

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 02ND JUNE, 2022**

The SEAC met on 02nd June, 2022 through video conferencing in Google Meet under the Chairmanship of Sri. B.P. Singh. The following members were present in the meeting.

1. Sri. B. P. Singh	-	Chairman
2. Dr. K. Murugesan	-	Secretary
3. Dr. D. Swain	-	Member
4. Prof. (Dr.) P.K. Mohanty	-	Member
5. Prof. (Dr.) H.B. Sahu	-	Member
6. Sri. J. K. Mahapatra	-	Member
7. Sri. K. R. Acharya	-	Member
8. Prof. (Dr.) B.K. Satpathy	-	Member
9. Dr. K.C.S Panigrahi	-	Member
10. Dr. Sailabala Padhi	-	Member

CONSIDERATION OF OLD PROPOSALS (COMPLIANCE RECEIVED):

The compliances furnished by the proponents were verified by the members through e-mail and also proceedings of the meeting were confirmed by the members through e-mail. The decision of the committee on case-to-case basis as follows:

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S ALL ODISHA STATE BANK OFFICERS HOUSING CO-OPERATIVE SOCIETY LTD FOR PROPOSED CONSTRUCTION OF HOUSING PROJECT OF (LB+UB+S+14) AND (LB+UB+S+20) RESIDENTIAL APARTMENT “GRACE” OVER AN AREA OF AREA OF 1.409 HA/3.48 ACRES AT: MOUZA SUBUDHIPUR, & SANKARPUR, BHUBANESWAR, DIST – KHURDA WITH TOTAL BUILT UP AREA- 74268.84 SQM OF SRI KRATIKESWAR SAHU (SECRETARY) - EC

1. The proposal is for Environmental Clearance of M/s All Odisha State Bank Officers Housing Co-operative Society Ltd for proposed construction of housing Project of (LB+UB+S+14) and (LB+UB+S+20) residential apartment “Grace” over an area of area of 1.409 Ha/3.48 Acres At - Mouza Subudhipur, & Sankarpur, Bhubaneswar, Dist – Khurda with total built up area - 74268.84 Sqm.
2. The project falls under category “B” or activity 8 (a) - Building and Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. M/s All Odisha State Bank Officers Housing Co-operative Society Ltd. has planned to develop a proposed Residential Apartment Building “Grace” at Plot No. 1/888/1294, 2/950/1215, 30/835, 29/1252, 29/874, 28/1266, 27/1265, 31/120/126, Mouza - Subudhipur, Plot No. 2023, 2022, 2015, 2016, 2017, 2018, 2020, 036/9878, Mouza - Shankarpur, Tahasil- Bhubaneswar, District-Khordha, State-Orissa, Village Panchayat has permitted the construction of proposed residential project at the project site. The proposed site is located at mouza Subudhipur & Sankarpur, Bhubaneswar, Dist - Khurda, Odisha.

ITEM NO. 7

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR KUSHABHADRA RIVER SAND BED OVER AN AREA OF 55 ACRES /22.26 HA. IN VILLAGE BHUBANPUR OF BALIANTA TAHASIL IN THE DISTRICT OF KHORDHA (TOR).

1. This is a proposal for mining of minor mineral (Sand) over an area of 55 acres /22.26 ha. in village Bhubanpur of Baliana Tahasil in the District of Khordha.
2. The concerned Tahasildar has applied for ToRs for EIA study at SEIAA, Odisha under category B1 as the lease area is ≥ 5 ha.
3. The SEIAA, Odisha forwarded the proposal to SEAC with a remark that SEAC may depute a sub-Committee to inspect the proposed area to find out if unauthorized sand mining is already going on in the applied area and its surrounding belt, as is apparent from the google map submitted by the Tahasildar.
4. The proposed site was visited by the Sub-Committee of SEAC on 02.05.2022. Copy of the inspection report is enclosed as **Annexure - C**. The observations of the Sub-Committee are as follows:
 - i) The Sub-committee did not observe any mining activity at the proposed site during its visit.
 - ii) The sand quarry is proposed over an area of 22.26 Ha in the Kusabhadra River. The quarry is located in the confluence of River Kusabhadra and Bhargabi. It is located in the village Bhubanapur, Tahasil-Baliana. Areas with environmental sensitivity from the proposed quarry site are; two road bridges, Kuakhai bridge at 0.9km and Kusabhadra bridge at 300m, High Tech hospital (0.3km), electric transmission line(100m), Kusabhadra embankment (300m), Kuakhai river intake for irrigation(0.4km) and the village Baliana (0.3km).
 - iii) Adjacent to the proposed quarry, there lies another quarry over 16 Ha, called Pandara Ghat, owned by Mahesh Chandra Ray. Hence, both the quarries will be treated under cluster approach.
 - iv) To ensure grain size of the sand in the quarry area, three samples were collected and were analyzed using Particle size Analyzer (Malvern). Reports of the three samples are also attached. Reports indicate that except for sample 3, sand percentage in sample 1 and sample 2 are respectively 99.94% and 98.53%. Percentage of sand in sample 3 is 86.88% while clay percentage is 11.08%. Sand in all the three samples is predominantly in the range fine sand to coarse sand. From the above grain size distribution and the deposition of sand (thickness more than 2.5m), the quarry is fit for mining.
 - v) At present the flow in Kusabhadra river is not perennial and is mostly blocked at the confluence due to deposition of sand. Hence mining of sand shall facilitate free flow of river water, enhance the possibility of replenishment and reduce the water logging in the upstream.
 - vi) However, considering the sensitivity of the areas located within 500m from the sand

quarry, the proponent should take appropriate preventive measure for the safe guard of the embankments on High Tech hospital side as well as on the village side of Baliana.

