

**Minutes of 164<sup>th</sup> Meeting of SEIAA, Odisha held on 23.04.2024 & 25.04.2024**

**PARIVESH 1.0, AGENDA No.164.03**

Proposal No.	SIA/OR/INFRA2/403552/2022
Date of application	06.01.2023
File no.	403552/103-INFRA2/01-2023
Project Type	New proposal for EC
Category	B2
Project/Activity including Schedule No.	8(a) Building & Construction Project
Name of the Project	Proposal for EC of M/s. DNT Infrastructures Private Limited to develop a 2B+G+19 Storied Residential Apartment Building over a built-up area of 42367.32 sqm located at plot no. 817/ 3417, Khata no.-890/99, in Mouza - Sundarpur, Khordha, Bhubaneshwar of Sri Nikunja Kishore Das
Name of the company/Organization	M/s. DNT Infrastructures Pvt. Ltd. Sri Nikunja Kishore Das
Location of Project	Mouza - Sundarpur, Khordha, Bhubaneshwar
ToR Date	NA
Name of the Consultant	M/s. P and M Solution., Noida, 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. This proposal is for environmental clearance of M/s. DNT Infrastructures Private Limited to develop a 2B+G+19 Storied Residential Apartment Building over a built-up area of 42367.32 sqm located at plot no. 817/ 3417, Khata no.-890/99, in Mouza - Sundarpur, Khordha, Bhubaneshwar of Sri Nikunja Kishore Das.
2. **Category:** The project requires prior Environmental Clearance under the provisions of EIA Notification, 2006 and subsequent amendment and falls under Category B of activity 8(a)-Building & Construction projects.
3. **Location and connectivity:** Project site is located at Plot no. 817/3417, Khata no.- 890/99, in Mouza - Sundarpur, Khordha, Bhubaneshwar, Orissa. The Geographical coordinates of the project site are 20°21'12.7"N and 85°46'17.4"E and fall within Toposheet no. 73H/15. Site is flat land with average elevation of 39.92 m AMSL. Project site is well connected with road and it also connects Khandagiri-Chandaka road at a distance of 0.41 km, towards W. Site connects to NH-16 which is 8.36 km towards South direction. Site connects to SH 60 at 12.88 km in E direction. Bhubaneshwar new junction railway station is 7.34 km away in NE direction. Biju Patnaik International Airport is at 12.19 km in S.
4. **Area Details:** The total plot area of the project site is 6029.76 sqm (0.602 ha./1.49 acres). Project involves development of 152 nos. of residential apartments. Built-up area of project after development will be approx. 42367.32 sqm.

**Table: Area Summary**

Sl. No.	Description	Total (SQ M)
1.	Plot Area	6029.76
2.	Proposed Ground Coverage (26.99 % of total plot area)	1627.61
3.	FAR area (@5.31)	31935.44
4.	NON FAR area	10431.88
5.	Built-up Area	42367.32
6.	Green Area (33 % of plot area)	1945.64
7.	Open Parking area (@ 4.50 % of plot Area)	271.87

8.	Open/Amenities (52.97 % of the plot area)	3225.82
9.	Height	62.80
10.	No. of Dwelling Units	152

5. **Water requirement: Revised Water Balance has been submitted in ADS** - Total water requirement is **84 KLD**, out of which domestic water requirement is **71 KLD (Freshwater requirement - 50 KLD + Recycled Water - 21 KLD)**. Wastewater generation – 61KLD treated in STP of capacity 100 KLD. Treated water from the STP – 55 KLD will be used for flushing (21 KLD), fire fighting (1 KLD), DG cooling (4 KLD) and horticulture purpose (8 KLD) and discharge to drain – 21 KLD (Non monsoon period) and 29 KLD (Monsoon period).
6. **Previous Water Balance submitted in EIA & Presentation** - Total water requirement during operation phase is 103 KLD out of which domestic water requirement is 95 and freshwater requirement is 65 KLD. Source of water during operation phase will be ground water.

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement(KLD)
<b>Domestic</b>					
Residents	684	135	92	64	28
Staff	34	45	2	0.6	1.4
Visitors	68	15	1	0.7	0.3
<b>Total Domestic Water Demand</b>			<b>95</b>	<b>65</b>	<b>30</b>
Landscape	1945.64 sq.m	3 ltr/sqm	3	-	3
Fire Fighting	-	-	1	-	1
DG cooling	500 KVA (1*500)	0.9 l/kVA/hr	4	-	4
<b>Total</b>		-	<b>103</b>	<b>65</b>	<b>38</b>

7. **Wastewater generation:** Sewage generation from the site is expected to be 89 KLD which will be treated in STP of capacity 100 KLD proposed to be constructed at the site. Treated water from the STP will be used for flushing, fire fighting, DG cooling and horticulture purpose.
8. **Rainwater harvesting:** Storm water drainage system will be provided at the site for channelizing storm water and prevents local flooding. Covered storm water drains will be provided at the site. Run-off from the site will be collected and recharged into ground through 18 nos. of RWH pits for harvesting 112320 liters.
9. **Parking detail:** Total Parking area is 10040.05 sq.m. Adequate parking will be provided to accommodate the expected vehicles during operation phase of the project in line with the requirement of Local Building by Laws.
10. **Power requirement:** Maximum power demand for the project during operation phase is estimated to be 1500 kVA. Source of power will be TPCODL. DG sets of Total 500 KVA will be provided as power back-up during power failure. The height of the DG Stacks will be 6 meter above building height. Provision of Solar power for lighting and water heating is there.
11. **Solid waste generation:** During operation phase, waste comprise of municipal waste. It is estimated that approx. 370 kg per day of waste (0.5 kg per capita per day for the residents, 0.15 kg per capita per day for

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the visitor. 0.25 kg per capita per day for the staff members, whereas 0.2 kg/acre/day is considered for (landscape waste) to be generated from project site. STP sludge expected to generate is approx. 8 kg/day.

S. No.	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable(kg/day)
a)	Residents	684	0.5	342	274	68
b)	Staff	34	0.25	9	7.2	1.8
c)	Visitors	68	0.15	10	8	2
d)	Landscape waste	0.22 acres	0.2 kg/acres	1	1	-
e)	<b>Domestic Municipal waste generated</b>			<b>362</b>	<b>290</b>	<b>72</b>
f)	<b>STP sludge</b>	100 KLD	--	8	6	2
<b>Total Waste Generated</b>				<b>370</b>	<b>296</b>	<b>74</b>

12. **Greenbelt: Revised Greenbelt as submitted in ADS - Total Plot Area-6010.52 sq.mt. Provided Greenbelt-1262.20 sq.mt (21% of total plot area).**

13. **Previous Greenbelt submitted in EIA & Presentation** Green area will be provided in total area of 1945.64 sq m (33 % of plot area) which will enhance the beauty of the site and help combat air and noise pollution. The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000. Number of trees required is 1 tree/80 sq.m. of plot area which comes to 75 nos.

