

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 08th SEPTEMBER, 2020**

The SEAC met on 08th September, 2020 at 11:00 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. Prof (Dr.) H. B. Sahu	-	Member
3. Dr. D. Swain	-	Member
4. Prof. (Dr.) P.K. Mohanty	-	Member
5. Sri. J. K. Mahapatra	-	Member
6. Sri. K. R. Acharya	-	Member
7. Prof.(Dr.) B.K. Satpathy	-	Member
8. Dr. Sailabala Padhi	-	Member
9. Dr. K.C.S Panigrahi	-	Member

The agenda-wise proceedings and recommendations of the committee are detailed below.

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF 100 SEATED NEW GOVT. MEDICAL COLLEGE OVER AN AREA 26.24 ACRES AT BHANGABARI, MOUZA-BHANGABARI, BHAWANIPATNA, DISTRICT - KALAHANDI OF CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER; MR. JAJULAL AGRAWAL WITH BUILT UP AREA 72,165 M² – EC.

1. This is a proposal for Environmental Clearance for Construction of 100 seated New Govt. Medical College over an area 26.24 Acres at Bhangabari, Mouza-Bhangabari, Bhawanipatna, District - Kalahandi of Chief District Medical & Public Health Officer; Mr. Jajulal Agrawal
2. The Director Medical Education & Training (DME & T), Govt. Of Odisha through the Chief District Medical Officer & Public Health Officer (Project Proponent), Kalahandi has proposed to establish a '100 seated New Govt. Medical College' at Bhangabari, Mouza- Bhangabari, PO- Uditnarayanpur, Bhawanipatna, District- Kalahandi, Odisha.
3. The proposed project will be developed by Tata Projects Limited. The college will have hostel facility for providing accommodation to nurses, girls and boys students in the campus.
4. The project falls under Category "B", Project or Activity 8 (a) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.
5. The site is located on a Govt. land measuring 106189.51 Sq.mt / 26.24 Acres on revenue Plot Nos.- 437, 438, 443,444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461,462, 464, 465, 466, 470, 472, 473,475, 477, 479, 700/1280, 461/1281, 446/1284, Khata No.137 at Mouza- Bhangabari, Po - Uditnarayanpur, Bhawanipatna, District- Kalahandi, Odisha.
6. The Geographical co-ordinate of the project site is: Latitude: 19°55'46.80"N Longitude: 83°08'49.20"E covering in Topo Sheet No. E44F1 & F44X4. with an average altitude of 244 m above MSL . A 33 m road abuts site in North direction which connects it to SH-16 in East direction at 200 m. Nearest Railway line is connecting from Junagarh – Kathajanipadar is 0.2 km to the Project Site. The nearest railway station is located at Bhawanipatna RS which is 1.3 km.

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7. Bhawanipatna is major town at a distance of 2.9 km. The National Highway (NH-201) connecting Bhawanipatna – Borigumma is located at a distance of about 2.8 km. The State Highway (SH-52) connecting Bhawanipatna – Dharmagarh is located at a distance of about 2.5 km. The State Highway (SH-16) connecting Bhawanipatna – Khariar is located at 0.2km to the Project Site. The State Highway (SH- 6) connecting Bhawanipatna – Badchiching is located at a distance of about 2.6 km in SE.
8. Nearest wild life sanctuaries, national parks, elephant/tiger reserves - Karlapat Wild Life Sanctuary - 4.4 km (Project boundary to wildlife sanctuary boundary) and 15 km by road from Bhawanipatna. Nearest Reserve Forest is Dhangra Dhangri – 3.3 km. Nearest nala is Pipale Nala – 0.1km & Bulat Nala – 1.1 km
9. Nearest Settlement from the Project Site is Bhangabari 0.5 km from project site.
10. The Project has received Building permission approved by Office of The Special Planning Authority, Bhawanipatna vide letter No.IB-105/19 509/BPTSPA dated 18.03.2020.
11. Total land area of the project is 26.24 Ac. Total Built Up Area: 72,165 m². The project will involve development of academic blocks of S+3 floors (4 Nos.), S+4 floors (3 Nos.), S+5 floors (3 Nos.), S+6 floors (2 Nos.), auditorium (G+1), hostel, staff quarters, doctor's room and services.
12. The Detailed Area Statement of the project is mentioned in the table:

SI. NO.	PARTICULARS	AREA
1.	Total Site Area	34.98 Ac.
2.	Area for Teaching Hospital (EC granted)	8.74 Ac.
3.	Area for Medical College	26.24 Ac.
4.	Total Built up Area	72165m ²
5.	FAR Achieved = 0.68	
6.	Total Ground Coverage (i.e. 16.96 % of Plot Area)	18012.02m ²
7.	Parking Provided (i.e. 30.10 % of Total BUA)	21721.66m ²
8.	Total Green Belt Space (Provided) (i.e. 36.96 % of Plot Area)	39252.08m ²
9.	Common Facilities and Amenities (Provided) (i.e. 5.79 % of Plot Area)	6153.16m ²
10.	No. of Trees provided	1460

13. **Total Water Requirement:** 433 KLD, which will be sourced from borewell. Domestic water requirement is 289 KLD. Fresh water requirement is 186 KLD. Wastewater Generation is 250 KLD. The wastewater will be treated in STP of 260 KLD capacity. Treated waste water is 247 KLD which will be reuse for flushing, landscape, filter backwash and HVAC Makeup.
14. **Power Requirement:** 1663.44 KW which will be sourced from WESCO. Standby Power through DG Sets - 3X625 kVA +1 X 125 kVA. 2 x 100kWp Grid connected Solar Power Plant connected at Academic Block. Solar Power will contribute 10% of total power demand.
15. **Solid Waste generation:** Total solid waste is 1617kg/day, out of which 1575 Kg/day @ 0.5 kg/day/person domestic waste, 2 kg/day is Horticulture waste and STP sludge is 40 kg/day. The organic waste is 970kg/day treated in organic waste converter and inorganic waste is 162 kg/day will be collected and stored separately. Bio-medical waste is 10 kg/day from academic block. The same will be handed over to local body for final disposal.
16. Rain Water will be harvested through 1 no. of recharging pits.

17. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).
18. **Parking space** is 21721.66m² has been provided i.e. 30.10 % of Total BUA.
19. The total green area provided for the project is around 39252.08m² i.e, approximate 36.96% of total plot area.
20. The total estimated population of the project will be 3150 persons.
21. The project cost is 220.74 Crores and is expected to be completed within a span of 24 months.
22. The Environment consultant **M/s P and M Solutions Ltd. Noida** along with the proponent made a presentation on the proposal before the Committee.
23. The proponent intimated that this is a proposal of medical college without hospital facility and it will come under exemption category as per EIA notification 2006 and amendment thereafter as built up area is less than 1,50,000 m² and coming under educational institution.
24. The SEAC opined that the proponent should give an undertaking inform of legal affidavit that they will not establish any hospital facility in future and the present proposal is for medical college only to get such exemption as per EIA notification, 2006 and amendment thereafter.

Considering the information / documents furnished by the proponent and presentation made by the consultant, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent.

- (i) An undertaking in form of legal affidavit that the project proponent will not establish any hospital facility and the present proposal is for medical college only to get exemption as per EIA notification, 2006 and amendment thereafter.
- (ii) It shall be clarified whether hospital area over 8.74 acres for which EC has been granted is in the separate campus or in the same campus and EC applied for over 26.24 acres is for medical college.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR BHAGABANPUR DECORATIVE STONE DEPOSIT OVER AN AREA OF 17.547 HA. FOR PRODUCTION OF DECORATIVE STONE @ 6,000 CUM / ANNUM IN VILLAGE BHAGABANPUR UNDER TAHASIL - KUKUDAKHANDI OF DISTRICT - GANJAM OF SRI SOBHAN KUMAR MAHAPATRA - TOR

1. The proposal was considered by the committee to determine 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 and amendment thereafter.
2. The proposed mining project is for Bhagabanpur Decorative Stone Deposit over an area of 17.547 Ha. for production of Decorative Stone @ 6,000 cum / annum in village Bhagabanpur under Tahasil - Kukudakhandi of District - Ganjam of Sri Sobhan Kumar Mahapatra
3. The Bhagabanpur Decorative Stone Deposit over 43.36 acres or 17.547 Ha in village Bhagabanpur under Kukudakhandi Tahasil of Ganjam District, Odisha has been

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conditionally granted in favor of Sri Sobhan Kumar Mahapatra, Shreenagar Street, 2nd Line, Chatrapur, Ganjam for 30 years by Directorate of Mines, Govt. of Odisha vide terms & conditions letter No 6556/IV(DS)SM-02/2010/S&M, Bhubaneswar dated 05.09.2019.

4. The mining lease area is located in Village Bhagabanpur under Kukudakhandi Tahasil of Ganjam District, Odisha and is on Khata No. 215, Plot No. 10, Kissam - Parbat (Abada Ajogya Anabadi) covers under Toposheet No: E45A11 (74A/11). It is bounded by latitude $19^{\circ}19'50.70''$ to $19^{\circ}20'05.63''$ N and longitude $84^{\circ}42'56.28''$ to $84^{\circ}43'15.50''$ E. Nearest railway station is Berhampur, 11 km away. Nearest airport is Bhubaneswar, 160 km away. Nearest town is Berhampur, 11 km away. Nearest habitation 1.5km away. Medical facilities are available at Kukudakhandi which is about 9km. Nearest Reserve forest is Ramagurha 1km from please area.
5. The ML area exhibits hilly terrain. The entire area is a small Hillock. The general elevation of the ML area ranges from 70m to 185 m AMSL. The overall slope of the hill is towards north-south side of the area. The area is partly overlain by boulders mixed with soil. There is no forest land within the applied mining lease area. No seasonal and perennial nala flows across the ML area.
6. The Mining Plan prepared under Rule – 15 of Granite Conservation & Development Rules, 1999 along with Progressive Mine Closure Plan under Orissa Minor Mineral Concession Rules, 2016 was duly approved by Director of Mines, GoO vide letter no. 1356/DM dated 15.02.2020.
7. The applied mining lease area is a part of the Eastern Ghat Super Group of Archean Deposit of the decorative stone in Odisha. The major rock types are granite, granite gneiss, granitiferous granite geiss, charnockite, khondalite (Quartz-garnet-sillimanite & Schists/gneiss) etc. Decorative stones predominantly constitute quartz, feldspars, pyroxenes, amphiboles, garnets & biotite etc. The applicant intend to mine Charnockite and Granite Gneiss as Decorative Stone.
8. Mining will be carried out in Opencast semi-mechanised method using machineries like Excavator, Line Offset, Compressor, Jack-hammer, Wire ropes, drill rods etc. The height and width of the quarry benches shall be kept at 3 mtr. Mining operation shall be carried out in single shift basis. Handling and loading of different sized blocks to stock yard will be done by hydraulic excavator. Excavator and rear dump truck combination will remove the rejected blocks or mine waste from quarry face to dump yard. Sizing & shaping the block is done by using the chisels, hammers to give the blocks the final dimensions. Transportation of marketable decorative stone block will be done by trailers/lorries/trucks to the respective destinations.
9. It is proposed to excavate 30000 Cum of ROM per annum out of which 6000 Cum shall be Marketable rock and 24000 Cum will be waste in nature. Total mineable reserve as estimated to be 1248940 Cum of Charnockite and Garnetiferous granite. The life of the mine will be 203 years based on the present reserve estimation as per the approved mine plan. An area of 0.067 ha is earmakred for storage of minerals. An area of 0.680 ha is earmarked for storage of waste. 24000 Cum of waste shall be generated per annum. 40% of the total waste generated during the plan period shall be used for road making and maintenance.
10. Power Requirement - 225 KVA shall be required which shall be met through DG Set.
11. Water Requirement - 2KLD of water shall be required which will be sourced from nearby villages.

12. Plantation – Total no. of trees to be planted is 440 in proposed project over an area of 2750m²
13. Employment Potential: Total number of employee will be around 30 which includes skilled, semi-skilled & unskilled category in the mine.
14. The project cost is ₹ 3.50 Crores.
15. The Environment consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** along with the proponent have made a detailed presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Certificate from the concerned mining officer about the other mines located within 500 meter from the periphery of the mine.
- (ii) Proposal of shifting of dump to deepest side of lease area to prevent silting during monsoon period.
- (iii) No mining activity should be done near to reserve forest which is 1km away.
- (iv) Slope study report to be submitted through an expert of repute both for mines and dump.
- (v) Details of waste management, material balance including haulage road dimensions, bench design and slope i.e. length, width, starting point, end point, bench design and slope of the dump.
- (vi) Details of storm water management and surface water management.
- (vii) Details of DG set capacities and place of installation with justification of installation of 225 kVA DG set.
- (viii) Year wise details of waste/OB, waste disposal (to whom and where) and waste inventory including generated and place of storage with layout.
- (ix) Details of land use and land cover.
- (x) Justification how the 80% of waste will be stored in 5% of total lease area and justification how the dump is temporary in nature as stated by the proponent.
- (xi) Details of post mining activities with reclamation plan to be submitted.
- (xii) Details of retaining wall design and Garland drain with layout be submitted.
- (xiii) Traffic study of vehicles engaged for transportation of minerals/OB and empty vehicles for the purpose in the lease area as well as public road where the haulage roads meet

ITEM NO. 03

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR TUMBEKELA SAND BED “B” MINES ON RIVER BHEDAN OVER AN AREA OF 6.070HA./15ACRES IN VILLAGE-KHERUAL, UNDER TAHASIL-JHARSUGUDA, OF DISTRICT-JHARSUGUDA OF SRI AMAN SHARMA - TOR

1. The proposal was considered by the committee to determine 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 and amendment thereafter.

2. The proposed mining project is for river bed sand mining on Bheden River at village Kherual, under Tahasil - Jharsuguda, in Dist-Jharsuguda, Odisha, over an area of 6.070Ha or 15 Acres of Sri Aman Sharma.
3. The quarry lease has been proposed to be granted by the Tahasil - Jharsuguda to the applicant Sri Aman Sharma for minor mineral (River Sand) from 2018-19 to 2022-23 vide letter no.1158 / Dt.07.03.2018
4. Mining plan has been approved by by the Director of Geology, Sambalpur, Odisha vide memo no.1934/ZS on dated 21.08.2018
5. As per EIA notification 2006 and subsequent amendment the proposal is coming under category 'B2' at par with Cat. B1 and requires environmental clearance.
6. The lease area is located in village - Kherual, Tahasil - Jharsuguda, in Dist-Jharsuguda, Odisha bearing Khata No.-1, Plot No.-737(P), KISSAM: Jalabhandar present in survey of India toposheet no. F45M1& between latitude of 21°47'23.85" N to 21°47'40.43" N & Longitude:84°00'38.62"E to 84°00'49.72"E. Nearest Railway station is Jharsuguda Railway station at a distance of 05 Km from the project site. The nearest road is Siripura Road located at a distance of 1.5 Km. The site is well connected to NH-200 at a distance of 5Km & SH10 at a distance of 300m. Nearest airport is Jharsuguda airport at a distance of 21Km from the mining lease area.
7. Out of the total area of 6.070Ha, 1.810 Ha areas will be under excavation, 3.242 Ha will be used for miscellaneous purposes & 1.018 Ha areas dedicated for safety zone/plantation.
8. The method of mining will be open cast manual method. The quarry will be worked for five years. The average proposed rate of production is maximum up to 7360 Cu.m per annum (In five years, total production will be 36000Cu.m).
9. Water requirement for the project will be 3KLD. Domestic water requirement will be 1 KLD, water requirement for Green belt development and dust suppression will be 2 KLD.
10. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes. Tipper & Dumper will be used for transportation. So the approximate quantity of the fuel/Diesel used per day is 100Lit/day.
11. Employment potential - Due to the proposed sand mining, there will be generation of employment for 10 persons. Out of which, 2nos are skilled, 2nos are semi skilled, 5nos are unskilled & one supervisor.
12. Total cost of the project will be 3 Lakhs.
13. The project proponent along with the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Certificate from the concerned Tahasildar about the geo coordinates and distance of the Bridge from the boundary of the lease area and other mines located within 500 meter from the periphery of the lease boundary.
- (ii) Distance of inter-State boundary duly authenticated by the concerned Tahasildar.

- (iii) Details of river embankment protection management including it's distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, SH – 10, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.

ITEM NO. 04

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR LUHURENKACHHAR SAND BED "C" MINES ON RIVER BHEDAN OVER AN AREA OF 6.070HA./15ACRES IN VILLAGE - LUHURENKACHHAR, UNDER TAHASIL - JHARSUGUDA, OF DISTRICT - JHARSUGUDA OF SRI MUKESH KUMAR SHARMA – TOR

1. The proposal was considered by the committee to determine 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 and amendment thereafter.
2. The proposed mining project is for river bed sand mining on Bheden River at village Luhurenkachhar, under Tahasil - Jharsuguda, in Dist-Jharsuguda, Odisha, over an area of 6.070Ha or 15 Acres of Sri Mukesh Kumar Sharma.
3. The quarry lease has been proposed to be granted by the Tahasil - Jharsuguda to the applicant Sri Mukesh Kumar Sharma for minor mineral (River Sand) from 2018-19 to 2022-23 vide letter no.5266 / Dt.22.11.2017
4. Mining plan has been approved by by the Director of Geology, Sambalpur, Odisha vide memo no.1937/ZS on dated 21.08.2018
5. As per EIA notification 2006 and subsequent amendment the proposal is coming under category 'B2'at par with Cat. B1 and requires environmental clearance.
6. The lease area is located in Khata No.-5, Plot No.-1(P), Kissam: Nadi comes under Survey of India toposheet no. F44R13 & between latitude of 21°45'03.60" N to 21°45'14.12" N & Longitude:83°59'08.88"E to 83°59'28.25"E. Nearest Railway station is Jharsuguda Railway station at a distance of 10 Km from the project site. The nearest road is Patrapali Road located at a distance of 1Km. The site is well connected to NH-200 at a distance of 10Km & SH10 at a distance of 2km. Nearest airport is Jharsuguda airport at a distance of 21Km from the mining lease area.
7. Out of the total area of 6.070Ha, 2.044 Ha areas will be under excavation, 2.985 Ha will be used for miscellaneous purposes & 1.041 Ha areas dedicated for safety zone/plantation.

8. The method of mining will be open cast manual method. The quarry will be worked for five years. The average proposed rate of production is maximum up to 9310 Cu.m per annum (in five years, total production will be 45850Cu.m).
9. Water requirement for the project will be 3KLD. Domestic water requirement will be 1 KLD, water requirement for Green belt development and dust suppression will be 2 KLD.
10. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes. Tipper & Dumper will be used for transportation. So the approximate quantity of the fuel/Diesel used per day is 100Lit/day.
11. Employment potential - Due to the proposed sand mining, there will be generation of employment for 12 persons. Out of which, 2nos are skilled, 2nos are semi-skilled, 7nos are unskilled & one supervisor
12. Total cost of the project will be 3 Lakhs.
13. The project proponent along with the consultant **M/s Kalyani Laboratories (Pvt.) Ltd. Pahala, Bhubaneswar** made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Certificate from the concerned Tahasildar about the geo coordinates and distance of the Bridge from the boundary of the lease area and other mines located within 500 meter from the periphery of the lease boundary.
- (ii) Distance of inter-State boundary duly authenticated by the concerned Tahasildar.
- (iii) Details of river embankment protection management including it's distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, SH – 10, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.