- vii) Haulage road, approximately 0.9km, connecting the site to NH 16 should be developed by the proponent and should be maintained at regular interval.

After detailed discussion, the SEAC decided to forward the proposal to SEIAA, Odisha with a request to consider ToRs for EIA study as per observation of the Sub-Committee of SEAC.


ITEM NO. 08

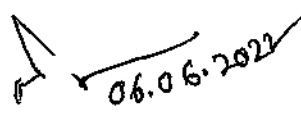
PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S ADISH MINERALS PVT. LTD. FOR PROPOSED CHROME ORE BENEFICIATION PLANT OF CAPACITY 1,20,000 TPA THROUGHPUT OVER AN MINING LEASE AREA 13.43 ACRES AT MOUZA-BAUNSAMALI, PS- BADACHANA, DIST-JAJPUR, ODISHA OF SRI NRUSINGHA CHARAN PARIDA (DIRECTOR) – RECONSIDERATION OF EC.

1. The proposed project is for Environmental Clearance of M/s Adish Minerals Pvt. Ltd. for proposed chrome ore beneficiation plant of capacity 1,20,000 TPA throughput over a mining lease area 13.43 acres at Mouza- Baunsamali, PS- Badachana, Dist-Jajpur, Odisha of Sri Nrusingha Charan Parida (Director).
2. M/s Adish Minerals Private Limited has proposed for installation of greenfield Chrome Ore Beneficiation Plant of capacity 1, 20, 000 TPA throughput located at - Mouza-Baunsamuli, Thana- Badachana, District Jajpur, Odisha.
3. As per EIA Notification dated 14th Sep, 2006 as amended from time to time, the project falls under Category “B”, Project or Activity 2(b) – Mineral Beneficiation Unit.
4. The Company “Adish Minerals Private Limited” (AMPL) is incorporated under Companies Act 2013 on 25th April 2018. The Company is a private limited company with Corporate Identity Number- U14298OR2018PTC028769. The Major Objective of the Company is to Beneficiate Low Grade Chrome to Chrome concentrate and sell to various industries of Odisha & other states of India. The Project will have an 100% capacity of beneficiation 120000 TPA of Siliceous Chrome ore material. The concentrated chrome ore output is envisaged as 74400 TPA with conc. Of Cr₂O₃ between 46 to 54%.
5. **Site Location and Connectivity** - The site is located at Mouza- Baunsamuli, Thana- Badachana, District- Jajpur of Odisha bounded by Latitude 20°41’49.3” N and Longitude 86°00’04.1” E which falls under the Survey of India Toposheet No.F45T13, F45T14,F45U1,F45U2. Total Area of the plant is 13.43 acres. Out of Total land, 5.38 acres (5.435 Ha.) had been acquired at Village- Salapada, Tehsil- Darpan, Thana- Badachana, District- Jajpur of Odisha State. There is no habitation in the proposed area. Nearest habitation is Salapada which is at a distance of 0.30 km from project site. The site is well connected with the road. NH-5 is at a distance of 12- 15 Km from the project site. The nearest railway facility is Barithengarh Railway Station which is 7.5 km. The Nearest airport is Bhubaneswar at 53 km and nearest seaport is Paradeep at a distance of 84 km (SE) from the project site. Water Bodies: Kumaria Nadi- 8.2 Km & Mahanadi River- 17 Km. Nearest town Chandikhol located at a distance of 10.0 Km from the project site. NH- 5

30. The SEAC opined that EIA report, presentation by the consultant along with the PP, exhaustive deliberation during presentation followed by clarification by the PP/ consultant had undergone comprehensive appraisal with professional prudence and hence, no room is left for further re- appraisal on the generic observations of SEIAA. The site was also visited by SEAC Sub-Committee of two very senior Expert members which is also very site specific and exhaustive. Besides, this being a green field project, any further site inspection will not have any value addition to the report of SEAC Sub-Committee and hence, not required. The SEAC also opined that the expression "couched in vague terms" is not in good taste which could have been avoided. The proceedings of SEAC are prepared with absolute fairness after threadbare discussion with appropriate terms.

After detailed discussion, the SEAC reiterates its earlier recommendations for the grant of Environmental Clearance to the proposal.


