

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 31<sup>st</sup> JANUARY, 2022**

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The SEAC met on 31<sup>st</sup> January, 2022 at 10:30 AM 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.) H.B. Sahu	-	Member
5. Sri J. K. Mahapatra	-	Member
6. Sri K. R. Acharya	-	Member
7. Prof. (Dr.) B.K. Satpathy	-	Member
8. Prof. (Dr.) P.K. Mohanty	-	Member
9. Dr. K.C.S Panigrahi	-	Member
10. Dr. Sailabala Padhi	-	Member

Draft proceeding of the meeting was finalized by the members through e-mail and also final proceeding of the meeting was confirmed by the members through e-mail. The agenda-wise proceedings and recommendations of the committee are detailed below.

**ITEM NO. 01**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. VIKASH MULTI SPECIALITY HOSPITAL PROJECT FOR EXPANSION OF VIKASH MULTI SPECIALITY HOSPITAL OVER AN AREA OF 82,313.06 M<sup>2</sup> (20.34 ACRES) LOCATED AT BARAHAGUDA CANAL CHOWK, DISTRICT-BARGARH, ODISHA OF SRI D MURLI KRISHNA (PARTNER) & TOTAL BUILT UP AREA - 1,24,483.00 M<sup>2</sup> - EC**

1. M/s Vikash Multi Speciality Hospital aims to expand the existing Hospital from 150 beds to 1050 beds over Chaka Plot No.-1396,1397,1398,1390,3541,3546(P), 3531, 3547, 3551, 3528, 3529, 3549, 3533, 3550, 3533/16270, 3542, 1403, 3560, 3566, 1389, 2113(P), 3558, 1393, 1401, 3560(P), 1395, 1394, 1399, 1400, 3561, 3548, 1402, 1402/3968, 1392,1391 at Barahaguda Canal Chowk, District-Bargarh, Odisha for land measuring 2.32 ha (20.34 acres) or 82,313.06 m<sup>2</sup>.
2. The project falls under category "B" or activity 8 (a)-Building & Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. The site is coming under Bargarh Panchayat. There are total 11 blocks i.e existing Hospital, proposed Hospital Wing-1, Hospital Wing-2, Hospital Wing-3 (Medical College), Hospital Wing-4, Boys Hostel-Block -1, Boys Hostel-Block-2, Girls Hostel-Block -1, Girls Hostel-Block-2, Nurses Hostel, Nurses Quarters.
4. The EC application was submitted online to SEIAA, Odisha on 4th January 2022 vide proposal no. SIA/OR/NCP/249833/2022.

5. The site is adjacent to NH-53 towards North direction. The nearest railway station is Bargarh Railway Station approx. 2.4 km in SW direction from the project site and Veer Surendra Sai Airport, Jharsuguda is at a distance of approx. 73 km in North East direction from the project site.
6. The project has 1 basement and 6 floors (B+G+6). The maximum height of the building will be 23.4 m. The total plot area is 82,313.06 sqm. The permissible ground coverage will be 41,156.53 sqm (50%) and proposed Ground Coverage will be 18,960.00 sqm (23.03%). The permissible FAR will be 4,93,878.36 sqm (@ 6 of plot area) and proposed FAR will be 1,07,573.00 sqm (1.31 of plot area). The non-FAR for the project will be 16,910.00 sqm. Total Basement area will be 10,699.00 sqm. Total Built up area for the project will be 1,24,483.00 sqm. The total population of project after proposed expansion will be 4825 persons.
7. The total water requirement will be 1006 KLD. The total domestic water will be 687 KLD, out of which fresh water requirement is approx. 525 KLD will be met through Ground water and Bore well.
8. The project will generate approx. 603 KLD of wastewater.
9. The wastewater will be treated in an onsite STP of 560 KLD capacity and ETP of 170 KLD. The treated water (419 KLD @ 90% of total waste water) will be reused for flushing (162 KLD), horticulture (140 KLD) & HVAC Cooling (12 KLD). Surplus treated water during dry season (229 KLD), monsoon season (355 KLD) and winter season (318 KLD) will be discharged to external sewer with the requisite permission. Total 28 RWH pit at different locations will be constructed.
10. Total parking area requirement will be 32,271.9 m<sup>2</sup> and provision will 33,200 m<sup>2</sup>. And Total Parking i.e. 1,273 ECS will be provided.
11. Power Requirement: The power supply will be supplied by TPCODL, Bhubaneswar City Distribution. The requirement load for the project will be approx. 4200 kVA.
12. Power Backup: Total 7 nos. of DG sets total 3365 kVA (6\*500 kVA+1\*365 kVA) capacity for power back up in the residential block and the services and annexure block. Silent DG sets (Radiator cooled). Separate generator yard will be constructed for the residential block. The total solid waste generation will be 2355 kg/day. Total green area measures 27,986.5 m<sup>2</sup> i.e. 34% of the plot area. Tree Plantation area = 18,108.87 m<sup>2</sup> (22%) + Lawn area = 9,877.56 m<sup>2</sup> (12%). As per MoEF&CC guidelines, no. of trees required= Plot area/80 sqm. Hence, 82,313.06/80 = 1028.9 say 1029 Nos. Total no. of trees proposed = 1035 no's Total Project cost is INR 262.42 Crores including land and development cost.
13. Vikash Multi Specialty Hospital is an existing hospital at Barahaguda Canal Chowk, District-Bargarh, Odisha with 150 beds (total existing built-up area – 11,148 m<sup>2</sup>) and aims to expand the same to 1050 beds. Total built-up area will be increased from 11,148 m<sup>2</sup> to 1,24,483 m<sup>2</sup> for the proposed expansion.

