on the proposal before the Committee.
9. The SEAC in its meeting dated 22-09-2023 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
	Communication letter from the Tahasildar that the other quarries were not identified earlier.	As per our record all the quarries were identified on dated 27.03.2012 and granted lease on short-term basis till 25.04.2015. After that the sources are granted lease on long-term basis (i.e., for 5 years) following the action process as per Odisha minor mineral act.	-
	Chronological record of each quarry in the Cluster duly certified by Tahasildar.	Chronological data of each quarry present in the cluster has submitted by Tahasildar, Paralakhemundi for your reference as Annexure-I.	Copy submitted
	Clarification on distance of the project site from the nearest habitation from the Tahasildar. Further submit a detailed report for relocation of the local habitation or an action plan to make the nearby areas free from encroachments.	The distance certified from the project site to the nearest habitation has been submitted for your reference as Annexure-II.	Distance of nearest habitation is 100 meter and PP has left another 100 meter as no mining zone. Now, total comes to be 200 meters to fulfill the minimum distance.

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024



		guideline of NGT
	Submit Standard Operating Procedures (SOP) for Flying rocks and elaborate how controlled blasting will be adopted for management for flying rocks.	Standard Operation Procedure (SOP) for flying rocks and control blasting management has been submitted for your reference as Annexure-III . Copy submitted
	Provide a complete note on total mineral available, complete mineralization zone. Further in between the lease areas, find out the availability of mineralization. Thereafter prepare a plan so as proper mineral conservation can be done.	Total mineral reserve and its conservation management plan have been submitted for your reference as Annexure-IV . Copy submitted
	Already Environmental Clearance (EC) granted to earlier 3 quarries i.e. quarry no. II, III & V and are under operation. How EC has been granted when 4 other mines (i.e. quarry no. I, IV, VII & IX) are in cluster.	The EC of Uppalada Stone Quarry - I & VIII has not obtained earlier. Both the quarries are new mines and not operated yet. On dated 01.12.2016 only Uppalada Stone Quarry-IV has obtained EC from DEIAA, Gajapati and on dated 11.01.2016 Uppalada Stone Quarry-IX has obtained EC from SEIAA, Odisha. At that time period for Uppalada Stone Quarry - II, III & IX, EC have been granted by SEIAA, Odisha and Uppalada Stone Quarry - IV & V are granted by DEIAA, Gajapati. In this context there may be a little confusion by our previous officials regarding the cluster approach of the proposals due to which cluster approach has not followed.
	Copy of Environmental Clearance of quarry no. II, III & V.	EC copy of Uppalada Stone Quarry - II, III & V has been submitted for your reference as Annexure-V . Copies submitted
	Consultant has not visited the site and they need to visit the site and incorporate the same in the modified EMP if any.	The site has been visited by the field executive of the consultancy and there is no requirement of modified EMP. -
	Habitation is 100 meter away from the mining site. So, the mining	As the habitation is 100 meter away from mining site the plan of revised

Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

<p>activity should be restricted to the minimum distance from the habitation area as per order of the Hon'ble NGT.</p>	<p>mining activity has submitted for your reference as Annexure-II.</p>	
<p>Who has taken responsibility to apply for cluster approach and copy of consent letter of other lessees to be submitted.</p>	<p>The ToR of Uppalada Stone Quarry - I, IV, VIII & IX has been granted by SEIAA, Odisha on dated 02.09.2022 in favor of the successful bidders as applied before. We had completed the public hearing for all 7 quarries of 39.811 Ha. area. But, EC have been applied for the Uppalada Stone Quarry - I, IV, VIII & IX. After the recommendation of the Hon'ble committee of SEAC, Odisha we have applied again for the total cluster proposal of all 7 quarries in favor of Tahasildar, Paralakhemundi. He will be the sole authority on behalf of the successful bidders of the quarries. The consent letter of Tahasilda, Paralakhemundi has been submitted as Annexure-VI.</p>	
<p>Project proponent to provide RLs of ground water in the ML area during summer and rainy seasons along with RI of the surfaces surrounding the ML area.</p>	<p>RLs of ground water and surface water in the ML area during summer and rainy seasons have been attached for your reference as Annexure-VII.</p>	

Considering the information / documents furnished by the proponent and presentation made by the consultant M/s P & M Solution, Noida, on behalf of the proponent

2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 28.1.2023 and the SEAC approved the EIA/EMP report in cluster approach and recommended the following:
 - a) The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease for **Uppalada Stone Quarry - I, IV, VIII, IX (under cluster approach of Uppalada Stone Quarry - I, II, III, IV, V, VIII, IX)** without referring to SEAC with specific conditions as per **Annexure-D** after receipt of individual applications from the lessee in cluster along with following documents:
 - i) Filled-in form-I of individual lease;
 - ii) Prefeasibility report of individual lease;
 - iii) EMP of individual lease;
 - iv) Approved Mining Plan of individual lease;
 - v) Report on vibration study.



Minutes of 155th Meeting of SEIAA, Odisha held on 09.02.2024

- vi) DFO's status of the lease area from concerned DFO as certified by the concerned Tahasildar.
 - vii) Undertaking by the lessee not to use wagon drilling blasting to be submitted. Accordingly, specific condition to be stipulated in EC of individual lease.
 - viii) No storage and usage of blasting materials/explosives inside the lease area without license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983 shall be ensured by the lessee. An undertaking to this effect shall be submitted by the lessee. Accordingly, specific condition to be stipulated in EC of individual lease.
 - ix) An undertaking to obtain NOC from CGWA and permission from WR department, Govt. Of Odisha for use of ground water. Accordingly, specific condition to be stipulated in EC of individual lease.
 - x) The project proponent shall 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.
 - xi) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for fodder, flora, fauna etc. after ceasing mining operation that is at the time of mine closure.
 - xii) A condition on SOP for blasting and safety on management of flying rock to be implemented and detail risk and hazard management procedure shall be followed by the lessee as per the Annexure - E.
- Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.

Decision of Authority: Approved

After detailed deliberation on the matter, the authority accepted the recommendation of SEAC and approved the cluster EIA&EMP report with a capital cost of Rs.27,41,000/- and recurring cost Rs.26,97,000/- per annum. The individual EC application in cluster will be considered after submission of documents as recommended by SEAC.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA