PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE, ODISHA HELD ON 12th JANUARY, 2021

The SEAC met on 12th January, 2021 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.	Dr. D. Swain	-	Member
3.	Prof. (Dr.) P.K. Mohanty	-	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.	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 OF ENVIRONMENTAL CLEARANCE OF M/S D.N HOMES PVT LTD. FOR CONSTRUCTION OF RESIDENTIAL COLONY PROJECT OVER TOTAL BUILT UP AREA 1,60,069.25 M^2 & PLOT AREA 23,686.05 M^2 (5.823 ACRES) AT – SUNDARPUR, TAHASIL – BHUBANESWAR, DISTRICT – KHORDHA OF SRI RATNAMALA SWAIN (DIRECTOR) – 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. This is a proposal for Environmental Clearance of M/s D.N Homes Pvt Ltd. for construction of Residential colony project over total built up area 1,60,069.25 m^2 & plot area 23,686.05 m^2 (5.823 acres) at – Sundarpur, Tahasil – Bhubaneswar, District – Khordha of Sri. Ratnamal Swain.

3. The project falls under category "B" or activity 8 (b)-Township and Area Development projects under EIA Notification dated 14th September 2006 as amended from time to time.

4. M/s D.N Homes Pvt. Ltd. is the developer of Residential colony project located at Hal Plot No. 193,194,200,201 & 204 Corresponding to sabaka plot no-740/1412 and Hal Plot No.-182,186 corresponding to sabaka plot No-764/1060 & 764/1063, Mouza- Sundarpur, Tehsil & District-Khurda, Bhubaneswar, Odisha on a land measuring 5.853 acres or 23,686.05 m^2. The net plot area is 22,518.05 m^2.

5. The site is coming under development plan of Bhubaneswar Development Authority. There are Total 5 Towers i.e. Residential (Tower A to E) having 4 BHK & 3 BHK and one Commercial (Tower F) having Shops, Restaurant, Business Centre, Service apartment & Club. The project has 2 basements and 31 floors (2B+G+31).

6. **Location and Connectivity** - The plot area of the project site is 23,686.05 m^2 (or 5.853 acres). The coordinates of the area is Latitude - 20°20'57.86"N and Longitude - 85°46'12.45"E. The site has good connectivity to Khandagiri-Chandaka Road. The nearest railway station is Bhubaneshwar New Railway Station approx. 7.5 km from the project site

and Biju Patnaik International Airport is at a distance of approx. 9.5 km from the project site. Nearest National Highway is NH 5 at a distance of 8.0km. Nearest town is Aryapalli – 2.7 km. Nearest city is Bhubaneswar is 9 km. Nandankanan Wildlife Sanctuary lies at a distance of Approx. 5.6 km (NW) and Chandaka Dampara Wildlife Sanctuary lies at a distance of Approx. 0.02 km (NW).

7. The maximum height of the building will be 106.4 m. AAI NOC for the same has been obtained.

8. The Detailed Area Statement of the project is mentioned in the table:

S. NO.	PARTICULARS		AREA (SQ.M.)
1.	Total Plot area		23,686.05
2.	Plot Affected by Road		1,168.00
3.	Net Plot Area		**22,518.05**
4.	Permissible Ground coverage (@40%)		9,007.22
5.	Proposed Ground coverage @ 23.30 % of net plot area)		5,247.46
6.	Permissible F.A.R (@ 7 of plot area)		
7.	Proposed F.A.R (@ 4.567 of plot area)		**1,08,182.43**
	a.	Residential F.A.R	1,03,700.16
	b.	Commercial Area	3,087.47
8.	Club		1,345.80
9.	Guard Room		33.00
10.	Temple		16.00
11.	Non F.A.R		**14,796.58**
12.	Basement Area		**37,090.24**
10.	**Total Built-up Area (7+8+9+10+11+12)**		**1,60,069.25**
11.	Maximum Height of the Building (m) (2B+G+31)		106.4
12.	Landscape area (35.36 % of net plot area)		**7,962.57**

4 **Green Belt** - Total green is 7,962.57 m^2 i.e. 35.36% of the plot area. No. of trees proposed to be planted = 285 trees.