14. The chronology of the project is as follows:
- i) They had obtained Consent to Establish vide No.13847/IND-II-NOC-6076, dated 16.10.2017 for construction of Hospital Project of 150 Beds (with total built-up area 11,148 m<sup>2</sup>) and construction of the project was started after getting Consent to Establish.
  - ii) They also had obtained the provisional Occupancy certificate on 13.10.2017 for B+G+3 and Bio Medical Waste Authorization vide no. 16347/SPCB/Authorization (Bio Medical Waste) dated 19.12.2017 for Generation, Segregation, Collection, storage, packaging, reception, Transportation, Treatment, Recycling, which is valid till 31.03.2022.
  - iii) After completion of the construction of the project, they obtained Consent to Operate vide no. 6618/III-Con (Operate)133/2017-18, dated 14.12.2017 which is valid up to 31.03.2022 for 150 beds to start the operation.
15. The total site area measures 82,313.06 m<sup>2</sup> (approx. 20.34 acre) and total estimated built-up area is 1,24,483.00 m<sup>2</sup> and requires Environmental Clearance.
16. The Environment consultant **M/s Grass Roots Research & Creation India (P) Ltd., F-374-375, Sector-63, NOIDA-201301, U.P** along with the proponent has made a presentation on the proposal before the Committee

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Grass Roots Research & Creation India (P) Ltd., F-374-375, Sector-63, NOIDA-201301, U.P**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of the sub-committee of SEAC.

- (i) Through the proposed source of water is ground water for a quantity of 687 KLD, the PP need to take up suitably with W.R Deptt and explore the possibility of getting river (surface) water from the nearest river located at about 1km away through intake point in the river & pipe line till the project site. In case it is not agreed upon by W.R Deptt, then necessary 'NOC' to be obtained from CGWA for ground water and corresponding permission from W.R Deptt, Govt of Odisha.
- (ii) Existing capacity of ETP & STP with quantity of input to ETP & STP including the source be indicated. So also, the projected estimated quantity of input to STP & ETP including the source be confirmed. Chemical analysis of input to existing ETP & output discharge of the same be submitted. Flow sheet of ETP (existing and proposed) is to be submitted.
- (iii) To confirm that the output discharge from ETP (both existing & proposed) shall not be discharged to the public drain and the re-use of the same (details with estimated calculation) be submitted.
- (iv) Since discharge of treated waste water from STP is too high in the range of 229 KLD to 355 KLD is a different season, the permission of the outside public drain authority to take this additional load be submitted including storm water (if any).

- (v) 'ROW' of the land connecting the internal drain to the external land in favour of PP be submitted.
- (vi) 273 ECS is stated to have been provision for parking against projected population between about 3000 to 4800 users which is too inadequate and no provision has been made for two wheelers & bicycles. Therefore, parking provision need to be re-visited and re-worked out for which the following suggestions are made:
  - a) Provision of parking of two wheelers adjacent to hospital wings.
  - b) Identifying & demarcating open parking.
- (vii) Provision of incinerator has not been made / proposed. It is desirable to have incinerator of adequate capacity & suitable design and the same be confirmed & submitted.
- (viii) No of DG sets with capacity at present & their stack height be confirmed. Since it has been proposed 7 nos. of DG sets of total cumulative capacity of 3365 KVA (6x500 KVA + 1x365 KVA), their location with reference to predominate wind direction and location of the hospital / academic wings, hospital & residential blocks be submitted along with the stack height(s) and installation drawing of the exhaust pipe(s). Besides, emission analysis the stack be submitted including the carbon balance with carbon neutrality (Net Zone) calculation be submitted including the measures.
- (ix) The report does not contain about the residential block of doctors. The same be submitted.
- (x) Fire Tender Corridor with dimension be indicated & shown in the layout map. Fire safety Certificate for existing hospital setup & Fire safety Recommendations for the proposed expansion be submitted before consideration of EC.
- (xi) Existing & proposed green belt details with stretch / dimension / trees of plantation & the species shall be submitted.
- (xii) Provision of continuous layer of green belt along the boundary inner side with dimensions shall be submitted.
- (xiii) Kisam (Sabik & Hal) of plots of land for the project be submitted prior to EC.
- (xiv) To ensure energy conservation, list of Electrical Equipment, instruments, appliances, devices & fixtures with star rating as per BEE under Energy Conservation Act, 2003 shall be submitted.
- (xv) Submission of revised calculations RWH pits considering highest hourly rainfall during last 30 years, run off co-efficiency & retention time.

- (xvi) Solar power generation with locations & it's utilization shall be submitted.
- (xvii) Permission of State Government for establishment of 1050 bedded hospital with medical college be submitted.