14. **Project Cost:** Total cost of the project is INR 99 Crores. EMP cost includes capital cost of 42 lakhs and recurring cost of 19 lakhs.

15. **Environment Consultant:** The Environment consultant M/s P and M Solution., Noida, Uttar Pradesh along with the proponent made a presentation on the proposal before the Committee.

16. The SEAC in its meeting held on dated 14.02.2023 recommended the followings;

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

- Certificate from the concerned DFO regarding distance of proposed project from Chandaka Dampara Wildlife Sanctuary and its Eco Sensitive Zone as well as Nandan Kanan Sanctuary and its' Eco Sensitive Zone.
- Revised surface layout w.r.t location of DG set and Stack including calculations of stack height.
- Detailed drainage plan, internal drainage details, drainage permission with supporting documents and NOC for drainage from concerned authority.
- Revised water balance for both monsoon and non-monsoon season.
- Revised solid waste management plan.
- Traffic study report vetted by reputed institute.
- Increase the peripheral greenbelt with minimum of 20% of total plot area.
- Details of renewable energy (Solar Energy) along with its generation, total power consumption, PV cell capacity.

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

- Environmental settings of the project site.
- Construction activity, if any started at the site.
- Road connectivity to the project site.
- Drainage network at the site.

- e) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- f) Any other local issues.

**17. The proposed site was visited by the sub-committee of SEAC on 29.03.2023. Following are the observations of the sub-committee:**

- a) PP was present. No construction initiated at the project and the site is clean.
- b) Road and Drain is available in front of the land at road side.
- c) Permission needs to be obtained from PWD or the appropriate authority to discharge excess treated water. However, PP needs to attempt for ZLD.
- d) No trees planted; thus, green belt development is necessary as per norm.
- e) All documents asked during presentation to be submitted.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	Certificate from the concerned DFO regarding distance of proposed project from Chandaka Dampara Wildlife Sanctuary and its Eco Sensitive Zone as well as Nandan Kanan Sanctuary and its' Eco Sensitive Zone.	DFO certificate is attached as <b>Annexure I.</b>	DFO, Chandaka Wildlife Division certified that Mouza Sundarpur is not coming within Eco-sensitive zone of Chandaka Dampara Wildlife Sanctuary.  Certificate from the concerned DFO, Nandan Kanan Sanctuary and its' Eco Sensitive Zone has not been submitted.
b)	Revised surface layout w.r.t location of DG set and Stack including calculations of stack height.	Surface layout plan showing the DG set location is attached as <b>Annexure II.</b>	Only surface layout is submitted showing location of DG sets. Stack including Calculations of stack height is not submitted.
c)	Detailed drainage plan, internal drainage details, drainage permission with supporting documents and NOC for drainage from concerned authority.	Drainage plan, Internal drainage plan is attached as <b>Annexure III.</b>  Application for NOC is attached as <b>Annexure IV.</b>	Drainage map submitted both in layout and Google map.  Application for NOC for drainage from concerned authority has been submitted by the PP. To be added as specific condition.

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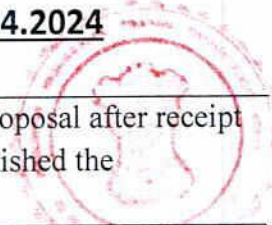
d)	Revised water balance for both monsoon and non-monsoon season.	Revised water balance is attached as <b>Annexure V</b> .	submitted
e)	Revised solid waste management plan.	<p><b>Solid waste management plan.</b></p> <ol style="list-style-type: none"> <li>1. The solid waste will be segregated at source &amp; collected.</li> <li>2. Adequate number of colored bins (green, white &amp; Black) 24 approx. 10no. separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.</li> </ol> <p><b>Type of Waste:</b></p> <ol style="list-style-type: none"> <li>A. Organic waste/ Bio-degradable: (Waste vegetable, food etc.) – will be composted will be used as Manure.</li> <li>B. Inorganic waste/Non-Biodegradable: Metals, plastics, polythene bags, glass etc. – will be disposed to govt. or SPCB approved third party vendors.</li> <li>C. The Hazardous waste generated will be managed as per the Hazardous and other Wastes (Management and Tran’s boundary Movement) Rules, 2016.</li> <li>D. Horticultural Waste is composted and used for gardening purpose.</li> </ol> <p><b>Management plan for Pest Control due to the</b></p>	-



		<p><b>generation of Solid waste:</b></p> <ol style="list-style-type: none"> <li>1. Waste disposal units should be covered and sealed.</li> <li>2. Waste disposal area should be clean and disposal process should be done on the same day to maintain the hygiene and to avoid the collection of pest.</li> <li>3. Install insect traps if required</li> <li>4. Use of physical, chemical and biological methods to control pest.</li> </ol>	
f)	Traffic study report vetted by reputed institute.	Traffic study report vetted by reputed institute is attached as <b>Annexure VI.</b>	Traffic study report vetted by KIIT, BBSR concludes after 10 years, the LOS found to be 'B' with or without project.
g)	Increase the peripheral greenbelt with minimum of 20% of total plot area.	Peripheral greenbelt showing 20% green belt area of total plot area is attached as <b>Annexure VII.</b>	Total Plot Area-6010.52 sq.mt Required Peripheral Greenbelt 20% of total plot area Provided Greenbelt-1262.20 sq.mt (21% of total plot area).
h)	Details of renewable energy (Solar Energy) along with its generation, total power consumption, PV cell capacity.	Required solar roof top system = 500 sq.mt Required Solar Water Heating System = 100 LPD/ single flat Total Provided Solar Water Heating System 15200 LPD/152 flat renewable energy (Solar Energy) plan is attached as <b>Annexure VIII.</b>	Detailed Calculation has not been submitted in terms of percentage of renewable energy contributed to total power demand. However, layout submitted.



