

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 22<sup>ND</sup> DECEMBER, 2021**

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The SEAC met on 22<sup>nd</sup> December, 2021 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 SAPIGEN BIOLOGIX PRIVATE LIMITED FOR PROPOSED MANUFACTURING OF VACCINES AND BIOTHERAPEUTICS INCLUDING BIO-PROCESSING, BULK FORMULATION, FILLING, PACKAGING AND ALLIED R&D WORKS AT ODISHA BIOTECH PARK, VILLAGE-ANDHARUA, TAHASIL- CHANDAKA, DIST.-KHORDHA, ODISHA OF SRI A. ARUNACHALAM - EC**

1. The proposal is for Environmental Clearance of M/s Sapigen Biologix Private Limited for proposed manufacturing of Vaccines and Bio-therapeutics including bio-processing, bulk formulation, filling, packaging and allied R&D works at Odisha Biotech Park, Village-Andharua, Tahasil- Chandaka, Dist.-Khordha, Odisha of Sri A. Arunachalam.
2. The MoEF&CC, Govt. of India Notification vide S.O 2859 (E), dated 16.07.2021 stipulates "All proposals for projects or activities in respect of active pharmaceuticals ingredients (API) received from 16.07.2021 to 31.12.2021, shall be appraised as category B2 projects, provided that any subsequent amendment or expansion or change in product mix after the 31.12.2021 shall be considered as per provisions in-force at that time" and this shall be substituted after the 3<sup>rd</sup> paragraph of column 5 of item 5 (f) of schedule of EIA Notification , 14<sup>th</sup> September, 2006 and amendment thereafter.
3. M/S. Sapigen Biologix Private Limited has obtained the land possession from Odisha Biotech Park of 8.86 Acres. Proposed Built-up area:- 25889.5 SqM Plot Area - 35,889.22 m<sup>2</sup> or 8.86 acres /3.58 Ha of land have been earmarked for development of the Production facility to manufacture multiple Vaccines including Covid vaccines and Bio therapeutics Manufacturing Unit at Odisha Biotech Park. The proposed project is a

Manufacturing Project. The proposal also pertains to construction of infrastructure and Manufacturing buildings for proposed unit as per BDA.

4. **Location and Connectivity** - Total land for this proposed project is 35,889.22 m<sup>2</sup> or 8.86 acres /3.58 Ha. over Sub Plot no.: B1/24 & ITBT1/7, Village-Andharua, Tahasil-Chandaka, Dist.-Khordha, Odisha. The Geographical co-ordinate of the project site is: Latitude 20<sup>0</sup>18'58.06" N to 20<sup>0</sup>19'4.11"N & Longitude 85<sup>0</sup>46'21.95"E TO 85<sup>0</sup> 46'15.03"E and fall under Topo Sheet No. - 73H/11, 73H/15, 73H/12, 73H/16. The Site is connected to AH-45 (Kolkata-Krishnagiri Road) at 7.23 K.M and also is well connected to Khandagiri Chandaka road at distance of 0.8 km from the project site. The nearest railway station is Bhubaneswar Railway Station is 16.6 Km from project site. The nearest airport is Biju Pattnaik Airport, Bhubaneswar at a distance of approx. 13.9 Km from project site. Nearest sanctuary is Chandaka Dampada Sanctuary – 0.62 km. Nearest water body is Botanical Garden Lake – 3.20 km. Nearest Habitation is Andharua Village – 1 km.
5. The site is coming under Bhubaneswar Development Authority.
6. The total plot area is 35,889.22 m<sup>2</sup> or 8.86 acres /3.58 Ha. with total built-up area 25889.5 SqM.
7. The land use details of the Project:

S.NO.	FACILITY	AREA (Sqm)
1	Main Block	11238.09
2	Parking Area	6305.20
3	Greenbelt / Plantation Area	11843.43
4	Total Road Coverage	4100.00
5	Utility & Services	2402.36
	<b>TOTAL</b>	<b>35889.10</b>

8. **Water requirement:** Total water requirement will be 744 KLD. Around 628 KLD of water will be met out from PHED Supply. The sewage generated due to domestic usages from with the Plant will be treated in STP. The Park is expected to set up the common STP of 25 KLD with expandable capacity up to 50 KLD. The Park is expected to install 1 no. of 600 KLD Central Effluent Treatment Plant (CETP) with expandable capacity and the effluent network will be extended to required industries. All output from biotechnology units is decontaminated and sterilized to ensure safe disposal of effluents and to ensure all pathogens will be killed prior to liquid disposal. Every unit within the Park is expected to be equipped with a Kill Tank system (Decontamination System) using Thermal based decontamination technology. In case, the Park does not set up the ETP & STP units, Sapigen Biologix undertakes to set up its own ETP and STP catering to its individual need.
9. **Power requirement:** The daily power requirement for the proposed complex is assessed as 5836 KW. The power will be entirely supplied by 11 KV source of TPCODL of Odisha. Also, in case of power cut, 100 % power backup generator will be provided in the hospital. For this purpose diesel generator having DG Set (4x2000KVA) capacities will be provided.
10. **Rain Water Harvesting:** Rain Water will be harvested and recharge through 41 recharge pits from the plot area.

11. **Parking Requirement:** Total parking area provided 16686 m<sup>2</sup> Sq.mt./667 ECS and basement parking area will be provided.
12. Fire fighting Installations: Fire fighting system will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4).
13. **Green Belt Development:** Green belt area allocated within Layout Plan = 7278 Sq M (20% of Land Area). Parking area allocated inside is 10870sqm (33% of land area required = 11843 SqM requirement for Green development per MoEF guideline Therefore, required additional Green area allocation from the Parking space = 4565 Sq M. The proposed land area shall be planted with vegetation.
14. **Solid Waste Management:** Solid Waste generated will be segregated into components such as biodegradable (Waste vegetables and food etc.), hazardous wastes, bio medical wastes, oil waste and E-waste. Solid wastes will be collected in separate bins with different colors. The wastes will be disposed through authorized vendors.

Name of waste	Item	Quantity per Annum	Unit	Mode of Transport	Mode of Disposal
Used Oil	Hazardous Waste (as per Hazardous and Other Waste Management rules	3.6	Kilolitre	Road	Authorized Recyclers
General waste scrap	Paper, Plastic and Other mixed waste	360	Tons	Road	Authorized Recyclers
Electrical and electronic waste	E Waste	0.6	Tons	Road	Authorized Recyclers
ETP sludge	Industrial Waste	14.4	Tons	Road	Treatment, Storage and Disposal Facility(TSDF)
Empty containers	Hazardous Waste (as per Hazardous and Other Waste Management rules 2016)	7.2	Tons	Road	Authorized Recyclers

15. Employment Potential – During the operation phase, total manpower will be 325 persons (Temporary – 200nos and Permanent – 125nos).
16. Baseline Data from 01 January 2021 to 31<sup>st</sup> January 2021 (Winter Season)
17. The estimated project cost is ` 314.6 Crores and cost for EMP is 3.16 crores.
18. The project proponent along with the consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar** made a detailed presentation on the proposal. The proponent made an appeal before the committee to consider the proposal as category B2 as per MoEF&CC, Govt. of India Notification vide S.O 2859 (E), dated 16.07.2021 as they have applied for EC before 31.12.2021.

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.

- (i) EC compliance against the EC granted in favour of “Odisha Bio-Tech Park” duly authenticated by Regional Office, MoEF&CC, Govt. of India need to be submitted.
- (ii) It was mentioned during presentation that “Odisha Bio-Tech Park (OBTP)” may have common STP & ETP to which they will connect their industry effluent & domestic effluent line to it, otherwise they will have their own STP & ETP. In such a situation, the project proponent need to submit the confirmation including the capacity and design of STP & ETP (common) from the appropriate authority of OBTP is including the fact that they will accept the respective effluents of the project proponent. In case project proponent will have their own, they need to submit the capacity and design of the same.
- (iii) STP & ETP need to be standalone system and not to be inter-connected or integrated – to confirm this.
- (iv) Internal drain network with dimension in the unit layout to be submitted along with dimensions and its connectivity.
- (v) Start and fall out the outside drain to which the effluents of the unit will be discharged to be intimated including the permission of the authority of the drain to take the additional load (huge quantity)
- (vi) Since effluents of ETP is very health hazardous, it shall not be connected to dual plumbing and not to be discharged to drain also. Chemical analysis of input and output discharge to be intimated along with the prescribed norms for the same.
- (vii) Green belt has been indicated to be exactly 20% of the plot area. Thus, green belt dimension in the layout map to be shown along with the details of species with three tier plantation around the boundary continuous.
- (viii) The use of treated waste water has been intimated to be as follows which sounds hypothetical.
  - a) Peripheral Green Belt - 149 KLD
  - b) Inside Green belt - 100 KLD
  - c) Road washing - 30 KLD

The details of the above estimation with basis be submitted along with the details of peripheral green belt.

- (ix) Total power demand is stated to be 5836 KW. To indicate and submit the plan and details of consumption of solar power vis-à-vis the generation and % of the same of total power demand.
- (x) The basis of no & capacity of DG set selection along with its location in reference to predominant wind direction and the offices / works and the stack height with installation drawing of the exhaust pipe be submitted since the project proponent will have 4 DG sets of 2000 KVA capacity each. Besides, the carbon balance with carbon Neutrality (Net zero) be submitted.

- (xi) Since, schools are stated to be located at 300 mtrs distance, traffic study by domain expert be undertaken and based on the findings of the study, decongestion plan be proposed (if required) be submitted.
- (xii) Parking (space) for 4-wheeler, two wheelers and By-cycles be shown in the plant lay out map and corresponding norms be indicated
- (xiii) Land use pattern indicates the land as Agriculture, water bodies, forest & settlement lands etc. The 'Kisam' of the land needs to be converted to "Industrial use" before construction of the unit by appropriate Revenue Authority.
- (xiv) Water balance for both monsoon & non-monsoon season to be shown.

**ITEM NO. 02**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S SASWAT INFRASTRUCTURE PVT. LTD. FOR PROPOSED MULTI STORIED RESIDENTIAL APARTMENTS BUILDING PLAN WITH COMMERCIAL FACILITY OF LS+US+12 OVER AN TOTAL BUILT UP AREA OF 43,223.23 SQM LOCATED AT MOUZA: PATAPUR, DIST: CUTTACK OF SRI SWADESH KUMAR ROUSTRAY – EC**

1. The proposal is for Environmental Clearance of M/s Saswat Infrastructure Pvt. Ltd. for proposed Multi Storied Residential Apartments building plan with Commercial Facility of LS+US+12 over an total built up area of 43,223.23 sqm located at Mouza: Patapur, Dist: Cuttack.
2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006, as amended from time to time; this project falls under Category "B", Project or Activity 8(a) Building and Construction projects (EIA Notification dated 14th Sep, 2006 as amended on 2009).
3. **Location and Connectivity** – The proposed site is located at Mouza-Patapur, Dist- Cuttack, Odisha. The Geographical co-ordinate of the project site is: Latitude – 20°26'51.52"N & Longitude - 85°50'0.98"E. River Katajorhi is flowing at a distance of 200 metres in the North direction. The Nearest Railway Stations are Barang at 5.5 Km, Cuttack Railway Station is 7.2 km from project site and Bhubaneswar Railway Station is at a distance of 20 Km (by road) from Project site. The nearest Airport is Biju Patnaik Airport, Bhubaneswar, which is approx. 23 km (by road) from the project site.
4. The site is coming under Cuttack Development Authority.
5. The total plot area is 9359.81 sq meters (2.31Acres). with total built-up area 43,223.23 SqM.
6. The building details of the Project:

Particular	Proposed	Permissible
Project Name	Saswat Infrastructure Pvt. Ltd.	--
Plot Area	9432.52 Sqm	--
Ground Coverage	3743.02 sqm (39.99 %)	--

FAR (Floor Area Ratio)	3.632	-
FAR Area	34259.91 sqm	
Built up Area	43223.23 sqm	--
Maximum Height	45.04 m	--
Total Parking Area	8547.22 sqm	
Green Belt Area	1871.96 sqm (20 %)	1871.96 sqm (20 %)
Road Area	1829.66 sqm	
Parking Area	Covered – 6632.05 sqm Open – 1915.17 sqm <b>Total – 8547.22 sqm</b>	8525.53 sqm
Maximum No. of Floor	LS+US+12	--
Power/Electricity Requirement & Sources	Total – 1566.6 KW Solar – 98.24 KW TPCODL – 1468.36 KW	--
No. of DG sets	1x200 KVA & 1x82.5 KVA	--
Water requirement	137.2 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 200 KLD	--
Estimated Population-Residential, Commercial, Floating/visitors	Residential - 1477 Nos. Floating – 148 Nos. Commercial- 58 Nos.	--

7. **Water Requirement** – Fresh make up of 137.2 m<sup>3</sup>/day will be required for the project which will be sourced from Ground water. Waste water of 177.9 KLD will be treated in a STP of 200 KLD capacity, which includes primary, secondary and tertiary treatment.

8. Rain Water will be harvested through 18 nos. of Rain Water recharging pits.

9. **Power Requirement** - The total consolidated electrical load estimate for proposed project is about 1768.5 KW. Power from Solar is 98.5 KW. The 1670.0 KW power will be supplied by 11 KV source of TPCODL of Odisha State Electricity Board. Also, in case of power cut, 100 % power backup generator will be provided for common uses only. For this purpose diesel generator having 200 KVA (1 no.) & 82.5 KVA capacities will be provided.

There are 80 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street lighting,

Energy conservation by using Solar Street Lighting = 80 x 72 = 5760 watt = 5.76 KW

Energy Saving by using Solar Lighting = 92.44 KW

Energy Saving by using Solar Street Lighting = 5.76 KW

Total Energy Saving = (92.44 + 5.8) KW = 98.24 KW

Total Solar Energy saving =  $98.24/1566.6 = 0.0627 \times 100 = 6.27 \%$ .

10. **Solid waste Management** - From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 664.7 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate colored bins. Proper waste management practices will be adopted during the collection, storage and disposal of the generated solid waste and construction and demolition waste.

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	1477 @ 0.45 kg/day	664.7
2.	Floating Population	148 @ 0.15 kg/day	22.2
3.	Retail Shop	66 @ 0.15 kg/day	9.9
4.	STP sludge		85.0
<b>TOTAL SOLID WASTE GENERATED</b>			<b>781.9 kg/day</b>

11. **Green Belt**- Green belt will be developed over an area of 1871.96 sqm which is 20.0 % of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.

12. **Parking Details** – Total parking area allocated to the project is 8547.22sqM/ 314ECS.

13. The project cost is ` 180 crores and Environmental Monitoring programme – 3.6 crores.

14. The proponent along with the consultant **M/s. Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** made a detailed presentation before the SEAC on the proposal on **22.12.2021**.

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 decided to take decision on the proposal after receipt of the following information / documents from the project proponent followed by site visit by the Sub-Committee of SEAC to the proposed site.

- (i) "Kisam" of the land along with relevant document from appropriate Revenue Authority be submitted.
- (ii) The source of water is 'Ground Water' as stated. Why cannot be surface water / pipe water supply? Letter from the appropriate authority be submitted that surface water / pipe water supply from CMC / WATCO/PHD is not possible.
- (iii) PH value of ground water from the baseline study data reveals that it is 6.91 against the norm of 6.5-8.5. Thus, from health point of view, measures to improve the same be submitted.

- (iv) No. of rain water harvesting pits (14 nos.) has been arrived with maximum rain fall as 120 mm/hr in 24 hours and retention time as 25 mts with co-efficient of run off as 0.70 for paved area. This calculation be revisited taking into consideration of maximum rain fall is 24 hours in past 30 years based on logical climate data (Date taken for 10 years up to 2018 by PP) and norm for retention time /co- efficient of run-off with relevant reference be submitted as well.
- (v) Parking in terms of space of ECS, both for 4 wheelers / two wheelers / by-cycles for residential apartment as well as commercial complex as per the norms showing the demarcation in the layout map be submitted, considering the residents, visitors and floating population for commercial complex as well.
- (vi) Provision of solar power (5.68%) of total power demand of 89.1 KW) is stated to have been made. Details of plan and consumption calculation vis-à-vis the generation of the same be submitted.
- (vii) 1871.96 m<sup>2</sup> land (exactly 20% has been stated to have been taken for green belt development. As such, details of dimension of green belt continuous stretch surrounding the boundary with three tier plantations (indicating the species) be submitted.
- (viii) Traffic study be undertaken by a domain expert at the intersecting point with public road /NH/SH, considering the traffic 10 years ahead with other projects and decongestion plan (if any required) based on the study findings be submitted.
- (ix) Installation drawing of exhaust pipe of the stack of DG sets be submitted with the basis of selection of no & capacity of DG sets along with the location of the same (2 nos. DG sets of capacity of 500 KVA each) with respect to predominant wind direction vis-à-vis the location of residential tower and shopping complex.
- (x) Distance of ESZ (Nandan Kanan Sanctuary and Chandaka - Dampada Sanctuary) duly certified by the concerned DFO from the project site boundary be submitted.
- (xi) The treated water proposed to be discharged to nearby dead canal. Permission from the Water Resources Department, Govt. of Odisha to discharge to the nearby dead canal is to be submitted.

### **ITEM NO. 03**

#### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. DNT INFRASTRUCTURES PVT. LTD. FOR PROPOSED RESIDENTIAL APARTMENT & COMMERCIAL COMPLEX OVER AN TOTAL BUILT UP AREA OF 68196.4 SQM. LOCATED AT MOUZA -DADHA, TAHASIL - BHUBANESWAR, DIST - KHURDA OF SRI NIKUNJA KISHORE DAS – EC**

1. The proposal is for Environmental Clearance of M/s. DNT Infrastructures Pvt. Ltd. for proposed residential apartment & commercial complex over a total built up area of 68196.4 sqm. located at Mouza -Dadha, Tahasil - Bhubaneswar, Dist - Khurda of Sri Nikunja Kishore Das.



2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006, as amended from time to time; this project falls under Category "B", Project or Activity 8(a) Building and Construction projects (EIA Notification dated 14<sup>th</sup> Sep, 2006 as amended on 2009).
3. DNT Infrastructures Pvt. Ltd. has awarded for Development of Private Housing Project 3.158 Acres of land at Plot No.:591, 615, 614, 613, 612, 611, 610, 600, 599, 601, 602, at Mouza Dadha, Bhubaneswar, Khurda, Odisha.
4. **Location and Connectivity** – The proposed site is located at Mouza -Dadha, Bhubaneswar, Khurda, Odisha-754005. The Geographical co-ordinate of the project site is: Latitude -Latitude - 20° 24' 44.60", 20° 24' 0.13" 20° 23' 57.79", 20° 24' 5.14", 20° 24' 0.16", 20° 24' 01.22", 20° 23' 57.73", 20° 24' 03.15" N & Longitude - 85° 49' 44.60" , 85° 49' 44.61" , 85° 49' 44.71" 85° 49' 44.76" , 85° 49' 45. 90", 85° 49' 46.08" , 85° 49' 48.21", 85° 49' 49.51" E. The project site is well connected with National Highway-5. The nearest railway station is Bhubaneswar Railway station at a distance of approx 10.6 Km in South West direction. The nearest airport is Biju Pattnaik International Airport Bhubaneswar at a distance of approx. 13.4 Km in South-West direction from project site..
5. The site is coming under Bhubaneswar Development Authority.
6. The total plot area is 12783.58sq.m with total built-up area 68196 Sqm.
7. The building details of the Project:

Particular	Proposed	Permissible
Project Name	Proposed Residential Apartment & Commercial complex for DNT Infrastructures Pvt. Ltd.	
Plot Area	12783.58 sqm or 3.158 AC.	--
Ground Coverage	4346.41 sqm	--
Total Built up Area	68196.4 sqm	--
Total FAR Area	53713.11 sqm	--
Built Up Area (Residential)	51324.13 sqm	--
Built Up Area (Commercial)	2388.98 sqm	--
FAR	4.3	--
Maximum Height	91.5 meter	--
Road & Paved Area	6202.36 sqm	--
Parking Area	16012.31 sqm(Open Parking +Basement Parking)	13786.62 sqm (25 % of Residential FAR Area + 40 % of commercial FAR Area)
Green Belt Area	2556.71 sqm (20 % of Plot area)	2556.71 sqm (20 % of Plot area)
Power/Electricity Requirement & Sources	2644.8 KW	--
No. of DG sets	2 x 700 KVA	--
Fresh Water requirement & Sources	195 KLD	--

Sewage Treatment & Disposal	STP Capacity 250 KLD	--
Estimated Population- Residential, Floating/visitors	1979 nos. Residential, 200 visitors	--
Estimated Population- Commercial, Floating/visitors	240nos.	--

8. **Water Requirement** – Fresh make up of 195 m<sup>3</sup>/day will be required for the project which will be sourced from Ground water. Waste water of 246.8 KLD will be treated in a STP of 250 KLD capacity, which includes primary, secondary and tertiary treatment.
9. Rain Water will be harvested through 10 nos. of Rain Water recharging pits.
10. **Power Requirement** - The total consolidated electrical load estimate for proposed project is about **2644.8 KW**. The power will be entirely supplied by source of TPCODL of Odisha State Electricity Board. Also, in case of power cut, 100 % power backup generator will be provided for common uses only. For this purpose diesel generator having 700 KVA (2 nos.) capacities will be provided.

There are 60 nos of Solar Lighting poles (@72 Watt with panel for generation) has been proposed for Street lighting,

Energy conservation by using Solar Street Lighting = 60 x 72 = 4320 watt = 4.3 KW

#### **SOLAR LIGHTING FOR COMMON AREA**

In the proposed area, we can propose 95 nos. of solar PV panels.

Therefore, total amount of electrical energy generated by 95 nos. of PV Solar panel = 32.77 KW-hr.

**Assuming, only 4 hours of sunlight available throughout the day time, therefore electrical energy generated by 95 nos. of PV solar panel per day = 131.08 KW**

Saving Using Solar System:

Total Energy Saving = (131.08 + 4.3) KW = 135.38 KW

**Total Energy Saving = 95.48/1435 = 0.066 = 6.6 %**

11. **Solid waste Management** - From the proposed private Housing project solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 890.5 kg/day and waste generated from the commercial will be @0.15 kg/day , which will be 36 kg/day. The waste generated from floating population in residents will be @ 0.15 kg/day, which will be 30 kg/day.

Sl. No.	Category	Counts (heads)	Waste generated
1.	Residents	1979 @ 0.45 kg/day	890.55 kg/day
2.	Commercial Population (including Floating Population)	240 @ 0.15 kg/day	36 kg/day

3.	Floating population in residents	200 @ 0.15 kg/day	30 kg/day
5.	STP sludge		123.4 kg/day
<b>Total Solid Waste Generated</b>			<b>1079.95 kg/day</b>

12. **Green Belt**- Green belt will be developed over an area of 2556.71 sqm which is 20.0 % of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.
13. **Parking Details** – Total parking area allocated to the project is 16012.31sqm(Residential – 51324.13sqm+Commercial – 2388.98sqm)/ 325ECS.
14. The project cost is ` 124 crores and Environmental Monitoring programme – 6.24 crores.
15. The proponent along with the consultant **M/s. Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** made a detailed presentation before the SEAC on the proposal on **22.12.2021**.