**ITEM NO. 02**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. RIVER FRONT DEVELOPERS PVT. LTD. FOR PROPOSED RESIDENTIAL PROJECT OVER REVENUE PLOT NO. 33(P) & 32(P) OVER AN BUILT-UP AREA OF 32451.07 M<sup>2</sup> AT MOUZA BIDYADHARPUR, UNDER SECTOR-11, CUTTACK SADAR, TAHASIL – BARANG, DIST – CUTTACK OF SRI MANOJ KUMAR SAHOO – EC**

1. This is a proposal of Residential Project [2B+S+G+19 Floors (Block-1) and S+3 Floors + Part Terrace Floor (Block-2) with Community Centre] over Revenue Plot No. 33(P) & 32(P) at Mouza Bidyadharpur under Sector-11, Cuttack Sadar, Odisha of M/s. River Front Developers Pvt. Ltd.
2. The project falls under category “B” or activity 8 (a)-Building & Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. M/s River Front Developers Pvt. Ltd. has obtained the land possession about 1.208 Acres. Proposed Built-up area:-32451.07 m<sup>2</sup> (with basement) and Total Built-up Area-27317.1 m<sup>2</sup> (without basement).
4. At present the land is a barren land. The land has been earmarked for construction of residential building as per Plan approved by Cuttack Municipal Corporation.
5. Existing road & railway facility shall be utilized. The site is located close to Cuttack-Naraj-Athagarh Road which connects to Ring Road at Subhash Chandra Bose Square, the Ring Road then connects to NH-5 at Link Road Square (covering a total of 10.5 km by road). The site is approximately 12 km (by road) from Cuttack Railway Station. Only internal roads, paths will be developed for vehicular movements for transportation of construction material during construction phase. So, no new road or rail traffic required during construction or operation.
6. As per plan width of abutting Road or Means of Access proposed 30 meters. 03 (three) numbers of main entrance and exit gates of width minimum 06 meters have been proposed in the plan. The width of the main entrance gate shall not be less than 06 mtrs. The main gate shall fold back against the compound wall of the premises. If the main entrance gate is built over, the height of the same shall not be less than 05 meters. Provisions for access to the building fulfil the requirement as per Regulation-30 and 31 of ODA (P&BS) Rules, 2020. Site is approximately 12 km (by road) from Cuttack Railway Station. Biju Pattanaik International Airport is 0.72 km SE, Chandaka RF – 6.19 km (SSW), Nandankanan Zoo – 9.06 km (S)
7. The project falls under seismic zone-III as per IS1893 (Part-1):2002 indicating Moderate to lower damage risk zone. The buildings will be designed as earthquake resistant and comply with the required IS specifications.
8. The project will be developed on the land measuring 4890 Sqmt or 1.208 Ac or 0.488 Ha.

Total Built-up Area – 32451.07 m<sup>2</sup> (with basement),

Total Built-up Area-27317.1 m<sup>2</sup> (without basement)

FSI Area: -24405.10 m<sup>2</sup>

Non FSI Area: - 8045.97 m<sup>2</sup>

Area considered for block 01 for ground coverage=1621.40 sqm

Area considered for block 02 for ground coverage=308.79 sqm

Total ground coverage area = 1930.19 sqm

Total ground coverage in percentage = 39.47 %

Total parking area provided = (25.59 %) of the far area

No. Of blocks = 2

No. Of floors = block 01 (2 basement + lower ground floor + stilt/upper ground floor + 19 floors)

Block 02 (stilt+3 floors+ part terrace floor),

No. Of dwelling units = 180,

Block 01 Wing-a = 90 flats (4 bhk duplex - 4 nos, 3bhk - 68 nos, 2bhk - 18 nos)

Wing-b = 90 flats (4 bhk duplex - 4 nos, 3bhk - 68 nos, 2bhk - 18 nos)

Block 02 Community Centre with Roof-Top Swimming Pool Required Society Area For 180 Units - 180 Sqm Society Area Provided

In Wing-A Of Block 01 = 94.52 Sqm

Society area provided

In wing-b of block 01 = 96.14 sqm

Total area of society room provided - 190.66 sqm

9. Operational Power for Proposed 2B+(S+G)+19 Multi Storied Residential Apartment Building Plan of M/S River Front Developers Pvt. Ltd., Bhubaneswar over Plot No.:-11-4-6H/1472(P) corresponding to Revenue Plot No. 33(P) & 32(P) of Mouza- Bidyadharpur under Sector 11. Maximum Demand in KW = 1270 KW Or 1411.11 [KVA @ 0.9](#) PF. DG SELECTED=1 no of 500KVA DG sets. Recommended Transformer Capacity= 1500 KVA (500 KVA x 3), 11/0.4 KV Sub-Station with Three Numbers Transformers of 500 KVA Rating. Source is TPCODL (TP CENTRAL ODISHA DISTRIBUTION LIMITED)

## 10. Water Requirement and management

### i) During Construction Stage

For major construction activities daily requirement of water will be 5.0 m<sup>3</sup> (peak demand) per day. Water consumption for the Non-resident laborers will be 50 @ 45 lpcd = 2,250 liters. Water consumption for the resident laborers will be 20 @ 70 lpcd = 1,400 liters. Therefore, during the construction phase, total daily water requirement will be 5000 liters + 2250 liters + 1400 liters = 8650 liters = 8.65 m<sup>3</sup>/day or say 10 KLD. This will be sourced by Private tankers.

## ii) During Operation Stage

During operation phase water will be sourced from Public Health Department

Total Fresh Water requirement is 89 m<sup>3</sup>/day.

Total Flushing Water requirement is 45 m<sup>3</sup>/day.

Total Water requirement is 134 m<sup>3</sup>/day (fresh water + flushing water).

Waste water generate is 107 m<sup>3</sup>/day.

Treated water recovered is 86 m<sup>3</sup>/day

Reuses of treated water 86 m<sup>3</sup>/day (during Dry Season) and during monsoon season 20 m<sup>3</sup>/day of surplus treated waste water discharge to

### 11. Greenbelt:

- a) The site comprises of approx. 1191.81 sqm of land as a green belt with open space and does not support any ecologically threatened vegetation. However, a multi-layered peripheral greenbelt of native plant species will be developed, which will enhance the aesthetic value of the region and also provide an excellent habitat for various faunal groups.
- b) Total green and open area measures 1191.81 sqm (approx. 24.37% of total area). Trees like Azadirachta indica, Cassia fistula, Terminalia arjuna, Butea monospermic etc. and flowering and ornamental plants have been proposed to be planted inside the premises. Parks will also be developed by the management. The suggested plant species consisting of large trees, small trees and green lands will be planted.

12. The solid waste of the institutional block will be segregated into biodegradable waste and non-biodegradable. Biodegradable waste and non-biodegradable waste will be collected in separate bins. The MSW and recyclable wastes will be handed over to Govt. authorized agency. Proper guidelines for segregation, collection and storage will be prepared as per Municipal Solid Wastes (Management and Handling) Rules, 2000 and amended Rules, 2016. During the operation phase, waste will comprise domestic waste. The solid waste generated from the project shall be mainly MSW (Municipal solid waste) approx. 445.5 kg/day, Following arrangements shall made at the site in accordance to Municipal Solid Wastes (Management and Handling) Rules, 2000 and amended Rules, 2016. The total biodegradable solid waste will be 297 kg/day and total non-biodegradable solid waste will be 149 kg/day. This will be collected in separate coloured bins. Proper waste management practices will be adopted during the collection, storage and disposal of the generated solid waste and construction and demolition waste.

### 13. Solar Panel sizing (in KW) and Solar Power Generation:

Total Solar Panel to be installed - 5% of the total load i.e. 854KW x 5% = 63.5 KW or say 65 KW (260 Panel of 250Watts Each)

Normaly Energy Generation by 1 KW of Solar Panel per year is :

No of Days per year (365) x No of Sun Hours per day (10) x Number of Sunny Days (40%)

= 365 x 10 x 0.4 = 1460 KWH Per Year per KW of Solar Panel  
Therefore Solar Energy Generated Energy per year is  
65 KW x 1460 KWH = 94,900 KWH per year.

**14. The total project cost is ` 62.32 Cr. EMP Cost: Capital Cost: ` 69.7 Lakh & Recurring Cost=3.1 (In lacs)**

**15. The Environment consultant M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of the sub-committee of SEAC.

- (i) "Kissam" of the land is found to be other than "Gharabari" as per the documents submitted by the PP. As such, it needs to be converted to "Gharabari" before start of the construction work.
- (ii) Fresh water requirement is stated to be 90 KLD & the source is Ground water. Kathajodi River located at a distance of about 620 mtrs from the project site. If it is denied / not agreed to by the authority (s) concerned, then necessary 'NOC' from CGWA & permission from W.R deptt, Govt of Odisha to be submitted for drawl of required quantity of ground water.
- (iii) Provision of parking for 195 ECS is too inadequate for 180 dwelling units, besides necessity for provision for parking for two wheelers / Bicycles including for minimum 10% for visitors / floating population. This needs to be revisited and re-submitted accordingly.
- (iv) Calculation of RWHP (No of recharging pits) be revisited, taking into consideration the highest hourly rain fall based on last 30 years date (logical climate date), Run-off co-efficient and retention (hold) time and re-submitted.
- (v) Capacity of STP with quantity of input to STP be indicated.
- (vi) To confirm that the output discharge from STP shall not be discharged to the public drain and the re-use of the same (details with estimated calculation) be submitted.
- (vii) Fire Tender Corridor with dimension be indicated & shown in the layout map.
- (viii) Proposed green belt details with stretch / dimension / trees of plantation & the species be submitted.