Secretary, SEAC

Approved

Chairman, SEAC
06.06.2022

REPORT OF THE SUB COMMITTEE ON THE FIELD VISIT TO KUSABHADRA RIVER SAND QUARRY LOCATED ON KUSABHADRA RIVER

Members of the Subcommittee:

Mr Jiban Mohapatra, Member, SEAC, Odisha

Professor Pratap Kumar Mohanty, Member, SEAC, Odisha

The subcommittee consisting of the above two members of SEAC visited the proposed site for sand mining on 2 May, 2022 in the presence of the following representatives; Mr Saroj Kumar Panda, Tahasildar, Baliana, Mr Debadata Biswal, RI, Baliana, Mr Jagabandhu, representative of Kalyani Lab and Mr. Sunakar Pradhan, owner of the sand quarry along with some of his colleagues.

The sand quarry is proposed over an area of 22.26 Ha in the Kusabhadra River. The quarry is located in the confluence of River Kusabhadra and Bhargabi. It is located in the village Bhubanapur, Tahasil-Baliana. Areas with environmental sensitivity from the proposed quarry site are; two road bridges, Kuakhai bridge at 0.9km and Kusabhadra bridge at 300m, High Tech hospital (0.3km), electric transmission line(100m), Kusabhadra embankment (300m), Kuakhai river intake for irrigation(0.4km) and the village Baliana (0.3km).

Adjacent to the proposed quarry, there lies another quarry over 16 Ha, called Pandara Ghat, owned by Mahesh Chandra Ray. Hence, both the quarries will be treated under cluster approach.

To ensure grain size of the sand in the quarry area, three samples were collected and were analysed using Particle size Analyser (Malvern). Reports of the three samples are also attached. Reports indicate that except for sample 3, sand percentage in sample 1 and sample 2 are respectively 99.94% and 98.53%. Percentage of sand in sample 3 is 86.88% while clay percentage is 11.08%. Sand in all the three samples is predominantly in the range fine sand to coarse sand. From the above grain size distribution and the deposition of sand (thickness more than 2.5m), the quarry is fit for mining.

At present the flow in Kusabhadra river is not perennial and is mostly blocked at the confluence due to deposition of sand. Hence mining of sand shall facilitate free flow of river water, enhance the possibility of replenishment and reduce the water logging in the upstream.

However, considering the sensitivity of the areas located within 500m from the sand quarry, the proponent should take appropriate preventive measure for the safe guard of the embankments on High Tech hospital side as well as on the village side of Baliana.

Haulage road, approximately 0.9km, connecting the site to NH 16 should be developed by the proponent and should be maintained at regular interval.

Following are some of the photographs of the site indicating huge sand deposit, blockage of the river flow at the confluence, the river embankment, road bridge at a distance and collection of sand samples.



(Mr Jiban Mohapatra)

Handwritten signature of Professor Pratap K. Mohanty.

(Professor Pratap K. Mohanty)

Results

Sample Name: Average of 'S-2 9.5.2022'

Dv (10) 271 µm

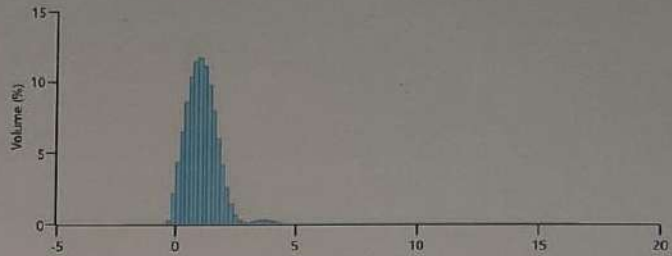
Dv (50) 480 µm

Dv (90) 804 µm

Inclusive Soil Statistics

Inclusive Kurtosis: .97 Mesokurtic
 Inclusive Skewness: .05 Near Symmetrical
 Inclusive SD: .61 Moderately Well Sorted
 Inclusive Mean: 1.07 Medium Grained

Histogram



Particle Size (Phi Units)
 (19) Average of 'S-2 9.5.2022-09-05-2022'
 14:35:04

Result:

Size (phi)	% Volume In	Size (phi)	% Volume In	Size (phi)	% Volume In	Size (phi)	% Volume In
-2.0	0.00	3.0	0.35	8.0	0.00	13.0	0.00
-1.5	0.00	3.5	0.58	8.5	0.00	13.5	0.00
-1.0	0.00	4.0	0.30	9.0	0.00	14.0	0.00
-0.5	1.96	4.5	0.00	9.5	0.00	14.5	0.00
0.0	15.67	5.0	0.00	10.0	0.00	15.0	0.00
0.5	28.62	5.5	0.00	10.5	0.00	15.5	0.00
1.0	29.27	6.0	0.00	11.0	0.00	16.0	0.00
1.5	17.08	6.5	0.00	11.5	0.00	16.5	0.00
2.0	5.47	7.0	0.00	12.0	0.00	17.0	0.00
2.5	0.70	7.5	0.00	12.5	0.00		