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 decided to take decision on the proposal after receipt of the following information / documents from the project proponent followed by site visit by the Sub-Committee of SEAC to the proposed site.

- (i) Part of the land (total 11 plots) is stated to be of “Kisam”- “Sarad 1” and part as “Gharabari” as per the documents submitted by project proponent. As such, the entire land need to be converted to “Gharabari” kism by appropriate Revenue Authority and accordingly, relevant document to be submitted by the project proponent.
- (ii) PH value of ground water from base line study data reveals that it is 6.82 against the norm of 6.5-8.5 and thus it is critical from human health point of view. As such, measures to improve the same be submitted.
- (iii) No. of rain water harvesting pits (10 nos.) has been arrived at with maximum rain fall as 120 mm/hr in 24 hours and co-effluent of run-off for paved area as 0.70. The above calculation be revisited, taking into consideration of maximum rain fall is 24 hours in past 30 years based in logical climate data (in this case data taken for 10 years up to 2018 by project proponent) and norm for co-effluent of run-off taken as 0.70 for paved area with relevant reference by submitted.
- (iv) Since it is a low lying and water logging area prone to local flooding during rainy season, the elevation of base with appropriate height be confirmed is reference to the public road.
- (v) Provision for parking for commercial complex is said to be considered with 240 people. Hoe it has been arrived at? Parking showing the demarcation in the layout map for 4 wheelers / 2 wheelers / Bicycles be submitted considering residential & commercial complex separately with separate provision for visitors / floating populations.

- (vi) Provisions of solar power (4.9%) of total power demand of 2783 kw is stated to have been made. While connected load of each residential unit is given, detail plan & consumption of solar power vis-à-vis the generation be submitted.
- (vii) 2556.71m<sup>2</sup> land (exactly 20%) has been stated to have been provided for green belt development. As such, details of dimensions of green belt continuous stretch surrounding the boundary with three tier plantation be submitted.
- (viii) Findings of traffic study as undertaken by the project proponent shows “LOS” as ‘C’ means ‘Average’ or ‘Nandankanan Road’ which is alarming. Thus, traffic study be undertaken by a domain expert, considering other projects as well & traffic projection 10 years a head and decongestion plan accordingly be submitted.
- (ix) Provision of pedestrian pathways be made at entry & exit gates of appropriate dimension & show in the layout map and submitted.
- (x) How many DG sets is provisional, 3 or 4 & their capacity (s)? Location of DG sets with stack height & installation of drawing of exhaust pipe of the stack be submitted with location of the DG sets in reference to predominate wind direction & the residential towers and commercial complex.
- (xi) Maximum height of the building is stated to be 91.5 mtrs and the project is located at about 500mtr away from “Nandankanan Zoo”. As such, what mitigation measures are proposed to avoid disturbance due to “Noise” and “Light” both during construction and operation stage so that the animals in the Zoo and not distributed at all.
- (xii) How far the project site is from the boundary of the “NandanKanan Zoo” & from the “ESZ” of NandanKanan? Certificate to this effect is to be submitted by the respective DFO/Authority(s).
- (xiii) No objection Certificate from the Director, NandanKanan Zoo for construction of such projects near to the NandanKanan Zoo.

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

#### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. STALWART PROJECT PVT. LTD. FOR PROPOSED HOUSING PROJECT OF B1+B2+G+12 (A-BLOCK) AND B1+B2+G+12 (B-BLOCK) RESIDENTIAL CUM COMMERCIAL BUILDING OVER AN TOTAL BUILT UP AREA 23568.11 SQM. LOCATED IN MOUZA - JAGAMARA, BHUBANESWAR, DIST – KHURDA, ODISHA OF SRI SARAT KUMAR SAHU – EC**

1. The proposal is for Environmental Clearance of M/s. Stalwart Project Pvt. Ltd. for proposed housing project of B1+B2+G+12 (A-Block) and B1+B2+G+12 (B-Block) residential cum commercial building over an total built up area 23568.11 sqm. located in Mouza - Jagamara, Bhubaneswar, Dist – Khurda, Odisha.
2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006, as amended from time to time; this project falls under Category “B”, Project or Activity 8(a) Building and Construction projects (EIA Notification dated 14th Sep, 2006 as amended on 2009).
3. Stalwart Projects Private Limited has awarded for Development of Private Housing Project 0.89 Acres of land at Plot No.:1146/2852, 1145/2853, 1146, 1145, 1157,1158/3181, 1141, Kht No.: 1133/66, 1133/1954, 1133/435, 1133/3181, 1133/7230 Near NH-16 Road, at Mouza -Jagamara, Bhubaneswar, Khurda, Odisha-754005.

4. **Location and Connectivity** – The proposed site is located at mouza- Jagamara, Bhubaneswar, Dist – Khurda, Odisha. The Geographical co-ordinate of the project site is Latitude 20°15'17.9"N & Longitude 85°48'10.2"E. River Bhargabi is flowing at a distance of 8Km in the North direction. The Nearest Railway Stations are Retang at 2.7 Km. The nearest Airport is Biju Patnaik Airport, Bhubaneswar, which is approx. 0.5 km from the project site.
5. The site is coming under Bhubaneswar Development Authority.
6. BMC has provisionally approved the Building Plan vide Letter No. 74285, dated 05.10.2021.
7. Ground Water Clearance from CGWA vide NoC no. CGWA/NOC/INF/ORIG/2021/13660, dated 08.11.2021.
8. Height Clearance from AAI vide Letter No. BHUB/EAST/B/040121/538348, dated 23.04.2021.
9. The total plot area is 3590.10 sq.m with total built-up area 23568.11 Sqm.
10. The building details of the Project:

Particular	Proposed	Permissible
Project Name	Stalwart Project Pvt Ltd	--
Plot Area	3590.10 Sqm	--
Ground Coverage	1414.93 Sqm	--
FAR (Floor Area Ratio)	5.09	-
Total FAR Area	18308.98 Sqm	
Built up Area	23568.11 Sqm	--
Total Residential Area	16085.66 Sqm	
Total Commercial Area	1648.74 Sqmt	
Maximum Height	38 m	--
Green Belt Area	722 Sqm (20 %)	722 Sqm (20 %)
Road Area	1453.17 Sqm	
Parking Area	Basement 1: 2576.19 sqm Basement 2: 2640.81 sqm Ground Floor: 369.73 Sq.m Total – 5586.73 Sqm	5586.73 Sqm
Maximum No. of Floor	B1+B2+G+12	--
Power/Electricity Requirement & Sources	Total – 735.48 KW	--
No. of DG sets	1x750 KVA	--
Water requirement	68 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 100 KLD	--
Estimated Population-	Residential - 750 Nos.	--

Residential, Floating/visitors	Commercial, Commercial- 16nos.	Floating – 75 Nos.	
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11. **Water Requirement** – During operation phase water will be sourced from Ground Water. Fresh Water requirement is 68KLD as per consumption for the Residential People 750 @ 90 lpcd = 67.5 m<sup>3</sup>/day, Flushing for Residential People 750 @ 45 = 33.75 m<sup>3</sup>/day, Fresh Water Consumption for commercial people will be 16 nos @ 15 = 0.24 m<sup>3</sup>/day, Flushing for commercial people will be 16 @ 30 lpcd = 0.48 m<sup>3</sup>/day. Floating People will be 75 nos @ 5 = 0.37 m<sup>3</sup>/day, Flushing for Floating People will be 75 @ 10 lpcd = 0.75 m<sup>3</sup>/day.

12. **Total no.of Rain water Harvesting pits** – 7 nos for the project.

13. **Power Requirement** - The total consolidated electrical load estimate for proposed project is about 735.48 KW. The power will be entirely supplied by source of TPCODL of Odisha State Electricity Board. Also, in case of power cut, 100 % power backup generator will be provided for common uses only. For this purpose diesel generator having 750 KVA (1 nos.) capacities will be provided.

Solar Street Lighting:

There are 40 nos of Solar Lighting poles (@72 Watt with panel for generation) has been proposed for Street lighting,

Energy conservation by using Solar Street Lighting = 40 x 72 = 2880 watt = 2.9 KW

Solar Lighting For Common Area

In the proposed area, we can propose 35 nos. of solar PV panels.

Therefore, total amount of electrical energy generated by 35 nos. of PV Solar panel = 12.07 KW-hr.

Assuming, only 4 hours of sunlight available throughout the day time, therefore electrical energy generated by 67 nos. of PV solar panel per day = 48.28 KW

Saving Using Solar System:

Total Energy Saving = (48.28 + 2.9) KW = 51.18 KW

Total Solar Energy saving = 51.18/735.48 = 0. 069 x 100 = 6.9 %

14. **Solid waste Management** - From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 337.5 kg/day.

Sl. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	750 @ 0.45 kg/day	337.5
2.	Floating Population	75 @ 0.15 kg/day	11.25
3.	Commercial population	16 @ 0.15 kg/day	2.4

4.	STP sludge	43.82
<b>Total Solid Waste Generated</b>		<b>394.97</b>

15. **Green Belt**- Green belt will be developed over an area of 722 Sqm (20 %)of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc..

16. **Parking Details** – Total parking area allocated to the project is 5586.73sqm/ 158ECS.

17. The project cost is ` 43 crores and Environmental Monitoring programme – 2.15 crores.

18. The proponent along with the consultant **M/s. Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** made a detailed presentation before the SEAC on the proposal on **22.12.2021**.

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 decided to take decision on the proposal after receipt of the following information / documents from the project proponent followed by site visit by the Sub-Committee of SEAC to the proposed site.

- (i) Source of water is stated to be ground water. Why cannot be sourced from water supply of CMC /WATCO/ PHD? Letter from appropriate authority be submitted that water supply from pipe water supply is not possible.
- (ii) PH of Ground water is found to be 6.9 which is very low against the standard of 6.5 - 8.5. Thus, from health point of view, measures to improve the same be submitted.
- (iii) Excess treated waste water is said to be discharged to nearby drain. Thus, the distance of the drain from the project boundary and the ownership / Row of the said land be submitted along with the permission from drain Authority to take the Addl. load of this project. Besides, the start & the fall out of the drain to which the treated waste water will be discharged be informed.
- (iv) No of rain water harvesting pits (RWHP) 05 Nos has been calculated based on maximum hourly rain fall of 120mm in 24hrs with retention time of 25mtrs and co-efficient of run-off of paved surface as 0.15. This calculation be re-visited taking in to consideration of hourly maximum rainfall in 24hours is past 30 years based on logical climate data with real time input an co-efficient of run-off & retention time or reference be submitted on their basis.
- (v) Parking in terms of ECS & space, both for 4 wheelers / 2 wheelers / Bicycle for residential apartment as well as commercial complex as per the norms showing the demarcation in the layout map be submitted, considering the residents, visitors & floating population for commercial complex as well be submitted.
- (vi) 722m<sup>2</sup> land (exactly 20%) has been stated to have been taken for green belt development. Green belt has been shown in patches and not continuous. As such, details of dimensions of green belt with continuous stretch surrounding the boundary with three tier plantation be submitted.
- (vii) Provisions of solar power (7.1%) of total power demand in stated to have been made. Details of plan and consumption calculation vis-s-vis the generation of the same be submitted.

- (viii) The proposed site is a very crowded area i.e NH-16 is at a distance 700 mtr, Airport at 500mtr, ITER at 400 mtr etc. Thus, traffic study must be undertaken by a domain expert / reputed institute at all the above intersecting points, considering traffic 10 years ahead and decongestion plan based on the study finding be submitted.
- (ix) Location of the DG set w.r.t predominant wind direction vis-à-vis the location of the apartment & commercial complex be submitted along with installation drawing of the exhaust pipe of the stack of DG Set be submitted.