5 **Power Requirement** - Total power requirement for the proposed project will be 5589 kW or 6113 kVA; Source: CESU which will be sourced from Odisha Power Transmission Corporation Limited. Total 4 nos. of DG sets total 6020 kVA (2x2000 kVA+2x1010 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.

6 **Water Requirement** - The total water requirement will be met through Ground water and Bore well which is approx. 585 KLD, out of which total domestic water requirement is 529 KLD. The total domestic water will be 529 KLD, out of which fresh water requirement is approx. 348 KLD & flushing water will 183 KLD. Makeup water for swimming pool will be 2 KLD.

7 **Wastewater Generation:** The project will generate approx. 460 KLD of wastewater. The wastewater will be treated in an onsite STP of 560 KLD capacity. The treated water (414 KLD @ 90% of total waste water) will be reused for flushing (183 KLD), horticulture (32 KLD) & Filter backwash (22 KLD). Surplus treated water during dry season (177 KLD), monsoon season (205 KLD) and winter season (195 KLD) will be discharged to external sewer with the requisite permission.

8 **Solid waste Generation:** The project will generate approx. 2147 kg/day of solid waste which will be collected from household units as domestic waste in coloured bins. The local

vendors will be hired to provide separate-coloured bins for dry recyclable and Bio-Degradable waste. Litter bin will also be provided in open areas like parks etc. Biodegradable waste will be composted in Organic Waste Converter and Non-biodegradable Waste generated will be disposed through Govt./CPCB approved vendors.

9 **Parking Area:** Total parking area requirement will be 32,763 m^2 and provision will 33,912.32 m^2 and Total Parking i.e., 1,067 ECS will be provided.

10 Proposed energy saving measures Solar energy will be harnessed to meet various energy requirements of the project such as:

- Solar street lights.
- Solar blinkers.
- Roof top SPV (Solar Photo voltaic) systems with or without grid interaction.

11 Baseline data collection for the project has been conducted from period October – 2020 to December 2020.

12 6 nos. of Rain water harvesting pits had been proposed under Rain water harvesting system.

13 Firefighting Installations will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC.

14 The total estimated population of the project will be 5167 persons (including Residents +staff +visitors).

15 The total estimated cost of the project is approximately INR ` 120 Crores including land and construction.

16 The consultant **M/s Grass Roots Research & Creation India (P) Ltd. Noida (UP)** along with the proponent have made a detailed presentation on the EIA/EMP report.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Grass Roots Research & Creation India (P) Ltd. Noida (UP)**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

(i) Supporting documents regarding land schedule and kissam of land

(ii) Certificate from the concerned DFO about exact distance of the project location from the boundary of notified Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary and Nandankanan Sanctuary.

(iii) Stack height of DG set, location and its specifications and design with stack height calculation with reduction in numbers and with higher capacities including showing layout and installation of stack of desired height.

(iv) Breakup percentage of green belt-with hierarchical tree plantation, species and spacing alongside the boundary and landscape with detailed plan and layout map.

(v) NOC letter from PHED and their inability to supply the requirement of water.

Besides,

a) Incase use of ground water becomes inhabitable, confirmation for installation of Piezometer to ascertain the ground level water table position from time to time and remedial action thereof if any.

b) Perennial tasting arrangement for quality of drinking water incase of use of ground water through bore well and if required provision of water treatment plant for drinking water.

(vi) Details and plant layout showing location of drainage within the premises and thereof its connectivity to municipality drain along with water balance(with diagram) during monsoon and non monsoon period.

(vii) Details and plant Layout showing location of rain harvesting recharging pits and quantity to be harvested taking into consideration the erratic rainfall pattern in the area and showing quantity of rain water to be harvested and recharged with calculation details vis-à-vis the prescribed norm to be harvested/recharged as per the appropriate authority.

(viii) Details of Solar energy to be used in project with percentage of total power consumption.

(ix) NoC from the Air Port Authority of India (AAI) for raising of building height.