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19. The SEAC in its meeting held on dated 19-06-2023 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:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	Certificate from the concerned DFO, Nandan Kanan Sanctuary and its' Eco Sensitive Zone has not been submitted.	We have already submitted the certificate issued from DFO, Chandaka that our zone is not coming within Eco-sensitive Zone of Chandaka – Dampara Wild Life Sanctuary and Nanadankanan Zoo.	The PP has submitted regarding Chandaka – Dampara Wild Life Sanctuary and there is no mention of NOC of DFO from Nandan Kanan Sanctuary.
b)	A calculation of stack height of DG set as asked has not been submitted.	We are submitting the calculation sheet of the Stack height of DG.	Submitted and height is 69meter.
c)	Detailed Calculation has not been submitted in terms of percentage of renewable energy contributed to total power demand.	Detailed calculation of percentage of Renewable Energy contributed to total power demand is attached herewith as an enclosure.	Solar Installation details is not clear.
d)	RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.	-----	Not submitted
e)	Source of water for use during construction phase.	-----	Not submitted

20. 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: 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)	Total Solar power installation in kilowatt and its contribution to total power demand.	Clarification against the same: Dear Sir, detailed calculation of percentage of Renewable Energy contribution to total power demand is attached herewith as an enclosure.	Solar Based Lighting will be done in the common areas, signages, entry gates and boundary walls etc.=73.32kVA
b)	RL of the bottom of the rainwater discharge pit as well as RL of ground	-----	Not submitted



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	water table during rainy and summer season.		
e)	Source of water for use during construction phase.	-----	Not submitted
d)	Certificate from Deputy Director Nandankanan regarding ESZ.	Clarification against the same: Dear Sir, we have already submitted the certificate issued from DFO, Chandaka that our zone is not coming within Eco-Sensitive Zone of Chandaka- Dampara Wild Life Sanctuary and Nandankanan Zoo.	Copy Submitted

21. The SEAC in its meeting held on dated **29-01-2024** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.	RL of the bottom of the rain water harvesting pit is 10m and ground water level pre-monsoon is 2 to 10 mbgl and water level ranges from 0.02 mbgl to 15.1 in mbgl during post monsoon.	complied
2.	Source of water for use during construction phase.	Tanker water will be purchased from outside.	complied

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

2. Whether SEAC recommended the proposal –Yes, the proposal was placed in the SEAC meeting held on 21.03.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – B** in addition to the following specific conditions.

- i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The project will be using 50 KLD ground water during its operational phase. The required permission from the CGWA / appropriate authority shall be obtained.
- iv) The project is under the jurisdiction of BDA. Necessary permission for the discharge of excess treated water along with rainwater from the project site to the public drain shall be obtained.
- v) The proponent shall use solar energy at least to the tune of 5%of total power requirement as proposed.
- vi) The proponent shall obtain permission from concerned Fire Safety Authority.
- vii) Trees located within the project area shall be transplanted to alongside the boundary green development area.





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- viii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- ix) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- x) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

### Decision of Authority: Rejected


The authority noted that the consultant M/s P&M Solution, Noida stands debarred vide SEIAA, Odisha file no. SEIAA-103/12-2023 dated 06<sup>th</sup> April, 2024 for submitting any report /documents to SEIAA, Odisha for obtaining EC in terms of provision of EIA Notification, 2006 for a period of six months i.e. upto 5<sup>th</sup> October, 2024 from the date of issue of the letter.

In view of this, the authority decided that, the PP may await completion of the debarment period of M/s P&M Solution, Noida or submit revised appraisal report (i.e. Form-I, Form-IA, checklist, conceptual plan and other documents related to project) from any other NABET Accredited consultant for consideration of the proposal.

  
Member Secretary, SAIA

APPROVED BY

  
Member, SAIA

  
30.04.24  
Chairman, SAIA

**PARIVESH 1.0, AGENDA No.164.04**

Proposal No.	SIA/OR/MIN/420418/2023
Date of application	25.08.2023
File no.	420418/342-MINB1/09-2023
Project Type	New proposal for EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for approval of cluster EIA & EMP of Derenga & Khajuria Sand Quarries Cluster over an area of 30.00 acres or 12.14 Hectares in village Derenga & Khajuria, Tahasil Kaniha, District Angul, State Odisha submitted under cluster approach with consisting of 2 sand quarries
Name of the company/Organization	Tahasildar, Kaniha
Location of Project	village Derenga & Khajuria, Tahasil Kaniha, District Angul, State Odisha
ToR Date	22.02.2022
Name of the Consultant	M/s. P and M Solution., Noida, 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. This proposal is for Environmental Clearance of Derenga & Khajuria Sand Quarries Cluster over an area of 30.00 acres or 12.14 Hectares in village Derenga & Khajuria, Tahasil Kaniha, District Angul of Tahasildar, Kaniha (submitted under cluster approach with consisting of 2 sand quarries).
2. **Category:** As per EIA Notification, 2006 and its subsequent amendments, the proposed project falls under Category B in Schedule in item 1(a) - Mining of Minerals.
3. Mining Lease has been granted by vide letter no 6008, date 11/12/2020 for Derenga Sand Quarry & Successful Bidder is Shri Kishore Chandra Sahoo, S/o - Gopal Sahoo At - Derang, PO-Derang, PS - Kaniha, Dist - Angul, Odisha. Mining Lease has been granted by vide letter no 6005, date 11/12/2020 for Khajuria Sand Quarry & Successful Bidder is Shri Parama Nanda Sahoo, C/o- Maa Bhaneswari Sand Supplier, At - Derang, PO - Derang, PS - Kaniha, Dist - Angul, Odisha.
4. The mining plan for the proposed quarry lease area has been approved by the Joint Director, Geology Authorized officer, Zonal Survey, Dhenkanal Odisha vide Memo no 686/DZ & 690/DZ dated 02.06.2020.
5. This Derenga sand quarry proposal is shown as an identified source of the particular minor mineral in the DSR of the district. Annexure - I, Page No.- 22 or SI.No.6 of table list of leases with location, area. This Khajuria sand quarry proposal is shown as an identified source of the particular minor mineral in the DSR of the district. Annexure-I, Page No.- 22 or SI.No.7 of table list of leases with location, area.
6. **TOR details :** The Terms Of Reference(TOR) for Derenga Sand Quarry has been granted vide letter No. 4091/SEIAA, Dated 22.02.2022 and for Khajuria Sand Quarry has been granted vide letter No. 4083/SEIAA, Dated 22.02.2022.
7. **Public hearing details:** Public hearing was successfully executed on date 17.09.2022 at Derang Village Playground Infront of Derang G.P Office, Derang village under Kaniha Tahasil of Angul District. Issues raised during the public hearing are water pollution and air pollution, local employment, plantation, transport road maintenance, tarpaulin covering of transportation vehicles.
8. **Location and connectivity:** The mine lease area is located in Village- Derenga & Khajuria, Tehsil-Kaniha, District-Angul, Odisha and is on Khata no- Khata No. 758, Plot No. 8953/10218 (Derenga Sand Quarry) &



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Khata No. 59, Plot No. 1000 (Khajuria Sand Quarry). The cluster is covered in the Survey of India Topo Sheet No – 73G/4 and is bounded between the 21°07'47.80"N to 21°08'03.14"N and 85°01'28.72"E to 85°01'51.41"E. Kismat of land is Nadi. The mine site is well connected by approach road of approx. 1.1 km (0.5 km & 0.6 km). This road further connects to Rengali dam-Kaniha road in East direction at a distance of approx. 1.0 km from ML area. The Nearest highway is NH- 53 at approx. 0.98 km in SE direction. Biju Patnaik International Airport is approx. 125.19 km towards SE direction. The Nearest river embankment is near Takua road bridge over Tikira River at approx. 2.5 km in SE.