ITEM NO. 05

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CHHUIPALI SAND QUARRY ON RIVER KELO OVER AN AREA OF 5.90HA./14.58ACRES IN VILLAGE-CHHUIPALI, UNDER TAHASIL - LAKHANPUR, OF DISTRICT-JHARSUGUDA OF M/S. BALAJI ENGICONS PVT. LTD. -TOR

1. The proposal was considered by the committee to determine 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 and amendment thereafter.
2. The proposed mining project is for river bed sand mining on Kelo River at village Chhuipali, under Tahasil - Lakhanpur, in Dist - Jharsuguda, Odisha, over an area of 5.90Ha or 14.85 Acres of M/s. Balaji Engicons Pvt. Ltd.
3. The quarry lease has been proposed to be granted by the Tahasil - Lakhanpur to the applicant M/s. Balaji Engicons Pvt. Ltd. for minor mineral (River Sand) for 5 years vide letter 103 on dated 08.01.18.
4. Mining plan has been approved by by the Director of Geology, Sambalpur, Odisha vide letter no.1271/ZS on dated 17.05.2018
5. As per EIA notification 2006 and subsequent amendment the proposal is coming under category 'B2'at par with Cat. B1 and requires environmental clearance.
6. The lease area is located in Mouza- Chhuipali, Khata No. 1 and Plot No. 580, 106/829, 106/828, 594/832 and Kissam - Jalabhandar (waste-land) comes under Survey of India toposheet no. (64O/9) & between latitude of 21°46'33.86" N to 21°46'55.00"N & Longitude: 83° 32' 57.13"E to 83°33'10.19"E. Nearest Railway station is Raigarh Railway station at a distance of 20 Km from the project site. The site is well connected to NH-200 at a distance of 1.2Km. Nearest airport is Jharsuguda airport at a distance of 68Km from the mining lease area. The lease area is located at a distance of about 4.5 Km from the Hirakud Reservoir and at a distance of about 2.7 Km from interstate boundary of Odisha and Chattishgarh. Debrigarh Sanctuary is located at 8km away. Jhargan Reserve forest is 1km away.
7. Out of the total area of 5.90Ha, 4.55 Ha areas will be under excavation, 0.35 Ha will be used for approach road & 1.0 Ha areas dedicated for safety zone/plantation.
8. The method of mining will be open cast manual method. The quarry will be worked for five years. The total mineable reserve is estimated to be 68,283m³ and it is planned to produce a maximum quantity of 13,659m³ of sand per annum.
9. Water requirement for the project will be 3KLD. Domestic water requirement will be 1 KLD, water requirement for Green belt development and dust suppression will be 2 KLD.
10. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes. Tipper & Dumper will be used for transportation. So the approximate quantity of the fuel/Diesel used per day is 100Lit/day.
11. Employment potential - Due to the proposed sand mining, there will be generation of employment for 12 persons. . Out of the total employment, 1nos are skilled, 2nos are semi skilled 8nos are unskilled & 1nos of operators & helpers
12. Total cost of the project will be ₹ 3 Lakhs.

13. The project proponent along with the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Certificate from the concerned Tahasildar about the geo coordinates and distance of the Bridge from the boundary of the lease area and other mines located within 500 meter from the periphery of the lease boundary.
- (ii) Distance of inter-State boundary duly authenticated by the concerned Tahasildar.
- (iii) Details of river embankment protection management including it's distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, SH – 10, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Cluster approach to be taken for EMP.
- (xii) Justification how Hirakud reservoir will not be affected by sand mining.
- (xiii) Distance of Kelo River from Hirakud reservoir.
- (xiv) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.