Soil classification

Fraction	% in
Clay (<2µm)	0
Silt (2 - 50µm)	.06
Very fine sand (50-100µm)	1
Fine sand (100-250µm)	6.35
Medium sand (250-500µm)	46.34
Coarse sand (500-1000µm)	44.29
Very coarse sand (1000-2000µm)	1.96
Total sand (50-2000µm)	99.94

Soil texture triangle

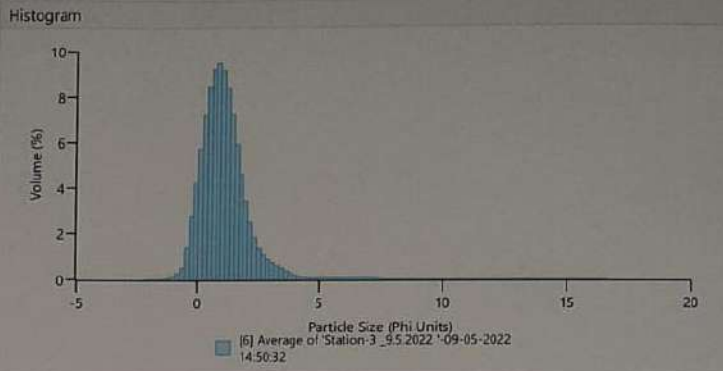
Soil Texture

Soil Texture: sand

Handwritten signature

20 18 21 . 79 } sample-1
 85 52 59 . 71

Results
Sample Name Average of 'Station-3_9.5.2022'
Dv (10) 218 µm
Dv (50) 511 µm
Dv (90) 962 µm



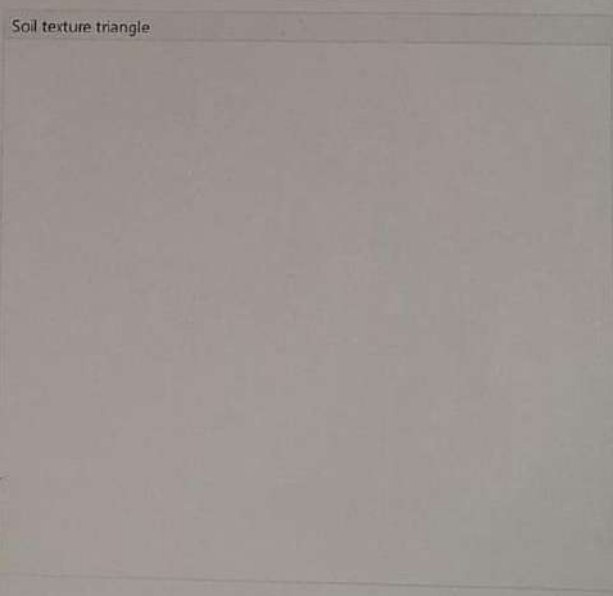
Inclusive Soil Statistics
 Inclusive Kurtosis: 1.14 Leptokurtic
 Inclusive Skewness: .17 Fine Skewed
 Inclusive SD: .85 Moderately Sorted
 Inclusive Mean: 1.02 Medium Grained

Result:

Size (phi)	% Volume In	Size (phi)	% Volume In	Size (phi)	% Volume In	Size (phi)	% Volume In
-2.0	0.00	3.0	1.68	8.0	0.00	13.0	0.00
-1.5	0.12	3.5	0.88	8.5	0.00	13.5	0.00
-1.0	0.98	4.0	0.34	9.0	0.00	14.0	0.00
-0.5	7.44	4.5	0.18	9.5	0.00	14.5	0.00
0.0	18.16	5.0	0.22	10.0	0.00	15.0	0.00
0.5	24.92	5.5	0.22	10.5	0.00	15.5	0.00
1.0	22.24	6.0	0.22	11.0	0.00	16.0	0.00
1.5	13.13	6.5	0.25	11.5	0.00	16.5	0.00
2.0	6.00	7.0	0.17	12.0	0.00	17.0	0.00
2.5	2.85	7.5	0.01	12.5	0.00		


Soil classification

Fraction	% in
Clay (<2µm)	0
Silt (2 - 50µm)	1.35
Very fine sand (50-100µm)	1.64
Fine sand (100-250µm)	10.03
Medium sand (250-500µm)	35.37
Coarse sand (500-1000µm)	43.07
Very coarse sand (1000-2000µm)	8.42
Total sand (50-2000µm)	98.53



Soil Texture
 Soil Texture: sand

Handwritten signature


 Malvern Instruments Ltd.
 www.malvern.com

20 18 20.18 } sample 2
 85 52 59.94 }

Results

Sample Name Average of 'S-1 9.5.2022'