### **ITEM NO. 03**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S HINDUSTAN MINERALS INDUSTRIES FOR BAD AGULA DECORATIVE STONE MINES OVER AN AREA OF 12.019 HA IN VILLAGE: BAD AGULA, TAHASIL: MUNIGUDA, DIST - RAYAGADA, ODISHA (SUBMITTED UNDER CLUSTER APPROACH - TOTAL AREA UNDER CLUSTER - 28.15 HA) OF SRI HEMANTA KUMAR ROUT – EC.**

- 1. Bad-agula decorative stone mines cluster over a total area of 28.15 Ha include two decorative stone mines i.e. Bad-agula decorative stone mines over an area of 12.019 Ha and Bad-agula decorative stone mines over an area of 16.131 Ha belongs to same lessee i.e. M/s Hindustan Minerals industries, Odisha. Both the mines are new mines and this is the first EC proposed for the project**
2. As per EIA notification, 2006 and subsequent amendments the Bad-agula decorative stone mines cluster falls under Schedule SI. No. 1(a) of EIA notification and subsequent amendments the project comes under Category B1. The ToR for preparation of EIA/EMP report of the cluster was approved vide letter no. 9664/SEIAA dated 19.11.2020. This report has been prepared in line with the approved TOR for production of maximum excavation upto 6600 Cu.m and maximum of 2620 cu.m of decorative stone from each of lease area.
3. Department of Steel & Mines, Government of Odisha has issued the Letter of Intent (LoI) Vide Letter No.7606/S&M, Bhubaneswar dated 04.10.2019. The lease period will be 30 years. Mining plan has been approved The Director of Mines, Bhubaneswar Vide Letter No. Mxxii-(A) 6/2019/5163/Dm Dated 29.07.2020 for 12.019 Ha. The cost of the project will be 200 lakhs. Total man power requirement for 12.019 Ha will be 26 nos.
4. Barha Nala is flowing at a distance of 2Km from the project site. Both mines of the cluster is separated by a waste land of 300m distance. The surface runoff water from the Badagula mines 12.019Ha and Badagula mines 16.131 Ha drains through natural slopes and flows through a nearby drain of 1m width which further joins river Vansadhara.
5. The geological and mineable reserve of Bad Agula Decorative Stone Mine 12.019 Ha is 488662cu.m.
6. A total of 24336 cum (in-situ) or 29204 cum swollen (swell factor 1.2 taken) waste/rejects is likely to be generated during the plan period from the cluster of two mines.
7. However, about 70% of the generated waste will be utilized for maintenance and construction of the haul road, approach and existing roads in the surrounding areas periodically and also be disposed of as minor mineral other than decorative stone with the permission of the competent authority.
8. The non-saleable stones of 12168 cum (in-situ) or 14600 cum (swollen) is likely to be generated during the plan period from both the mines.
9. Mining is essentially proposed by opencast and semi mechanized method with the deployment of machines like L/D bore machine, jack hammer drill, compressor, hydraulic excavators & tippers. The decorative stone blocks will be extracted, loaded and transferred

from a quarry face to the stone cutting shop/processing plant/port through trailers/lorries/trucks.

10. About 10 KLD of water will be used for different purpose which will be sourced from Tanker and Rain water harvesting pond. For dust suppression and plantation 3KLD of water will be required for cluster.
11. The EIA/EMP report is based on the data generated from November 2020 to February 2020 by M/s Kalyani Laboratories Private Limited. The study area is confined to 10 km radius of the ML area.
12. The study area within 10 Km of the project site is devoid of any national parks, sanctuaries, Biosphere reserves, wild life corridors, tiger reserves etc.
13. The ground water in the area is found to be 212-215 mRL. However, the mining activity will continue upto a maximum depth of 316 mRL. So the impact of mining activity on ground water does not envisaged.
14. The plantation will be done over an area of 1.711 Ha in the lease boundary and open spaces available. By the end of conceptual period the dumping and stacking area will be covered under plantation
15. The public hearing is for environment clearance of enhancement in production of decorative stone from Bad-agula decorative stone mines cluster over a total area of 28.15 Ha of M/s Hindustan Minerals industries, Odisha for production of Atvill: Bad-agula under Muniguda Tahasil, Rayagada Disrict, Odisha held on 30.09.2021 at 11.00 am in the forest beat situated near Humagunji village under Bad Agula Gram Panchayat of Muniguda Tehsil of Rayagada District.
16. The updated capital cost and recurring cost (per annum) for the environmental facilities for the project works out to 28.5 lakhs and 6.8 lakh / year respectively for the cluster. The social development cost for the cluster in compliance to public hearing has been proposed to be ` 24.0 Lakhs.
17. A comparative feature of both the mines in cluster approach are given below:

<b>Sl. No.</b>	<b>Features</b>	<b>Bada Agula Decorative Stone Mine 12.019 ha.</b>	<b>Bada Agula Decorative Stone Mine 16.131 ha.</b>
i)	Grant of lease	The Department of Steel & Mines, Government of Odisha has issued the letter of Intent (LOI) vide Letter No.7606/S&M, Bhubaneswar dated 04.10.2019 in favoour of M/s Hindustan Minerals Industries.	The Department of Steel & Mines, Government of Odisha has issued the letter of Intent (LOI) vide Letter No.8114/S&M, Bhubaneswar dated 24.10.2019 in favoour of M/s Hindustan Minerals Industries.
ii)	Lease period	30 Years	30 Years
iii)	Mining Plan	Mining Plan was approved by	Mining Plan was approved by

	Approval	the Director of mines, Bhubaneswar vide letter No. MXXII-(a) 6/2019/5163/DM dated 29.07.2020.	the Director of mines, Bhubaneswar vide letter No. MXXII-(a) 7/2019/5186/DM dated 30.07.2020.
iv)	Category of the project	B1 (New Mines) > 5 Ha	
v)	Cost of the project	200 Lakhs	250 Lakhs
vi)	Manpower Requirement	26 Nos	30
vii)	Production Capacity	Decorative Stone: (Lavender Blue) Excavation of Decorative stone – 2620Cum (Max); ROM – 6600 cu.m (Max)	Decorative Stone: (Lavender Blue) Excavation of Decorative stone – 2620Cum (Max); ROM – 6600 cu.m (Max)
viii)	EMP Cost	Capital Cost: 28.5 Lakhs Recurring Cost: 6.8 Lakhs per annum	

18. The Environment consultant **M/s Kalyani Laboratories Pvt. Ltd. Plot No. 78/944, Millenium City, Pahala, Bhubaneswar - 752101** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories Pvt. Ltd. Plot No. 78/944, Millenium City, Pahala, Bhubaneswar - 752101**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent:

- (i) Rain water harvesting calculation and design of the pond proposed thereof be submitted.
- (ii) Though confirmed “Zero discharge” Silt Management with SOP be submitted for periodical de-siltation as a contingency plan / measure.
- (iii) Provision of STP with capacity be confirmed.

#### **ITEM NO. 04**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. HINDUSTAN MINERALS INDUSTRIES FOR BAD AGULA DECORATIVE STONE MINES OVER AN AREA OF 16.131 HA OR 36.86 AC IN VILLAGE: BAD AGAULA, TAHASIL: MUNIGUDA, DIST:- RAYAGADA, ODISHA (SUBMITTED UNDER CLUSTER APPROACH - TOTAL AREA UNDER CLUSTER - 28.15 HA) OF SRI HEMANTA KUMAR ROUT – EC**

1. Bad-agula decorative stone mines cluster over a total area of 28.15 Ha include two decorative stone mines i.e. Bad-agula decorative stone mines over an area of 12.019 Ha and Bad-agula decorative stone mines over an area of 16.131 Ha belongs to same lessee

i.e. M/s Hindustan Minerals industries, Odisha. Both the mines are new mines and this is the first EC proposed for the project.

2. Since, this is a proposal for grant of EC in cluster approach, this has been already covered in the decision at **Item No. 3**.

#### **ITEM NO. 05**

#### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CHANDANPUR DECORATIVE STONE (GRANITE GNEISS) MINES DEPOSIT OVER AN AREA OF 9.696 HA, VILLAGE-CHANDANPUR, TAHASIL: LANJIGARH, DISTRICT: KALAHANDI OF SRI AJAY AGARWAL – EC IN CLUSTER APPROACH.**

1. **The Environment Impact Assessment and Environmental Management Plan of Chandanpur Decorative stone Cluster with total cluster area of 13.298 ha including ML area 9.696 Ha and ML area 3.602 Ha of Lessee – Sri Ajay Kumar Agrawal, address all the environment related issues and is prepared in accordance with the requirements Ministry of Environment and Forest, Govt. of India, EIA notification (2006) and subsequent amendments under cluster approach.**
2. The project comes under Category B1 (>5.0 Ha <100 Ha).
3. The LOI has been issued vide Letter No.7100/S&M, Bhubaneswar dated 02.08.2019 (9.696 Ha) in favour of M/s Jay Minerals. The lease period will be 30 years. The mining plan has been approved vide letter no. MXXII-(a) 8/2020/5435/DM dated 12.08.2020.
4. The cost of the project will be 200 lakhs. Total man power requirement for the cluster will be 14 nos. Production from the mines will be Decorative stone – 4388 Cum (Max); ROM – 14625 cu.m (Max). Average water requirement for mines will be 5 KLD and will be sourced from tanker for domestic purpose and RWH for dust suppression and plantation.
5. The Mining cluster under reference represents an undulating topography comprising of a hill ridge with steep slope. The mine Cluster area of 13.298 Ha is covered in the Survey of India Toposheet No. E44F9. Chandanpur Decorative stone mines of 9.696 Ha is bounded by Latitude- 19°46'46.68"N to 19°46' 59.86"N and Longitude-83°25'47.74"E to 83°26'5.40"E.
6. The highest and lowest elevations of the area are 390mRL in the Central part and 376mRL in the SW part of the M.L area respectively Overall slope of the area is due north west for both the mines in the cluster.
7. The geological and mineable reserve of is 1146595cu.m and 1009000cu.m respectively.
8. A total of 78427 cum (in-situ) waste/rejects is likely to be generated during the plan period from the cluster of two mines.
9. Mining is essentially proposed by opencast and semi mechanized method with the deployment of machines like L/D bore machine, jack hammer drill, compressor, hydraulic excavators & tippers.