9. **Reserves and production:** Total Geological reserves is estimated to be 4, 58,416 cum & Total minable reserves is estimated to be 2, 10,876 cum. The average production is 42,175 cum/annum (Khajuria Sand Quarry -18,701 cum/annum and Deranga Sand Quarry-23,474 cum/annum) for a period of Concession of 5 years.
10. **Baseline study details:** Baseline Study was conducted during March, 2022 to May, 2022. Following observations are made:

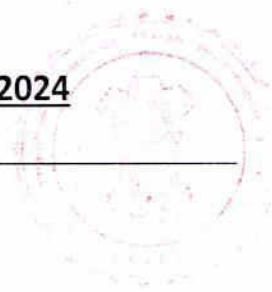
Air Quality monitoring results	
PM 10	35.2µg/m <sup>3</sup> to 85.2µg/m <sup>3</sup> .
PM 2.5	14.10µg/m <sup>3</sup> to 34.5µg/m <sup>3</sup> .
SO <sub>2</sub>	5.40µg/m <sup>3</sup> to 12.80µg/m <sup>3</sup> .
NO <sub>x</sub>	7.20µg/m <sup>3</sup> to 24.20µg/m <sup>3</sup> .

Ground Water monitoring results	
pH	pH varies from 6.98 to 7.72 during study period.
Total hardness	Total hardness varies from 164.0 mg/l to 236 mg/l at during study period.
Total dissolved solids	Total dissolved solids vary from 347 mg/l to 521 mg/l during study period.

Surface Water monitoring results	
pH	The analysis results indicate that the pH ranges between 6.98 and 7.08.
Dissolved Oxygen	Dissolved Oxygen (DO) was observed in the range of 7.1 to 7.4 mg/l.
BOD	BOD values were observed to be in the range of 2.2 – 2.8 mg/l.
Soil Quality monitoring results	
pH	pH value ranging from 6.29 to 7.16.
Potassium	Potassium is found to be from 162.0 mg/kg to 212 mg/kg.
Noise Quality monitoring results	
Day time	The minimum & maximum noise levels at day time were recorded as 52.4 Leq. dB (A) & 49.1 dB (A).
Night time	The minimum & maximum noise levels at night time were found to be 43.1 dB (A) & 39.4 dB (A).

11. **Mining method:** Mining will be done by Manual method only. The average production is 42,175 cu.m/annum (Khajuria Sand Quarry -18,701 cu.m/annum and Deranga Sand Quarry-23,474 cum/annum) for a period of Concession of 5 years. Proposed Mining Depth is 2 m.

Year	Deranga Quarry	Sand	Khajuria Sand Quarry (cum)



	(cum)	
1 <sup>st</sup>	23,474	18,701
2 <sup>nd</sup>	23,474	18,701
3 <sup>rd</sup>	23,474	18,701
4 <sup>th</sup>	23,474	18,701
5 <sup>th</sup>	23,474	18,701
<b>Total</b>	<b>1,17,370</b>	<b>93,505</b>

12. **Water requirement:** Total Water Requirement for the proposed project is 9.47 KLD for proposed project.

Activity	Calculation	Round off Figure in KLD
Drinking	@ 10 lpcd per labor $10 \times 45 / 1000 = 0.45$ KLD	0.45
Dust Suppression	<b>Total approach road to be water sprinkled = 1100 m</b> $1100 \text{ m} \times 6 \text{ m} \times 0.5 \times 2 \text{ times} / 1000 = 6.60$ KLD	6.60
Plantation	1214 plant (during plan period) @ 2 L/per plant = $1214 \times 2 \text{ lts} = 2428 / 1000 = 2.42$ KLD	2.42
<b>Total</b>		<b>9.47</b>

13. **Greenbelt development:** Total 1214 plants for proposed project to be planted during the lease period.

Year	No of plants along both side of approach road	No. of plants in buffer zone consulting local authorities	Location	Species
1 <sup>st</sup>	607	607	Approach road –607nos. – along both sides 1100m of approach road at spacing of 2 m. Village area – 607 nos. In village area like school premises, Aangawadi, Panchayat bhavan	Guava, mango, Jamun, jhaun, neem etc
2 <sup>nd</sup>	Maintenance			
3 <sup>rd</sup>				
4 <sup>th</sup>				
5 <sup>th</sup>				
<b>Total</b>	<b>607</b>	<b>607</b>		
<b>Total</b>	<b>1214</b>			

14. **Manpower requirement:** Total nos of persons required as manpower for the proposed project is 45 (Cluster).

15. **Project cost:** The estimated cost of the proposed project is Rs. 2 Crores. EMP Cost includes the Capital cost of Rs. 10.00 Lakhs and Recurring cost of Rs. 6.00 Lakhs.

**Table: Budget allocated for Environmental Management Plan (For Cluster)**

Sl. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)

**Minutes of 164<sup>th</sup> Meeting of SEIAA, Odisha held on 23.04.2024 & 25.04.2024**

i)	Pollution Control Dust Suppression /Water Sprinkling	1,92,200	50,000
ii)	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	1,00,000 80,000 40,000 20,000
iii)	Financial aid for Medical Camp in Derenga & Khjauria village.	90,000	30,000
iv)	Provision of Sanitation and Toilets in nearby schools.	1,00,000	50,000
v)	Provision of Water Facility and Installation of RO in Derenga & Khjauria village and nearby schools.	1,00,000	30,000
vi)	Green belt development	2,42,800	1,00,000
vii)	Maintenance of haul road	2,75,000	1,20,000
<b>Total</b>		<b>10,00,000</b>	<b>6,00,000</b>

**Table: CER Budget for cluster**

S. No.	Activity	Capital Cost (in Rs.)/annum
i)	Financial aid for medical camp in Derenga & Khjauria village.	90,000
ii)	Skill development program camps like computer learning, sewing etc. in Derenga & Khjauria village.	1,10,000
iii)	Provision of Sanitation and Toilets in nearby schools.	1,00,000
iv)	Provision of Water Facility and Installation of RO in Derenga village and nearby schools.	1,00,000
<b>TOTAL</b>		<b>4,00,000</b>

16. **Environment Consultant:** The Environment consultant M/s P & M Solution, Noida along with the proponent made a presentation on the proposal before the Committee on 22.09.2023.

17. The SEAC in its meeting held on 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
i)	The project proponent shall address the voids caused in the project site due to the previous mining (as per Public Hearing report). An action plan must be made so that mining activities will create no such voids further. The project proponent also to provide details of RL pre and post mining as per the approved mining plan along with RLs of	The Form - F (Intimation to Successful Bidder) was issued on 11-12-2020 & the Mining Plan was approved on 02-06-2020. From 2020 to 2023 there was no mining operation that was being done. There are safety measures which will be followed during mining. Safety Measures considered during Mining: <ul style="list-style-type: none"> <li>The sand will be excavated by open cast manual method. Since the depth of mining is 2.0 m, excavator, handpicks, spade, hand shovel will</li> </ul>	complied

ground water table in the ML area in the summer and rainy seasons.

- be used by laborers for extracting & loading of sand.
- Dry pit mining will be followed i.e mining at all times will be above flowing river bed water level with no mining when water is above bed level.
  - The mineral extraction will be done for a period of 200 days in a year only in non monsoon season.
  - Mineral Sand from this area will be restricted to a maximum depth of 2.0 m from the existing bed level. This is for safety and sustainability.
  - Area of mining lease will be demarcated prior to mining and pucca pillars will be erected on ground which will be enable systematic mining.
  - Mining activities will be carried out only in dry bed. No in stream mining will be practiced. Identification of river starches for mining will be completed.
  - As the mining area is quite large and long in length, systematic extraction will be carried out to prevent seasonal scouring and enhanced erosion.
  - Extraction will be carried out in a manner that there is no obstruction to flow of water if any, during rainy season.
  - There is no generation of overburden waste material in case of river bed mining.

The RL of the pre and post mining as per the approved mining plan along with RLs of ground water table in the ML area in the summer and rainy seasons is discussed below:

**Deranga Sand Quarry** – The present level of the lease area is 84 mRL. During plan period only one quarry will be developed and at the end of plan period the lowest level of the Quarry floor will be 82 mRL.

The ground water table varies between 4m to 14m from the surface level. During the



		<p>summer season water table fails at 14m from the surface level whereas during the rainy season the water table remains at 4m from surface.</p> <p><b>Khajuria Sand Quarry</b> – The present level of the lease area is 86 mRL. During plan period only one quarry will be developed and at the end of plan period the lowest level of the Quarry floor will be 84 mRL.</p> <p>The ground water table varies between 4m to 14m from the surface level. During the summer season water table fails at 14m from the surface level whereas during the rainy season the water table remains at 4m from surface.</p>																	
<p>ii) Clarify the discrepancy between the recurring cost in EIA report and Presentation.</p>		<p>The Recurring Cost given in Presentation is given below:</p> <table border="1" data-bbox="726 896 1316 2018"> <thead> <tr> <th>Sl No.</th> <th>Measures</th> <th>Capital Cost (In Rs.)</th> <th>Recurring Cost (In Rs.)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Pollution Control Dust Suppression /Water Sprinkling</td> <td>1,92,200</td> <td>50,000</td> </tr> <tr> <td>2.</td> <td>Pollution Monitoring I. Air Pollution II. Water Pollution III. Soil Pollution IV. Noise Pollution</td> <td>---</td> <td>1,00,000 80,000 40,000 20,000</td> </tr> <tr> <td>3.</td> <td>Financial aid for Medical Camp in Deranga &amp;</td> <td>90,000</td> <td>30,000</td> </tr> </tbody> </table>	Sl No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)	1.	Pollution Control Dust Suppression /Water Sprinkling	1,92,200	50,000	2.	Pollution Monitoring I. Air Pollution II. Water Pollution III. Soil Pollution IV. Noise Pollution	---	1,00,000 80,000 40,000 20,000	3.	Financial aid for Medical Camp in Deranga &	90,000	30,000	<p>complied</p>
Sl No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)																
1.	Pollution Control Dust Suppression /Water Sprinkling	1,92,200	50,000																
2.	Pollution Monitoring I. Air Pollution II. Water Pollution III. Soil Pollution IV. Noise Pollution	---	1,00,000 80,000 40,000 20,000																
3.	Financial aid for Medical Camp in Deranga &	90,000	30,000																



	Khjauria village.		
4.	Provision of Sanitation and Toilets in nearby schools.	1,00,000	50,000
5.	Provision of Water Facility and Installation of RO in Derenga & Khjauria village and nearby schools	1,00,000	30,000
6.	Green belt development	2,42,800	1,00,000
7.	Maintenance of haul road	2,75,000	1,20,000
<b>Total</b>		<b>10,00,000</b>	<b>6,00,000</b>

The Recurring Cost given in EIA Report is given below:

Sl No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression /Water Sprinkling	1,92,200	50,000
2.	Pollution Monitoring V. Air Pollution VI. Water Pollution	---	1,00,000 80,000 40,000 20,000





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		VII. Soil Pollution III. Noise Pollution			
	3.	Financial aid for Medical Camp in Deranga & Khjauria village.	90,000	30,000	
	4.	Provision of Sanitation and Toilets in nearby schools.	1,00,000	50,000	
	5.	Provision of Water Facility and Installation of RO in Deranga & Khjauria village and nearby schools	1,00,000	30,000	
	6.	Green belt development	2,42,800	1,00,000	
	7.	Maintenance of haul road	2,75,000	1,20,000	
		<b>Total</b>	<b>10,00,000</b>	<b>6,00,000</b>	
		The difference is coming in the values of soil pollution of whose correct values are 20,000. It is a typological error which has been done by mistake and will not be repeated in future.			
iii)	Previous EC compliance report.	The compliance report is attached.			complied

18. The SEAC observed the following:

- i) The mining plan was approved on 02nd June 2020 vide office Memo No.686 and is valid for five years. The approved mining plan does not mention the RLs of the surface of the river water and those of the riverbanks. The mineable area mentioned is 48904 m<sup>2</sup>.
- ii) Replenishment study has been done based on pre and post monsoon surveys carried out in March and December 2022 respectively. As per the information available from the submitted replenishment study report, the pre, and post-monsoon surveys were done by using two nos. handheld GPS and total station.  
Derenga sand bed (6.07 Ha): The pre and post monsoon surveys have reported 0.18 m average differences in the mRL based on observations taken on 232 grid points (Spacing of 50 m) on the riverbed sand surfaces of the mining lease area. Mineable area is mentioned to be 33700 m<sup>2</sup> (31.09% less than that mentioned in the approved mining plan) and hence the reported replenished volume of sand is 6066 m<sup>3</sup>.  
Khajuria sand bed (6.07 Ha): The pre and post monsoon surveys have reported 0.25 m average differences in the mRL based on observations taken on 274 grid points (Spacing of 50 m) on the riverbed sand surfaces of the mining lease area. The mineable area is mentioned to be 38000 m<sup>2</sup> (2.5% less than that mentioned in the approved mining plan) and is in good agreement with the same. The reported replenished volume of sand is 9500 m<sup>3</sup> as per surface area method.
- iii) For Derenga sand bed only the mineable area reported in the replenishment study report needs to be reconciled with that mentioned in the approved mining plan.
- iv) The replenishment study conducted in 2022 is ok for both Derenga and Khajuria mines.