Dv (10) 0.336 μm

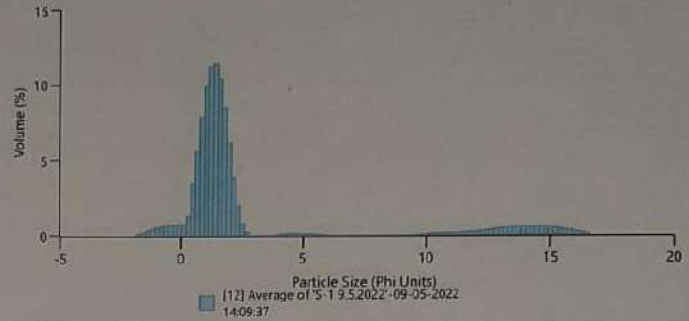
Dv (50) 377 μm

Dv (90) 675 μm

Inclusive Soil Statistics

Inclusive Kurtosis: 6.44 Extremely Leptokurtic
 Inclusive Skewness: .46 Strongly Fine Skewed
 Inclusive SD: 2.48 Very Poorly Sorted
 Inclusive Mean: 1.46 Medium Grained

Histogram



Result

Size (phi)	% Volume In	Size (phi)	% Volume In	Size (phi)	% Volume In	Size (phi)	% Volume In
-2.0	0.25	3.0	0.00	8.0	0.00	13.0	1.20
-1.5	0.99	3.5	0.03	8.5	0.00	13.5	1.38
-1.0	1.59	4.0	0.22	9.0	0.00	14.0	1.44
-0.5	1.95	4.5	0.31	9.5	0.08	14.5	1.37
0.0	3.95	5.0	0.25	10.0	0.26	15.0	1.17
0.5	17.40	5.5	0.13	10.5	0.33	15.5	0.84
1.0	29.62	6.0	0.01	11.0	0.38	16.0	0.42
1.5	23.51	6.5	0.00	11.5	0.50	16.5	0.04
2.0	8.06	7.0	0.00	12.0	0.71	17.0	
2.5	0.64	7.5	0.00	12.5	0.97		

Soil classification

Fraction	% in
Clay (<2um)	11.08
Silt (2 - 50um)	.79
Very fine sand (50-100um)	.16
Fine sand (100-250um)	8.7
Medium sand (250-500um)	53.13
Coarse sand (500-1000um)	21.35
Very coarse sand (1000-2000um)	3.55
Total sand (50-2000um)	86.88

Soil texture triangle

Soil Texture

Soil Texture: loamy sand

PC10



Malvern Instruments Ltd.
www.malvern.com

20 18 22 . 88 } example-3
 85 53 01 . 67 }

Mastersizer - v3.81
Page 1 of 1

9-5-22 sample 1 SIR
Created: 01-01-2018
Printed: 09-05-2022 14:17

Agenda notes for SEIAA meeting dated 12.07.2022 etc. and minutes of the meeting

Online Proposals

84th Meeting of SEIAA, Odisha dated 12.07.2022, 13.07.2022 and 14.07.2022at 11.00 a.m.

SI. No	Proposal Category (B1, B2) and Proposal type (TOR/EC/MO/DIEC/MODIT OR/Transfer of EC)	Project Sector and EIA notification Schedule.	Auto generated File No.	Name of the Applicant/ Project Proponent	Title of the proposal	Date of receipt of the proposal online	Status indicated in the PARI VESH portal	Decisions of SEIAA in the previous meeting	Current Status and Agenda Note	Observations / Decisions of SEIAA Meeting
1.	B2, EC	1(a) Mining of minerals	SIA/OR/MIN/262499/2022	Sri Kulamani Ranbida	Proposal for EC of Charbhati Sand Bed over an lease area 8.16 acres/3.30 Ha in village-Charbhati, Tahasil-Jharsuguda, Dist-Jharsiguda	28.04.2022	Under examination of SEIAA after SEA C	Online proposal for EC	<p>This is regarding a new proposal for mining of minor mineral Sand. The project has submitted at SEIAA under Category 'B2' as the lease area is ≤ 5.0 Ha. As per the EIA Notification, 2006, this project falls in the schedule under Sl. No-1(a)–“mining of mineral” of non-coal mining sector. The project proponent has submitted proposal for EC of Charbhati Sand Bed, over a lease area 8.16 Acres/3.302 Ha in village-Charbhata, Tahasil-Jharsuguda, Dist-Jharsuguda and the project proponent is Tahasildar, Jharsuguda.</p> <p>The following documents have been received Form-1, Form-2, PFR, EMP, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate, topomap etc.</p> <p>The following deficiencies/omission have been noticed in the above documents.</p> <ul style="list-style-type: none"> • Nil <p>Distance from nearest sanctuary/ESZ-Debrigarh WLS-47.5.0km Whether the lease area coming in D.L.C. report-No Whether the lease area reflecting in DSR-Yes Method of mining-Manual River-BasundharaNala, depth of sand deposition-1.6 meter Distance from Nearest Road Bridge-9.26km, RD road-0.4km Whether it is part of cluster –No</p>	EC be granted with maximum depth of extraction allowed upto 0.8m, and maximum quantity as submitted in the proposal. Rate of replenishment study be completed by November, 2023. Usual conditions be imposed.