10. In the present case the SEIAA, Odisha vide Letter No 297/SEIAA, dated 02.02.2021 has finalized the Terms of Reference (ToR) for undertaking detailed EIA study for the purpose of obtaining environment clearance.
11. The EIA/EMP report is based on the data generated from October 2020 to April 2020 by M/s Kalyani Laboratories Private Limited. The study area is confined to 10 km radius of the ML area.
12. The mining activity is not likely to intersect ground water as the ground water table occurs at 340mRL in summer season and in Rainy season at 350mRL. The mining will go up to the maximum depth of 376mRL. So, there will be no chance of intersecting the ground water table by the mining activity during the conceptual period also. So, the impact of mining on the ground water is not envisaged.
13. The mining lease area does not include any forest land. The ML area and the buffer zone is devoid of any endangered flora and fauna species. The existing vegetation within the ML area includes few shrubs which are sparsely scattered. There is no ecological sensitive areas/ zone located within the 10 Km radius of the proposed cluster.
14. A total of 78427 cum (in-situ) waste/rejects is likely to be generated during the plan period from the cluster of two mines.
15. However, about 70% of the generated waste will be utilized for maintenance and construction of the haul road, approach and existing roads in the surrounding areas periodically and also be disposed of as minor mineral other than decorative stone with the permission of the competent authority.
16. The plantation will be done over an area of 1.295 Ha in the lease boundary and open spaces available. By the end of conceptual period the dumping and stacking area will be covered under plantation.
17. The public hearing in respect of the above project was held on 15.09.2021 as per schedule and the venue in accordance with the EIA notification S.O.1533 (E) dt.14.09.2006.
18. The updated capital cost and recurring cost (per annum) for the environmental facilities for the project works out to 30.5 lakhs and 8.2 lakh / year respectively. The proposed social development cost in compliance to public hearing is proposed to be 19.0 Lakhs.
19. A comparative feature of both the mines in cluster approach are given below:

Sl. No.	Features	Chandanpur Decorative Stone Mine 9.696 ha.	Chandanpur Decorative Stone Mine 3.602 ha.
i)	Grant of lease	The Department of Steel & Mines, Government of Odisha has issued the letter of Intent (LOI) vide Letter No.7100/S&M, Bhubaneswar dated 02.08.2019 in favour of M/s Jay Minerals	The Department of Steel & Mines, Government of Odisha has issued the letter of Intent (LOI) vide Letter No.6606/S&M, Bhubaneswar dated 06.09.2019 in favour of

Sl. No.	Features	Chandanpur Decorative Stone Mine 9.696 ha.	Chandanpur Decorative Stone Mine 3.602 ha.
			M/s Jay Minerals.
ii)	Lease period	30 Years	30 Years
iii)	Mining Plan Approval	Mining Plan was approved by the Director of mines, Bhubaneswar vide letter No. MXXII-(a)8/2020/5435/DM dated 12.08.2020.	Mining Plan was approved by the Director of mines, Bhubaneswar vide letter No. MXXII-(a)9/2020/5439/DM dated 12.08.2020.
iv)	Category of the project	B1 (New Mines) > 5 Ha (Taking Both into cluster situation)	
v)	Cost of the project	₹ 200 Lakhs	₹ 200 Lakhs
vi)	Manpower Requirement	14 Nos	14 Nos.
vii)	Production Capacity	Decorative Stone: (Granite Gneiss) Excavation of Decorative stone – 4388 Cum (Max); ROM – 14625 cu.m (Max)	Decorative Stone: (Granite Gneiss) Excavation of Decorative stone – 2504Cum (Max); ROM – 8346 cu.m (Max)
viii)	EMP Cost	Capital-30.5 Lakh, Recurring-8.2 Lakh	

20. The Environment consultant **M/s Kalyani Laboratories Pvt. Ltd. Plot No. 78/944, Millenium City, Pahala, Bhubaneswar - 752101** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories Pvt. Ltd. Plot No. 78/944, Millenium City, Pahala, Bhubaneswar - 752101**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent:

- (i) Rain water harvesting calculation and design of the pond proposed thereof be submitted.
- (ii) Though confirmed “Zero discharge” Silt Management with SOP be submitted for periodical de-siltation as a contingency plan / measure.
- (iii) Provision of STP with capacity be confirmed.
- (iv) How proponent will provide water for irrigation of Agricultural lands from rain water harvesting pond as committed during public hearing since streams coming out of mines hillock and subsequent irrigation of Agricultural lands will be stopped / Details to be submitted.

## **ITEM NO. 06**

### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CHANDANPUR DECORATIVE STONE MINES OVER AN AREA OF 3.602 HA, VILL- CHANDANPUR, TAHASIL-LANJIGARH, DISTRICT- KALAHANDI OF SRI AJAY AGARWAL – EC**

1. The Environment Impact Assessment and Environmental Management Plan of Chandanpur Decorative stone Cluster with total cluster area of 13.298 ha including ML area 9.696 Ha and ML area 3.602 Ha of Lessee – Sri Ajay Kumar Agrawal, address all the environment related issues and is prepared in accordance with the requirements Ministry of Environment and Forest, Govt. of India, EIA notification (2006) and subsequent amendments under cluster approach.
2. Since, this is a proposal for grant of EC in cluster approach, this has been already covered in the decision at **Item No. 5.**

## **ITEM NO. 07**

### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR BURJANGO SAND QUARRY OVER AN AREA 9.227 HA. OR 22.80 ACRES IN VILLAGE- BURJANGO, TAHASIL RAYAGADA, DISTRICT- GAJAPATI OF SMT. ANITA MAHANKUDO – EC**