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

2. Whether SEAC recommended the proposal –Yes, the proposal was placed in the SEAC meeting held on 21.03.2024 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 **Derenga & Khajuria Sand Quarries Cluster** without referring to SEAC with stipulated conditions as per **Annexure – C** 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) Previous production details of individual lease duly certified by Tahasildar.
    - vi) Replenishment Study Report of individual lease.
  - b) Following specific conditions may be stipulated in individual Environmental Clearance.
    - i) Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
    - ii) Sand extraction shall be limited to quantity and depth as per replenishment study report. Regular replenishment study as per guidelines to be conducted and report to be submitted.
    - iii) Provision of Bio-toilet shall be made at the site.
    - iv) Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
    - v) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made

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**Decision of Authority: Rejected**

The authority noted that the consultant M/s P&M Solution, Noida stands debarred vide SEIAA, Odisha file no. SEIAA-103/12-2023 dated 06<sup>th</sup> April, 2024 for submitting any report /documents to SEIAA, Odisha for obtaining EC in terms of provision of EIA Notification, 2006 for a period of six months i.e. upto 5<sup>th</sup> October, 2024 from the date of issue of the letter.

In view of this, the authority decided that, the PP may await completion of the debarment period of M/s P&M Solution, Noida or submit revised appraisal report (i.e. Form-2, Final EIA&EMP report and other documents related to project) from any other NABET Accredited consultant for consideration of the proposal.

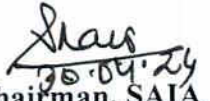


**Member Secretary, SAIA**

**APPROVED BY**



**Member, SAIA**



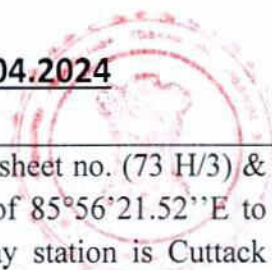
**Chairman, SAIA**

**PARIVESH 1.0, AGENDA No.164.05**

Proposal No.	SIA/OR/MIN/54658/2020
Date of application	13.02.2023
File no.	54658/314-MINB1/02-2023
Project Type	New proposal for EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for EC of Kathajodi river sand quarry, Bagulapada mines on river Kathajodi over an area of 5.26 ha. /13.00 Acre in village Bagulapada under Sadar Cuttack Tahasil of Cuttack district of Sri Rajendra Prasad Singh
Name of the company/Organization	Sri Rajendra Singh
Location of Project	village Bagulapada under Sadar Cuttack Tahasil of Cuttack
ToR Date	19.11.2020
Name of the 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.

1. This proposal is for environmental clearance for Kathajodi river sand quarry, Bagulapada mines on river Kathajodi over an area of 5.26 ha. /13.00 Acre in village Bagulapada under Sadar Cuttack Tahasil of Cuttack district of Sri Rajendra Prasad Singh.
2. **Category:** As per the EIA Notification, 2006 and its subsequent amendments, this project falls in category B under Schedule of activity 1(a) – Mining of Minerals.
3. **Project details:** The proposed mining project is the river bed sand mining on Kathajodi River at village Bagulapada under Sadar Cuttack Tahasil of Cuttack District, Odisha, over an area of 5.26Ha. or 13.00Acres out of which 3.889 Ha. area will be used for excavation of sand within the plan period and 0.971 Ha. area dedicated for safety zone/plantation purpose. Earlier the mining was carried out in the lease area and obtained environment clearance from SEIAA Odisha vide letter no 3858/SEIAA dated 14.08.2015 for five years. The lease period for the previous lease has been completed and now the lease will be freshly auctioned by Tahasildar, Cuttack sadar after obtaining Environment clearance and thus considered as a new lease after auction.
4. The Quarry lease has been proposed to be granted by the Tahasildar, Sadar Cuttack to the applicant (successful bidder) for minor mineral (River Sand) for five years.
5. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no.3162DG on dated 21.05.2020.
6. The mining lease is an identified sairat source in the DSR Sl. 5 in Annexure I.
7. **TOR details:** The Terms of Reference (ToRs) has been issued by SEAC, Odisha vide Letter No. 9652/SEIA on dated 19.11.2020.
8. **Public hearing details:** Public hearing was conducted on Dtd.05/11/2021 at 11.30 A.M. at Mattagajpur Park, Mattagajpur under Cuttack Sadar Tahasil in Cuttack District, by SPCB, Odisha, Bhubaneswar with assistance of SPCB Regional Office, Cuttack and District Administration, Cuttack Dist., Govt. of Odisha. Issues raised were plantation, water sprinkling provision to control dust pollution, river embankment strengthening and employment. A total of 12.80 lakhs has been earmarked by the proponent for the environment and peripheral development work as per the demand raised during public hearing consultation.



9. **Location and connectivity:** The proposed project is located in survey of India toposheet no. (73 H/3) & bounded between latitude of 20°26'14.38N to 20°26'21.22.15''N and longitudes of 85°56'21.52''E to 85°56'33.57''E bearing Khata No. 25, Plot no-116, Kisam-Nadi. Nearest Railway station is Cuttack Railway station at 5km from the project site. The nearest road is Cuttack Paradeep Road located at 1km. The site is well connected to NH-5 at 5km. Nearest airport is Bhubaneswar airport at 20km from the mining lease area. Water reservoir (Taladanda canal) is 1.5km away from the site. From the site, the nearest road bridge and habitation is 5.5km and 3km away respectively. River embankment is 1.0km away from the site.
10. **Topography:** The land is the government land leased for excavation of river sand. There will be no change in land use pattern after the end of plan period as the land will remain as the part of Kathajodi river bed and the quarry area will be replenished during the rainy season. The sand bed is on the river Kathajodi. The Bagulapada sand bed deposit represents a gentle sloping to almost flat terrain with highest altitude of 21.5 Mrl. The general slope is towards east. There is no human settlement within the area.
11. **Replenishment report:** Replenishment study was conducted for pre & post monsoon period on May 2021 and October 2021. Ground survey by Total Station on 5 numbers of cross sections for pre monsoon and post monsoon and 1 numbers of longitudinal sections. River bed RL at selected points in the dry portions of Kathajodi river was measured during Pre-monsoon period (May 2021) and again during post-monsoon period (October 2021). It was observed that there is an average increase of river bed RL by 0.65m due to sediment deposition during the monsoon. The average width of the river as measured in the lease area is 113m and length is about 270 m. So replenished quantity of sand available in each year within the sand bed is 20000m<sup>3</sup>. The recoverable sand depth in the area is 2.2m and the mining operation will go up to maximum depth of 1.5m.
12. **Reserves and total production:** The total geological resource and mineable reserve for the quarry lease period has been estimated as 151758Cum and 116670 Cum. Similarly, the extractable mineable reserve of river bed sand for the QL period is worked out to be 70002Cum. Total production of sand in the proposed project is 14000cum/annum.