									<p>10. The Environment consultant M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar along with the proponent has made a briefing on the proposal before the Committee.</p> <p>11. The SEAC recommended for extension of validity period of Environmental Clearance upto lease period with stipulated conditions as per Annexure – B.</p> <p>In view of the above the proposal may be placed in the SEIAA meeting for consideration.</p>	
54.	B1, TOR	1(a) Mining of minerals	SIA/OR/MIN/71311/2022	Tahasil dar Baliana	Kushabhada River Sand Quarry over an Area of 22.26 Ha. Located In Village Bhubanpur Under Baliana G.P./Tahasil of Khurda Dist of Odisha	14.02.2022	Under examination of SEIAA	This is a fresh online proposal for TOR.	<p>This is regarding a new proposal for mining of minor mineral Sand. The project has submitted at SEIAA under Category 'B1' as the lease area is ≥ 5.0 Ha. As per the EIA Notification, 2006, this project falls in the schedule under Sl. No-1(a)–“Mining of Mineral” of non-coal mining sector. The project proponent has submitted Proposal for Fresh EC of Kushabhada River Sand Bed over an area 55.00 acres acre 22.26 hectares in village Bhubanpur of Baliana Tahasil in Khordha District, Odisha and the PP is Tahasildar, Baliana.</p> <p>The following documents have been received Checklist, form-1, DSR, PFR, topomap, village sheet, lease order, mining approval letter, mining plan, cluster clarification.</p> <p>The following deficiencies/omission have been noticed in the above documents.</p> <ul style="list-style-type: none"> • Tahasildar has submitted that the quarry is not in operating conditions. • As per the google map submitted by PP, it reveals that the some part of the proposed quarry is in operating condition with obstructing the natural flow of the river water. <p>Distance from nearest sanctuary/ESZ-Chandaka WLS-20.0km Whether the lease area coming in D.L.C. report-No Whether the lease area reflecting in DSR-Yes Method of mining- Manual River- Kushabhada, depth of sand deposit-2.5m Distance from Nearest Road Bridge-0.9km, H-Tech Hospital road-0.60km, electric transmission line-100m. Whether it is part of cluster – No Whether EC obtained earlier- No. Production capacity per annum-158510 cum/annum (max.) with depth 2.5m, Geological reserve-495355 cum, Mineable reserve-440307.5 cum This is a B1 category project.</p> <p>1. The proposed site was visited by the Sub-Committee of SEAC on 02.05.2022. Copy of the inspection report is enclosed as Annexure-C. The observations of the Sub-Committee are as follows:</p>	Location of the quarry site is close to two road bridges, river embankment, water intake station of WR department, Hospital, etc. There is apparently sand mining in this area by pumping from below water flow channel of the river. The haulage roads are not maintained at all. ToR may be issued giving the usual points, for sand mining projects; and seeking detailed clarification on the above worrisome aspects.


									<ul style="list-style-type: none"> i) The Sub-committee did not observe any mining activity at the proposed site during its visit. ii) The sand quarry is proposed over an area of 22.26 Ha in the Kusabhadra River. The quarry is located in the confluence of River Kusabhadra and Bhargabi. It is located in the village Bhubanapur, Tahasil-Balianta. Areas with environmental sensitivity from the proposed quarry site are; two road bridges, Kuakhai bridge at 0.9km and Kusabhadra bridge at 300m, High Tech hospital (0.3km), electric transmission line(100m), Kusabhadra embankment (300m), Kuakhai river intake for irrigation(0.4km) and the village Balianta (0.3km). iii) Adjacent to the proposed quarry, there lies another quarry over 16 Ha, called Pandara Ghat, owned by Mahesh Chandra Ray. Hence, both the quarries will be treated under cluster approach. iv) To ensure grain size of the sand in the quarry area, three samples were collected and were analyzed using Particle size Analyzer (Malvern). Reports of the three samples are also attached. Reports indicate that except for sample 3, sand percentage in sample 1 and sample 2 are respectively 99.94% and 98.53%. Percentage of sand in sample 3 is 86.88% while clay percentage is 11.08%. Sand in all the three samples is predominantly in the range fine sand to coarse sand. From the above grain size distribution and the deposition of sand (thickness more than 2.5m), the quarry is fit for mining. v) At present the flow in Kusabhadra river is not perennial and is mostly blocked at the confluence due to deposition of sand. Hence mining of sand shall facilitate free flow of river water, enhance the possibility of replenishment and reduce the water logging in the upstream. vi) However, considering the sensitivity of the areas located within 500m from the sand quarry, the proponent should take appropriate preventive measure for the safe guard of the embankments on High Tech hospital side as well as on the village side of Balianta. vii) Haulage road, approximately 0.9km, connecting the site to NH 16 should be developed by the proponent and should 	
--	--	--	--	--	--	--	--	--	--	--