(x) Status of NOC/Permission letter from CGWA/WR Deptt, Govt. of Odisha respectively for drawl of ground water.

(xi) Permission from BMC to take additional load of waste water in the existing drain.

(xii) Detailed ECS calculation (Residential and Commercial) with four wheeler and two-wheeler parking facility for residence and floating population as well.

(xiii) FAR Justification as per new revised BDA building bylaw of August, 2020.

(xiv) Status of ownership of land used for connecting road to main road and internal drains to municipality drains or alternate disposal system.

(xv) Internal road, Paved area ,ground coverage and pedestrians pathways provided as per new revised BDA norms.

(xvi) Traffic study need to be done by domain expert of an institute of repute.

(xvii) Basis of selection of stations for baseline data study.

(xviii) Certificate of BDA regarding Yellow zone / Green zone of the project.

(xix) Assessment of provision of ventilation and fire safety in both levels of basement including proposal of lift.

(xx) Proposal of adequate capacity of STP and disposal of treated STP water through sewage line.

(xxi) Permission of Grampanchayat for construction of project in Chandaka G.P.

(xxii) Provision of dual plumbing line for use of treated STP water for flushing of toilets.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR KHEMABEDA DECORATIVE STONE QUARRY OVER AN AREA OF 12.21 ACRES OR 4.941 HA. IN VILLAGE KHEMABEDA TEHASIL- BAIPARIGUDA IN THE DISTRICT OF KORAPUT OF SRI HOTHA VENKATESH – EC

1. This is a proposal for Environmental Clearance for Khemabeda decorative stone quarry (Dolerite/Black Granite) over an area of 4.941 Ha or 12.21 Acres is located in the village Khemabeda, Tahasil Baipariguda, District Koraput, Orissa, in favour of Sri. Hotha Venkatesh.
2. As per the EIA Notification S.O. 1533, dated 14th September 2006 and subsequent amendments, this project falls under Category B2.

3. The applied mining lease is granted by Department of Steel & Mines, Govt. of Odisha vide Letter No.6534/ IV (DS) SM-10/2017)/S&M, Bhubaneswar, on dated 05.09.2019 in favour of Sri Hotha Venkatesh for 30 years.
4. Mining Plan for a period of five years was approved by Director of Mines, Odisha, Bhubaneswar vide letter no. MXXII-(a) 9/2019/5089/DM on dated 23.07.2020.
5. **Location and Connectivity -** The area of mining lease area is located in the Survey of India Toposheet no. 65J/6 (E44K6), latitude 18°38'13.9"N to 18°38'21.8"N & longitudes $82^0$24'18.6" E to $82^0$24'26.8"E. The land use pattern of the mining lease area comes under the non forest agricultural land (Abada Ajogya Anabadi), bearing Khata no.315, Plot no. 1355 (0.348 Ha), 1356 (3.358 Ha) & 1360 (1.235 Ha) and Kissam: Parbat. The applied area is a part of the revenue village Khemabeda no.200 covers 4.941 Ha or 12.21 Acres under Baipariguda Tahasil, District Koraput Odisha. The nearest railway stations is Koraput Railway Station at an aerial distance of 37 Km. The lease area can be approached from NH: 43 & SH: 25 at a distance of 36 Km & 6 Km, nearest Airport is Jey pore Airport which is at a distance of 85 Km. Kolab Reservoir at 20km, Dasmatpur RF at 5km. Nearest town is Boipariguda – 10km, Jeypore – 29km and Inter state boundaries is at 13km.The drainage pattern of the area is dendrite. As the region shows an undulated hilly topography, there is neither any seasonal nor any perennial nalla flowing within the applied mining lease area.
6. **Method Of Mining -** There will be excavation of decorative stone from the lease area through opencast semi mechanized mining method. The height of the benches will be 3m & the slop of the benches will be maintained at 70^0-80^0. The overall slope of the quarry will be less than 45^0 with the horizontal. As per the estimation the geological reserve is found to be 1933184 m^3 (proved 1732706 m^3, probable 150434 m^3 & possible 50044 m^3) & Mineable reserve for decorative stone is found to be 1417270 m^3 (proved 425181 m^3, probable 992089 m^3). The details of the proposed production during the plan are given below the table.