ITEM NO. 06

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR BHAGABANPUR DECORATIVE STONE MINES OVER AN AREA 2.124 HA. AT VILLAGE-BHAGABANPUR, TAHASIL-KUKUDAKHANDI, DIST-GANJAM OF SRI BHIMSEN NANDA - EC


1. This proposal is for Extension of validity of Environmental Clearance for Bhagabanpur Decorative Stone Deposit over an area 2.124 ha at village-Bhagabanpur, Tahasil-Kukudakhandi, Dist-Ganjam of Sri Bhimsen Nanda.
2. Environmental Clearance was granted by the State Environmental Impact Assessment (SEIAA), Odisha vide Letter no. 617/SEIAA / SEIAA-1/12, dated 04.03.2013. Further the Environment Clearance was granted for the period from 2015-16 to 2019-20. Vide Letter No 1744/168/16/ DEIAA dated 20.12.2016 and Letter no 37/DIEAA dated 08.06.2017.
3. The Bhagabanpur quarry lease for decorative stone 2.124 Hectares in village Bhagabanpur, Tahasil Kukudakhandi (Erstwhile Berhampur), District Ganjam, Odisha was executed in favour of Sri Bhimasen Nanda on 23.03.2005 for a period of 20 Years and as such the lease period is valid upto 23.03.2025.

4. The EC was granted for 5 years i.e. upto 31.03.2020. As per MoEF&CC circular J-11011/15/2012-IA(II)M dated 20.03.2015 the validity of EC will be for 30 years irrespective of mining lease renewal.
5. As per EC amendment letter no. 371/DEIAA dated 8.6.2017 no mining activity has been carried out beyond 30m below the ground level.
6. The project proponent made the application for extension of EC.
7. Consent to operate obtained from Odisha state pollution control board vide letter no 2036/CTO-01/2013 dated 17.06.2016.
8. No forest land involved in the lease area.
9. The lease area comes within 500m radius of Decorative stone mines of M/s Neelachal Granites Pvt. Ltd which has already obtained EC.
10. The proponent made a detailed presentation before the SEAC on 08.09.2020. The SEAC decided to take decision on the request of the proponent after the proponent submits certain information / documents

Considering the information / documents furnished by the proponent and presentation made by the consultant, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent.

- (i) Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.
- (ii) Certificate from the concerned Mining Officer indicating no. of other Mines within 500m from periphery of the mines.
- (iii) Certificate from concerned DFO about DLC land involved in the lease area.
- (iv) Copy of Mining lease and its validity period.
- (v) Past year wise production status.

Secretary, SEAC


23.07.2020
Chairman, SEAC

TERMS OF REFERENCE (ToR) FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TOR FOR MINING PROJECT

1. The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors..
2. Department of Mining & Geology, State Government shall ensure that mining operation shall not commence till the entire compensation levied, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
3. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
4. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
5. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
6. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
7. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
8. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
9. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.
10. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the


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mine / lease period.

11. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
12. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
13. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
14. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
15. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
16. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
17. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
18. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
19. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
20. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be

indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.

21. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects failing under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
22. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs/STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine (lease area) will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
23. One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
24. Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
25. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
26. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.


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29. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater, Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter- alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
30. Details of any stream, seasonal or otherwise, passing through the tease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be.
31. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
32. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
33. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
34. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
35. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
40. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
43. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
44. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
45. The activities and budget earmarked for Corporate Environmental Responsibility (CER) shall be as per MoEF&CC, Govt. of India O.M No 22-65/2017-IA. II (M) dated 01.05.2018 and the action plan on the activities proposed under CER shall be submitted at the time of appraisal of the project included in the EIA/EMP Report.
46. The Action Plan on the compliance of the recommendations of the CAG as per MoEF&CC, Govt. of India Circular No. J-11013/71/2016-IA.I (M), dated 25,10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.
47. Compliance of the MoEF&CC, Govt. of India Office Memorandum No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgement of Hon'ble Supreme Court, dated the 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India needs to be submitted and included in the EIA/EMP Report.

B. Besides the above, the below mentioned general points are also to be followed:-

- a) All documents to be properly referenced with index and continuous page numbering.
- b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006- IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the


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TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

- h) As per the circular no. J-11011/618/2010-IA.II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
- C. The prescribed TOR would be valid for a period of four years for submission of the EIA/EMP report after conducting public hearing.**