									<p>be maintained at regular interval.</p> <p>After detailed discussion, the SEAC decided to forward the proposal to SEIAA, Odisha with a request to consider ToRs for EIA study as per observation of the Sub-Committee of SEAC.</p> <p>The Tahasildar, Baliana has submitted vide letter no. 1454 dtd. 18.06.2022 that the proposed quarry is coming under cluster with total cluster area 40.88 ha and accordingly submitted modified checklist for Cluster.</p> <p>In view of the above the proposal may be placed in the SEIAA meeting for consideration of ToR.</p>	
55.	B1, EC	1(a) Mining of minerals	SIA/OR/MIN/57719/2020	M/s Premex	Proposal of M/s Premex for 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	02.04.2022	Under examination of SEIAA after SEAC	Online proposal for EC	<p>This is regarding a new proposal for mining of minor mineral Sand. The project has submitted at SEIAA under Category 'B1' as the lease area is ≥ 5.0 Ha. As per the EIA Notification, 2006, this project falls in the schedule under Sl.No-1(a) –“mining of mineral” of non-coal mining sector. The project proponent has submitted proposal for EC of New proposed project of Chasanimakhandi Sand Quarry with proposed excavation of 3000 m³/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 and the project proponent is Sri Pravat Ranjan Mishra Partner of M/s. Premex.</p> <p>The following documents have been received Form-2, PFR, EIA &EMP, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate, topomap etc.</p> <p>The following deficiencies/omission have been noticed in the above documents.</p> <ul style="list-style-type: none"> • Nil <p>Distance from nearest sanctuary/ESZ-Lakahary Valley WLS-65.0km Whether the lease area coming in D.L.C. report-No Whether the lease area reflecting in DSR-Yes Method of mining-Manual River-Ghoraharh, Depth of the river-1.5 meter Distance from Nearest Road Bridge-40km, village road-0.45km Whether it is part of cluster –No Whether EC obtained earlier-No Production capacity per annum-3000 cum/annum (max.), Geological reserve-196170 cum, Mineable reserve-100348 cum This is a B1 category project. Whether SEAC recommended the proposal –Yes Other Points</p> <p>1. The auto generated standard TOR was granted for this project vide letter No. File No.57719/41-MINB1/10-2020 on dated 21.12.2020 and specific TOR issued by SEIAA vide letter no – 9678/SEIAA</p>	A proper replenishment study rate may be carried out and the mining plan be recast based on the said study. The methodology adopted, the relevant data obtained in course of the study be reported by November, 2023. Pending carrying out of the above, EC may be given with the usual conditions for extraction of maximum 3000 cum in first year.

									<p>air pollution. From the process 0.153 TDP of Mahua flower Residue and 0.127 TPD of husk ash generated as solid waste.</p> <ol style="list-style-type: none"> 7. 1.57 KLD of waste water generated from the unit from process. 8. The waste water stored in settling tank for reuse in the plant. 9. The solid waste mahua flower residue used for organic manure and the husk ash for brick making. 10. The PP submitted Zero Liquid Discharged will be adopted for this project. 11. The green belt over Ac 0.070 dec has developed in the area 12. The green belt over Ac 0.070 dec has developed in the area 13. The project cost is Rs. 10,00,000.00. 14. The SEAC recommended the proposal for EC with modified conditions as recommended in the SEAC meeting held on 19.06.2018. <p>In view of the above the proposal may be placed in the SEIAA meeting for consideration.</p>
--	--	--	--	--	--	--	--	--	--

The Meeting ended with a vote of thanks to the Chairman.


 (Sri Susanta Nanda)
 Member Secretary, SEIAA


 (Dr. S. P. Das)
 Member, SEIAA


 (Sri S.C. Mohanty)
 Chairman, SEIAA

**State Environment Impact Assessment Authority, (SEIAA),
Odisha**

Qr. No. 5RF-2/1, Unit – IX, Bhubaneswar – 751022, Tel: 0674-2540669

No. 4926/SEIAA

Dt. 21.07.2022

SEIAA File No. SIA/OR/MIN/71311/2022

To

The Tahasildar, Baliana
Tahasil - Baliana
Dist- Khordha

Sub: Proposal for ToR of Kushabhadra River Sand Bed over an area of 22.26 Ha (coming under cluster with total lease area under cluster is 38.26 Ha) bearing Khat no. 330 and Plot no. 58(P) in village-Bhubanpur, Tahasil-Baliana the District of Khordha of Tahasildar, Baliana -Issuance of Terms of Reference (ToR) reg.

Ref: 1) Your online application dated 14.02.2022 for issue of ToR vide Proposal No:SIA/OR/MIN/71311/2022

2. SEIAA meeting held on 14.07.2022.

Sir/Madam,

This has reference to the online proposal submitted in the Ministry of Environment, Forest and Climate Change (SEIAA, Odisha) to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format. (Form-1) along with Pre-feasibility Report, DSR, Checklist and Approved Mining Plan.etc. The State Level Expert Appraisal Committee (SEAC) its meeting held on 02.06.2022 recommended the proposal for ToR.

In this regard, under the provisions of the EIA Notification 2006 as amended the State Environment Impact Assessment Authority (SEIAA) after considering the SEAC recommendation accords the proposal for Standard ToR (enclosed as Annexure-I) along with specific ToR as mentioned below for the purpose of preparing environment impact assessment report and environment management plan with public hearing for obtaining prior environment clearance is prescribed.