Table No.1.1 Details of the proposed production during the Plan Period

Year	Total volume of Excavation (m^3)	Volume of Marketable Decorative stone (m^3)	Volume of Non-saleable Decorative Stone (m^3)	Volume of Swelled Waste (m^3)
1st Year	13332	4000	667	12964
2nd Year	13332	4000	667	11780
3rd Year	13332	4000	667	11266
4th Year	13333	4000	667	11369
5th Year	13334	4000	667	11523
Total	**66,663**	**20,000**	**3,335**	**58,902**

7. **Waste generation and utilization -** During the total rock mass of 45309m3 of waste (in-situ) & 58902m3 of waste (swollen) will be generated during the plan period. These wastes will be utilized con-currently for construction & maintenance of road in the lease area. For temporary storing of these wastes, 0.944 Ha of area has been earmarked in southern part of the mining lease area.
8. **Green Belt** - There will be proposed for green belt development over an area of 0.6520 Ha in and along the periphery of the quarry lease area of during the plan period by 500 nos. of saplings for rehabilitation.
9. **Water Requirement** - Total water requirement for the project will be 5 KLD out of which

2 KLD will be required for drinking and domestic purpose and 1.5 KLD for dust suppression and 1.5 KLD for plantation purpose. Source of domestic water will be nearby village well.

10. **Power Requirement** - Power Requirement will be met through DG sets.
11. **Employment Potential -** The mining activity will generate employment for 25nos of from which 08nos skilled worker, 12nos unskilled worker & 5nos managerial staffs.
12. The project cost is ` 200 lakhs.
13. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, 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 Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent.

(i) Certificate from the concerned Mining Officer about the geo-coordinates and other mines located within 500 meter from the periphery of the lease boundary.

(ii) Distance of the nearest habitation / village (s) etc. from the lease boundary duly certified by the concerned Tahasildar including school and hospital and measures for decongestion and avoiding possibility of any accident.

(iii) Details of waste management i.e., quantity to be used, stored and the waste composition including details of provision with design of Garland drain, retaining wall and Settling tanks.

(iv) NOC from concerned competent authority for usage of road for transportation of minerals including SOP for Perennial maintenance of the same .

(v) Plantation on both sides of approach road and its maintenance.

(vi) Zero discharge from lease area to be maintained.

(vii) In case village / any habitation is very nearby, plan to ensure safety of human life and livestock from accidents be submitted.

(viii) Number and type of vehicles to be engaged per day and their frequency of plying.

(ix) Certificate from the concerned DFO / Tahasildar that there is no DLC land involved in lease area. Distance of the mines from the boundary of the Notified Eco-Sensitive Zone / Wildlife Sanctuary if any.

(x) Certificate from the concerned mining officer that the mine has not operated earlier and this is a new mine.

(xi) NOC of Panchayat for usage of haulage road/Panchayat road.

(xii) Green Belt Plantation should be completed within 2 years and maintenance to be carried out in remaining years. A detailed proposal to this effect shall be submitted including trees existing in mining area need to be uprooted and re-rooted/planted in safety zone.

(xiii) Surface water quality management of near by water bodies to get rid of contamination / pollution.

ANNEXURE-A

STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR TOWNSHIP/ AREA DEVELOPMENT PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

1) Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.

2) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.

3) Examine baseline environmental quality along with projected incremental load due to the project.

4) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.

5) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project

6) Submit the details of the trees to be felled for the project.

7) Submit the present land use and permission required for any conversion such as forest, agriculture etc.

8) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.

9) Ground water classification as per the Central Ground Water Authority.

10) Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.

11) Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.

12) Examine soil characteristics and depth of ground water table for rainwater harvesting.

13) Examine details of solid waste generation treatment and its disposal.

14) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.

15) DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.

16) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analyzed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.

17) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.

18) Examine the details of transport of materials for construction which should include source

and availability.

19) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.

20) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

21) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

22) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.