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

#### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF BHAGABANPUR DECORATIVE STONE DEPOSIT FOR PRODUCTION OF DECORATIVE STONE @ 6,000 CUM / ANNUM SPREAD OVER AN AREA OF 17.547 HA. LOCATED AT VILLAGE-BHAGABANPUR, TAHASIL - KUKUDAKHANDI, DIST- GANJAM, ODISHA OF SRI SOBHAN KUMAR MAHAPATRA - EC**

1. The proposal is for Environmental Clearance of Bhagabanpur Decorative Stone Deposit for production of Decorative Stone @ 6,000 cum / annum spread over an area of 17.547 Ha. located at Village-Bhagabanpur, Tahasil - Kukudakhandi, Dist- Ganjam, Odisha of Sri Sobhan Kumar Mahapatra.
2. As per the EIA Notification S.O. 1533, dated 14th September 2006 and subsequent amendments, this project falls under Category B (B1) Project or Activity 1(a) Mining of minerals
3. Terms of Reference (ToR) has been granted by SEIAA, Odisha vide letter no. 9232/SEIAA, dated 14th October, 2020.
4. Baseline Data was collected from October 2020 to December 2020 (Post monsoon season).
5. The Public Consultation was conducted successfully on 27.10.2021 at 11.00 AM at Rajib Gandhi Seva Kendra Building at Lanjia Gram Panchayat of Ganjam district.
6. 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 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.
7. **Location and Connectivity** - 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<sup>0</sup>19'50.70" to 19<sup>0</sup>20'05.63" N and longitude 84<sup>0</sup>42'56.28" to 84<sup>0</sup>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.
8. 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.

9. 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.
10. 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.
11. **Method of Mining** - 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.
12. **Geological and Mineable Reserves** - The mine has the Geological reserve 16,38,164 cum and mineable reserve of 12,48,940cum.
13. **Production and waste management details** - 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 earmarked 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.
14. **Power Requirement** - 225 KVA shall be required which shall be met through DG Set.
15. **Water Requirement** - 2KLD of water shall be required which will be sourced from nearby villages.
16. **Rain Water Harvesting** - Rain water will be diverted to the mined out pits, which will be used for storage of rain water. A part of rain water will be used for dust suppression and green belt. Ground water will be recharged due to natural percolation method in the worked out pits. Rain Water Harvesting potential of the quarry area at the end of plan period =  $1.95 \times 10000 \times 0.7 \times 1300 / 1000 = 17,745 \text{ cum / annum}$ . After the plan period, total water requirement of the mine @4 KLD can be met from harvested rain water.
17. **Green Belt** – 0.275 Ha area will be planted in the 5 year plan period. 440 number of saplings will be planted as per the approved mining plan. 1.414 Ha will be planted by the end of conceptual period. Local species will be selected for plantation in consultation with DFO. Road side plantation will be carried out to control soil erosion and air pollution. Post plantation care will be taken properly to achieve Survival rate of 80-85%

to maintain suitable growth & tree density.

18. **Employment Potential** - Total number of employee will be around 30 which includes skilled, semi-skilled & unskilled category in the mine.
19. The **project cost** is ` 73.50 lakhs and Environmental Management Cost – 15.5lakhs and recurring cost is 3.85lakhs.
20. 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 decided to take decision on the proposal after receipt of the following information / documents from the project proponent

- i) Dump management with detail calculations of waste utilization / inventory / sale including its chemical characteristics be submitted.
- ii) Water management with rain water harvesting along with calculation be submitted.
- iii) Soil profile study undertaken by approved domain expert be submitted.
- iv) Silt management including SOP for silt management for desliting of surrounding water body(s) / Agricultural land be submitted.
- v) Proposed “Zero discharge” mechanism be submitted.
- vi) “NOC” from CGWA / permission from W.R Deptt. Govt. of Odisha for use of ground water be submitted.
- vii) Proposed budget for CSR / CER as per the law with due approval of the Govt. authority be submitted.
- viii) Certificate from the concerned mining officer that there is no mine within 500m radius of proposed quarry.
- ix) Certificate from the concerned DFO that there is no forest land involved in the lease area.
- x) Details of waste management along with the composition of waste is to be provided.

#### **ITEM NO. 06**

#### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR BASINGGORJA DECORATIVE STONE MINES OVER AN AREA OF 2.428 HECTARES IN VILLAGE - BASINGGORJA UNDER TAHASIL - GUNUPUR OF DISTRICT - RAYAGADA, ODISHA OF SRI G. R. SAMYUKTA – EC**

The project proponent didn't attend the meeting. The proposal has been deferred to next meeting.

## ITEM NO. 07

### **PROPOSAL FOR EXTENTION OF VALIDITY OF ENVIRONMENTAL CLEARANCE FOR GANGANAPUR DECORATIVE STONE DEPOSIT OVER 4.974 HA. IN VILLAGE GANGANAPUR, TAHASIL - PURUSOTTAMPUR, GANJAM FOR PRODUCTION OF DECORATIVE STONE @ 2980.50 CUM(MAXIMUM)/ANNUM OF SRI SIBARAM PATTNAYAK – EC**