1. Burjango Sand Bed Mining is located on Dry River Bed of Mahendra Tanaya at Village- Burjango, Tahasil- Rayagada, District - Gajapati, State-Odisha over an area of 9.227 Ha or 22.80 acres.
2. The project has been proposed by Anita Mahankudo. The Letter of intent has been issued vide letter no– 1322 on dated 20.06.2020 by Tehsildar, Rayagada for a period of five years. The mining Plan has been approved by Directorate of Geology South Zone; Berhampur vide letter no. 832 (2)/ SZ dated- 25.06.2020. The proposed production is 2,080 cum per annum. The estimated project cost is ` 30 Lakhs. As per EIA notification 2006 and its subsequent amendment thereof proposed project fall in category B1.
3. **Location:** Khata no. 492, Plot No. 2513/2612, Village- Burjango, Tahasil- Rayagada, District-Gajapati, State-Odisha
4. **Site Coordinates:** The Latitude: 18°53'05.80" to 18°53'24.62" N and Longitude: 84°08'37.24" to 84°08'49.76" E.
5. Proposed Production – 2,080 cum per annum of Sand.
6. **Connectivity/ Sensitivity:** Railway Station – Paralakhemundi railway station at a distance of 15 Km in SW direction. Airport - Biju Pattnaik International Airport, Bhubaneswar, 230 km towards NE direction. Road- National Highway is at NH-5 at a distance of 55 km in West Direction. SH-34 is at a distance of 3.5 km in North direction.
7. Burujanga village is 0.2 km from the proposed area in North direction, Paralakhemundi is 15 km from the proposed area in SW direction.
8. Project site lies on dry river bed of Mahendra Tanaya

9. Barlanda RF, approx 1.10 km towards SW direction.

## 10. BASIC REQUIREMENTS FOR THE PROJECT

- a) **Manpower:** About 7 persons will be given employment to the people of nearby villages.
  - b) **Water:** There is requirement of approx. 3.0 KLD water for this project. 0.1 KLD will be for drinking/domestic purpose which will be abstracted from old ground water source. For other purpose water will be taken from mine.
11. The sand will be excavated by open cast manual method without deploying heavy machinery. Mining will be carried out by using handpicks, spade, hand shovel will be used by laborers for extracting & loading of sand. There is a road bridge in mining lease area. Mining will be carried out after leaving safety barrier of approx. 200m upstream & downstream of the bridge. No mining zone of approx. 2.023 ha will be left.
  12. Mining will be carried out by scientific method as per approved Mining Plan, only up to 0.5 m depth.
  13. This is RBM project not involving waste generation. The sand is directly loaded in trucks/trolleys etc. and sent to markets. Thus, no waste dump sites are needed to such projects.
  14. Baseline data on ambient air quality, water quality, noise level, soil, flora and fauna Site-specific meteorological data have been collected for post- monsoon season during October, 2020 to December, 2020.
  15. The public hearing has been conducted on 27.08.2021 at (11.00 A.M) at Gram Panchayat office of Burjango village under Rayagada Samiti of Gajapati District.
  16. During public hearing all the villagers were demanded the following:
    - For engagement of local labours in the project.
    - They strongly opposed the use of machineries.
    - They also concerned about chances of accident due to transportation through vehicles & questioned on responsibility of such incidences
    - Questioned on utilization of fund for their Gram Panchayat.
    - They also asked about benefits of projects to villagers.
  17. Mine manager ensure that mining will be by manual method without use of heavy machineries. Employment opportunity will be provided to the local villagers. Transportation route & vehicle will be regularly maintained by PP to reduce the chances of accident. Beside this PP will do development works in village under CER budget
  18. Plantation will be done in mining lease haul road. About 620 numbers of trees will be planted along approach road in the first year & at other place after consultation with the local authorities at 2-2 meters.
  19. Estimated cost of the project is ` 30 lakh.

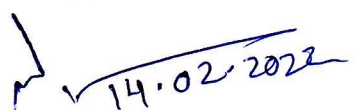


20. About 2% of the project cost will be used for the development of the social infrastructure of the area.
21. About Rs. 3.4 lakhs (Capital), ₹ 3.8 lakhs (recurring)
22. The project will prove beneficial to the people as the company has already agreed to provide infrastructural facilities to the villagers like educational facilities, medical facilities, Transportation facilities, water supply etc. which will improve the socio-economic environment of the area.
23. The Environment consultant **M/s P&M Solution, C-88, Sector 65, Noida** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s P&M Solution, C-88, Sector 65, Noida**, the SEAC decided to take decision on the proposal after receipt of the following from the proponent:

- a) Since, the lease boundary is at a distance of 200 meters from the bridge (both sides of the bridge), the mining plan be revised and re-submitted as per para 4.3 of Enforcement & Monitoring Guidelines for Sand Mining, January, 2020 of MoEF&CC, Govt. of India including indicating the width of the river, distance of river bank / embankment from the lease boundary etc.

  
Secretary, SEAC

Approved  
  
Chairman, SEAC