Year	Production of Sand (m <sup>3</sup> )
1 <sup>ST</sup> YEAR	14000
2 <sup>ND</sup> YEAR	14000
3 <sup>RD</sup> YEAR	14000
4 <sup>TH</sup> YEAR	14000
5 <sup>TH</sup> YEAR	14000
<b>Total</b>	<b>70,000</b>

13. **Mining method:** The method of excavation of sand from Bagulapada Sand quarry will be semi-mechanized open cast mining. The mode of the deposits, geomorphology of the area and its hydrological condition are some of the factors that favour the open cast method of mining. In this deposit, the mining is done by dry-pit method i.e., sand will be excavated within the active channel on dry intermittent or ephemeral stream beds. The excavator is used for removal of sand from the pits. The sands are extracted, loaded, and transferred from pits to the users through trucks and tractors. The mining is done on single shift basis. Benching pattern is not feasible in case of sand, as the angle of repose of sand is 35<sup>0</sup>, based on this the Ultimate pit slope Limit has been taken as 35<sup>0</sup>. The maximum depth of mining will be of 3 m or up to water table whichever is less.

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- 14. Water requirement:** For drinking & domestic purpose, water requirement will be 1 KLD, water requirement for green belt development and dust suppression will be 2 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development and dust suppression. So total water requirement for the proposed project is 3 KLD. A 10 KLD water tanker will be hired by the lessee for fulfilling both domestic and non-domestic water requirement for the mining.
- 15. Baseline details:** The baseline information on ambient air quality, water quality, noise levels and soil quality have been generated for the period of October to December 2020.
- a) Water quality:** From the surface water quality results, it can be inferred that all the parameters analysed are under the prescribed limit as per IS 2296:1982 as per class C and the water does not contain any pollutants which would be hazardous for human, animal or crop health. Ground water quality Ph ranges from 6.6 to 7.2. The Ph of the surface water in the study area is almost neutral. Total Dissolved Solids ranges from 96-480 mg/l. This indicates the presence of lower amount of ionic substance in the water. Total Hardness ranges from 54 to 198 mg/l and turbidity ranges from 0.3 to 0.9 mg/l.
  - b) Noise levels:** The study area includes industrial and residential areas. The ambient noise levels were measured in 8 sampling locations. In the project site the daytime noise level is 45.3 Db (A) and the nighttime noise level is 37.6 Db (A). The maximum noise level is 52.1Db (A) during the daytime at Purighat Village and minimum noise level is 32.3 Db (A) during the nighttime at Rajahansa Village.
  - c) Ambient Air Quality:** In the study area, the observed source of particulate matter is material handling and vehicular movement. During the study period, the concentration of PM<sub>10</sub> varies from 50 to 58µg/m<sup>3</sup>; the concentration of PM<sub>2.5</sub> varies from 20.1 to 27.2µg/m<sup>3</sup>. The concentration of SO<sub>2</sub> varies from 5.2-9.3 µg/m<sup>3</sup> and the concentration of Nox within the project site ranges between 11.8-20.5 µg/m<sup>3</sup>.
  - d) Soil quality:** The soil analysis result shows that the Ph of the soil is neutral (Ph 6.7-7.9) range. Bulk density ranges from 1.11 to 1.18g/cc, ToC ranges from 0.64 to 1.60 %, Electrical conductivity ranges from 81 to 277 µs/cm, available phosphorous ranges from 13.2 to 41.3 Kg/Ha, available nitrogen content ranges from 50.2 to 125.5 Kg/Ha and available Potassium content varies from 26.9 to 80.6 Kg/Ha. The soil texture is loamy sand and colour is light brown to brown. Soil analysis result shows that the soil is low in fertility.
- 16. Greenbelt:** It is proposed for planting @100 saplings of suitable species per annum by the lessee in vicinity of the riverbank as avenue plantation which is to be undertaken in consultation with the concerned authority. There is the proposal for development of green belt on both sides of the riverbank. The riverbank plantation will be carried out in the 1<sup>st</sup> year of mining operation.
- 17. Employment generation:** Due to the proposed sand mining, there will be generation of employment for 21 persons. Out of which, 4 nos. are skilled, 06 nos. are semi –skilled and 10 nos. are unskilled and 1 supervisor.
- 18. Project cost:** The total cost estimated for the proposed project is 10 lakhs. Cost towards implementation of Environment Management Plan (EMP) is 4 lakhs per annum.

Sl. No.	Particulars	Cost/ Annum (Rs.)
1.	Environmental Monitoring: Air, Noise 3 Point each and Water 2 points (Twice yearly)	Rs. 1.50Lakhs
2.	Water sprinkling on the haul road	Rs. 1.00 Lakhs
3.	Green belt development in riverbank	Rs. 1.00 Lakhs
4.	Occupational health	Rs. 0.50 Lakhs
Total		Rs. 4.00 Lakhs