*Sandip
sent it
to belong
lab for
growth
subm
4.8.2022*

[Signature]

Specific ToRs

1. The project proponent has to carry out by engaging appropriate consultant, a study of the annual replenishment rate of sand by collecting pre monsoon & post monsoon data from the field to know the quantum of volume of sand deposited/replenished & extracted in the mining lease area. The detailed comparison of both pre-monsoon and post-monsoon elevation data shall be included in the study report. As per the MOEF&CC, Govt. of India's Enforcement and Monitoring Guideline for Sand Mining, 2020, there are two methods prescribed for the study of rate of replenishment of sand on a stretch of river bed. These are (1) physical survey of the field by the conventional method and (2) use of UAV / Drone and other image data processing techniques. The second method UAV/ Drone method is the one which has been found suitable for the above purpose, and recommended by the ORSAC, Bhubaneswar and There are some organization in Odisha state who are empanel by ORSAC to conduct such survey. The details of UAV / Drone method is attached a separate sheet. The finding of the study shall be submitted to SEIAA to assess the rate of replenishment of mined out sand in the lease area. The replenishment rate of sand may be studied as per the procedure laid down in the Enforcement and Monitoring Guidelines for Sand Mining, 2020 (www.moef.gov.in) issued by the MoEF&CC, Govt. of India. The finding of the study shall be submitted to SEIAA along with the final EIA / EMP report to assess the rate of replenishment of mined out sand.
2. Location of the quarry site is close to two Road Bridge, river embankment, water intake station of WR department, Hospital, etc. There is apparently sand mining in this area by pumping from below water flow channel of the river and changing natural flow of river water. The haulage roads are not maintained at all. In view of the above submit 1:50,000 scale topomap with highlighting geo-tagged lease area, nearest bridge distance, river embankment and river bank, temple, transporting route form source to main road and accordingly mentioned the mitigation measure to be adopted for safety of River Bridge, temple, and village road. Also submit geo-tagged boundary area of nearest sand bed with clearly mentioning whether the quarry obtained EC if yes, then submit full-scale EC compliance report, if no then submit quantum of sand extracted illegally or unauthorized and action taken.



3. Area of the 'no mining zone' specially demarcated within the list out area for safety of the river bank / any bridge or such other structure nearby; and the dimensions and geo-co-ordinates of this zone w.r.t lease boundary.
4. Any approach road existing or will be constructed inside the safety zone?
5. Mitigation measures to be taken to ensure not to disturb free flow of river.
6. Distance of the river bank / embankment from the lease boundary. It is a river bank or embankment?
7. Submit cluster certificate of the proposed sand bed.
8. Any ramp existing or will be constructed on the river bank / embankment for movement of vehicles to reach the nearest road.
9. Distance of the village road / city road / district road / public road for the river bank. Is this road single road / double road?
10. No. of village (s) and name of village (s) or the city (s) or urban place (s) or semi urban place (s) through which the sand carrying vehicles will ply and the distance of it from the river bank or embankment whether there is any forest land in the intervening area through which the sand carrying trucks will ply.
11. Whether schools / colleges / hospitals / health centers / bus stops / religious places existing nearby and if so, the distances of it from the bank or the road through which the vehicle will ply or existing alongside the road?
12. Any plantation done in the safety zone or embankment in case of an existing mines and if so, the area of plantation, number of species.? If not, the plan for it to arrest bank erosion.
13. Any stone packing in the river bank / embankment existing in case of existing mines and if not, the plan for it.
14. Whether, any alternative mine exists or explored or can be explored if this mine is otherwise found unsuitable? Please furnish details.
15. (i) Whether permission taken or will be taken from Water Resource Authority or the concerned Authority of the roads to be used for plying of vehicles loaded with sand or empty vehicles for the same after the river bank.
(ii) Responsibility of perennial perpetual maintenance of these roads and the mechanism for the same.
16. No and type of vehicles to be used daily and the frequency for the purpose of transportation and the time and duration of such transportation. Whether permission taken or will be taken for the appropriate authority for the purpose.

17. Intersection point of the haulage roads with the main SH / NH / public road and the traffic density study at appropriate locations by domain expert with remedial measures for decongestion and road safety.
18. (i) Any bridge (road / rail) existing and the distance of it from the lease boundary.
(ii) Any culvert or small bridge will be used by the plying vehicles carrying the sand minerals.
19. Any High Transmission Electric line existing and if yes, the distance of the same from the boundary of the lease.

[Handwritten mark]

Yours faithfully,

[Handwritten signature]
Member Secretary

Memo No. 4927/SEIAA
Copy forwarded to

Dated 21.07.2022.

1. The ADM & Collector, Khordha for information and necessary action.
2. The Deputy Secretary, of MM&S Branch of Revenue and DM Department, Govt. of Odisha Bhubaneswar for information.

[Handwritten mark]

[Handwritten signature]
Member Secretary