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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 10.03.2023.
20. The SEAC in its meeting held on dated 10.03.2023 recommended the following:
- A) The proponent may be asked to submit the followings for further processing of EC application;**
- Previous production figures as per Previous EC duly certified by concerned Tahasildar.
  - Permission/NOC from Irrigation Department for use of the approach road.
  - Traffic Study Report duly vetted by the reputed institution.
  - Number of cross sections taken for Replenishment Study Report with details of erosion and accreditation levels.
- B) The proposed site shall be visited by Sub-Committee of SEAC to verify the followings;**
- Environmental settings of the lease area.
  - Mining activity, if any carried out in the lease area.
  - Sand deposit in lease area as KML file shows no sand deposit.
  - Road connectivity to the lease area.
  - Distance of the road and railway bridge from the boundary of the lease area.
  - Distance of embankment from sand deposit.
  - Any other issues including local issues.
21. The proposed site was visited by Sub-Committee of SEAC on dated 29.04.2023 and following observations were made:
- PP, Consultant and Revenue Supervisor of concerned Tahasil were present.
  - The sand site was not approachable as there was no road and the site could not be shown as there was no demarcation.
  - As per the coordinates shown through GPS at one side, it was observed that the major area was filled with bushes and few area with water bodies, excepting few pockets of sand at far places (not approachable).
  - High tension line was found to be close at one side, however the distance could not be accessed as the side was not approachable.
  - As the current site as proposed is not fit for mining of sand, it was suggested to modify the mining plan limiting to the few sand pockets in the lease area, without disturbing the areas covered with plants, bushes and water bodies. Further, keeping the safety zone the mineable reserve needs to be accessed from the visible sand pockets only. Approach road to be developed for safe transportation of sand. The revised mining plan and proposal as above certified by Tahasildar may be submitted for further action.
  - There was no bridge nearby.
  - General observation:** As sand mining is dynamic in nature, it is suggested that the concerned Tahasildar may physically visit the site before auction.
22. The SEAC in its meeting held on dated 12.07.2023, decided to recommend the proposal after the proponent furnish the following information / documents as pointed out by the Sub-Committee of SEAC in the site visit report dated 29.04.2023 in addition to the information/ documents as sought vide SEAC letter no. 246/SEAC-(Misc)-28, dated: 17.04.2023.
- As the current site as proposed is not fit for mining of sand, it was suggested to modify the mining plan limiting to the few sand pockets in the lease area, without disturbing the areas covered with plants, bushes and water bodies. Further, keeping the safety zone the mineable reserve needs to be accessed from the visible sand pockets only. Approach road to be developed for safe transportation of sand. The revised mining plan and proposal as above certified by Tahasildar may be submitted for further action.



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- b) The sand site was not approachable as there was no road and the site could not be shown as there was no demarcation. This has to be clarified.
- c) As per the coordinates shown through GPS at one side, it was observed that the major area was filled with bushes and few areas with water bodies, excepting few pockets of sand at far places (not approachable). This has to be clarified.
- d) High tension line was found to be close at one side, however the distance could not be accessed as the side was not approachable. Copy of Clearance from concerned authority to be submitted.

23. 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 production figures as per Previous EC duly certified by concerned Tahasildar.	Previous production details certified by Tahasildar attached as <b>Annexure-I</b> .	Copy submitted
2.	Permission/NOC from Irrigation Department for use of the approach road.	NOC from irrigation department for use of the approach road attached as <b>Annexure-2</b> .	Application for NOC from irrigation department has been accepted and has requested the Tahasildar to submit the details of lease holder.
3.	Traffic Study Report duly vetted by the reputed institution.	Traffic study has been carried out by M/s Kalyani Laboratories Private Limited (NABT accredited EIA Consultant) during the baseline study period and attached as <b>Annexure-3</b> .	As per Traffic Study Report the LOS is "B".
4.	Number of cross sections taken for Replenishment Study Report with details of erosion and accreditation levels.	Replenishment study has been carried out by M/s Geo Consultant Private Limited. Details of replenishment study with no. of cross section and accreditation of agency carried out the replenishment study is attached as <b>Annexure-4</b> .	-

**Additional document required as per the subcommittee of SEAC In the site visit report (SEAC Letter No. – 546(05)/SEAC-MISC-28 Dated 01.08.2023**

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	As the current site as proposed is not fit for mining of sand, it was suggested to modify the mining plan limiting to the few sand pockets in the lease area, without disturbing the	The Mining Plan has been revised and approved as per the requirement and certified by the Tahasildar. Revised Mining plan is attached as <b>Annexure – 5</b> .	Copy submitted



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	areas covered with plants, bushes and water bodies. Further, keeping the safety zone the mineable reserve needs to be accessed from the visible sand pockets only. Approach road to be developed for safe transportation of sand. The revised mining plan and proposal as above certified by Tahasildar may be submitted for further action.		
2.	The sand site was not approachable as there was no road and the site could not be shown as there was no demarcation. This has to be clarified.	The revised mining plan has been prepared and road demarcated in the mining plans submitted with the revised mining plan.	-
3.	As per the coordinates shown through GPS at one side, it was observed that the major area was filled with bushes and few areas with water bodies, excepting few pockets of sand at far places (not approachable). This has to be clarified.	Based on the suggestions the mining plan has revised based on availability of sand.	-
4.	High tension line was found to be close at one side, however the distance could not be accessed as the side was not approachable. Copy of Clearance from concerned authority to be submitted.	The HT line is outside the lease area. NOC has been obtained from JE, TPCODL is attached as <b>Annexure - 6</b> .	Copy submitted

**24. The SEAC observed the following:**

- a) Annexure-4 of the submitted ADS states a table containing 07 nos. cross sections considered at 50 m interval on riverbed sand surface of the mining lease area as per the replenishment study report. The reported accretions or these 07 points are in the range of 0.29 to 0.54 m. Hence the average increase of 0.65 m in the level of riverbed sand owing to deposit of sediments during monsoon as stated above.
- b) The reported area of riverbed sand works out to 30,510 m<sup>2</sup> (113m X 270m), which is 2.774 times more than that mentioned in the approved mining plan (11000 m<sup>2</sup> mineable area). The approved mining plan is presented in Annexure-5 of the submitted ADS. The mineable area stated in the replenishment study report also needs to be compared and reconciled with above.

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

Whether SEAC recommended the proposal –Yes, the proposal was placed in the SEAC meeting held on 21.03.2024 and the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – C** and following specific conditions:

- a) Amended EIA Notification dated 25<sup>th</sup> July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
- b) In absence of proper Replenishment Study Report, the SEAC recommended sand for 1st year to a

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capacity of 60% of annual production capacity as approved in the mining plan.

- c) Provision of Bio-toilet shall be made at the site.
- d) Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
- e) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
- f) No natural water course shall be obstructed or diverted for the purpose of sand mining.
- g) As per Sand Sustainable Guidelines, 2020, the proponent shall ensure that no mining should be allowed below water level.

**Decision Of Authority: Approved**

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

- Maximum depth of mining 3.0 meter and maximum quantity of extraction shall be limited to **8400 in the 1<sup>st</sup> year and 2100 cum in the 2<sup>nd</sup> year** from the date of issue of EC on adhoc manner in absence of ARRS study.
- The PP shall carryout the ARRS study through an NABET or ORSAC empanelled agency and submit to SEIAA, Odisha by 31.03.2026.
- 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 Vrs. Pawan Kumar and Others).
- The Project Proponent (lease holder) shall deposit Rs.2,50,000/-, with the respective District Environment Society for raising 500 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of Rs. 4.0 Lakh / annum (Recurring Cost) and CER cost of Rs.12.80 Lakhs.

Member Secretary, SEIAA

APPROVED BY

Member, SEIAA

Chairman, SEIAA