1. The proposal is for Environmental Clearance of Ganganapur Decorative Stone Deposit over 4.974 Ha. in village Ganganapur, Tahasil - Purusottampur, Ganjam for production of decorative stone @ 2980.50 Cum(Maximum)/annum of Sri Sibaram Pattnayak.
2. As per the EIA Notification S.O. 1533, dated 14th September 2006 and subsequent amendments, this project falls under Category B (B1) Project or Activity 1(a) Mining of minerals
3. Mining Plan was approved by Directorate of Mines vide letter no. 9777, dated 31st October 2016.
4. Environmental Clearance was granted in favour of Ganganapur Decorative Stone Deposit by DEIAA, Ganjam, vide letter no.255/DEIAA, dated 29th April 2017, valid till 31st March 2021 for production of Decorative Stone @ 2980.50 CuM/Annum (Maximum).
5. Mining Lease for the said mine has been granted by Steel & Mines Department, Govt. of Odisha vide letter no.8326/SM, Bhubaneswar, dated 16th October 2021 valid for 30 years.
6. Mine is not operated yet due to delay in grant of Lease.
7. Proponent proposes for Extension of Environmental Clearance.
8. **Location and Connectivity** - Ganganapur Decorative Stone Deposit, over an area of 12.290 Acres or 4.974 Hectares is located in village Ganganapur under Purusottampur Tahasil of Ganjam District. The proposed lease area is bounded by latitude N19° 30' 11.00" – N19° 30' 17.80" and longitude E84° 47' 04.20" – E84° 47' 16.40" & It is a part of the area covered in the Survey of India Toposheet No. E 45 A 14 (74A/14). The lease area is accessible from Ganjam, the district headquarter, covering a distance of 25 km State Highway on Ganjam-Hinjilicut road up to Hinjilicut, further 12km metal road between Hinjilicut and Ganganapur via Sikiri. The nearest Railway station is Berhampur located at a distance of 40 km from the mine area. Other facilities like electricity, water are available at Hanumantapalli which is situated at 0.50 km from the lease area. Education upto class-V is available at Hanumantapalli village while education up-to high school level is available at Kolidaspur. Police station and Tahsil are located at Hinjilicut and Purushottampur respectively. Primary Hospital is located at Purushottampur and Postal facility is available at Kolidaspur.
9. The area is a hill ridge trending NE-SW with parts of intervening valleys with small bushes. There is no forest land in the M.L. area. The highest hill peak is in the northeastern part of the area and lowest is at the southwestern corner of the lease area. The highest and lowest altitude of the lease area is 61 mRL and 33 mRL respectively. There is neither any seasonal nor any perennial nalaflores

within the lease M.L. area. The drainage pattern of the area is dendritic. Surface run-off of the lease area is drained through the natural gradient. A canal is flowing almost parallel to the southern boundary of the lease M.L. joins with the Rushikulya River which flows at a distance of 0.50 km from the western boundary of the lease M.L. area and controls the drainage system of the region.

10. **Method of Mining** - During the mining plan period mining will be done by opencast semi-mechanized method will be adopted using machineries such as Excavator, Line offset, compressor, jack hammer, wire ropes & drill rod etc. Firstly the weathered zone of 0.5-1.0 m will be scraped from the top. After removal of weathered zone, drilling will be carried out by using jack hammers driven by air compressors as per the requirements adhering to the drilling norms. Both vertical & horizontal holes will be done to expedite wire saw cutter to detach the stone blocks from the quarry face. The Depth of the hole is proposed to be 2 m, 3 m & diameter will be 32mm.
11. **Geological and Mineable Reserves** - It has been estimated that the geological resource of the decorative stone deposit is 183621.00 m<sup>3</sup> and mineable reserve is 98140.50 m<sup>3</sup>.
12. **Production and waste management details** – The details of production of decorative stone and waste is mentioned in below table.

Year	Volume of Rocks	Volume of Marketable Ore	Volume of Blocks	Volume of Tiles	Volume of Waste
	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
1st Year	8415.00	2524.50	1691.42	833.09	5890.50
2nd Year	8685.00	2605.50	1745.69	859.82	6079.50
3rd Year	8865.00	2659.50	1781.87	877.64	6205.50
4th Year	9150.00	2745.00	1839.15	905.85	6405.00
5th Year	9935.00	2980.50	1996.94	983.57	6954.50
Total	45050.00	13515.00	9055.05	4459.95	31535.00

13. **Solid Waste Management** - The waste generated from the quarry is proposed to be dumped in earmarked site. 3.762 Ha. in conceptual period. About 40 % of wastes will be utilized in construction and maintenance of road. The wastes are proposed to be stacked maintaining the overall slope at less than 280 and to be sequentially graded, compacted and leveled. Retaining wall of 80 mtr and garland drain of 75 mtr will be erected around the dumping yard to arrest the washing off of loose sediments. Since the dump constitutes of rocky mass, no plantation of saplings on

the dump slope is envisaged.

14. **Power Requirement** - 100 KVA shall be required which shall be met through DG Set.
15. **Water Requirement** – 1.5KLD of water shall be required which will be sourced from nearby villages.
16. **Green Belt**– Total area provided for green belt is 2600sqm and 400 nos of saplings will be planted around safety zone.
17. **Employment Potential** - Total number of employee will be around 30 which includes skilled, semi-skilled & unskilled category in the mine.
18. The **project cost** is ` 2.5 Crores and Environmental Management Cost – Rs. 90,000 per annum.
19. 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 decided to take decision on the proposal after receipt of the following information / documents from the project proponent

- (i) EC granted by DEIAA in April '2017. So, compliance to earlier EC be submitted duly authenticated by appropriate authority.
- (ii) How far is Rushikulya Turtle nesting place from the project site? If nearer to the site, then measures w.r.t height & noise be submitted for avoiding distance of any nature to turtle nesting.
- (iii) Volume of rock mas / waste / non-saleable stone together is very high to the tune of 6, 12,070m<sup>3</sup>. So the management of the same on vis-à-vis basis be submitted.
- (iv) Source of water? Why not STP of low capacity?
- (v) Details of garland drain, settling pond, silt management to nearest surface run-off / wash off be submitted.
- (vi) Haulage road details be submitted.
- (vii) Dump management with detail calculations of waste utilization / inventory / sale including its chemical characteristics be submitted.
- (viii) Water management with rain water harvesting along with calculation be submitted.
- (ix) Soil profile study undertaken by approved domain expert be submitted.
- (x) Silt management including SOP for silt management for desilting of surrounding water body(s) / Agricultural land be submitted.
- (xi) Proposed "Zero discharge" mechanism be submitted.
- (xii) "NOC" from CGWA / permission from W.R Deptt. Govt. of Odisha for use of ground water be submitted.
- (xiii) Proposed budget for CSR / CER as per the law with due approval of the Govt. authority be submitted.

- (xiv) Certificate from the concerned mining officer that there is no mine within 500m radius of proposed quarry.
- (xv) Certificate from the concerned DFO that there is no forest land involved in the lease area.
- (xvi) Details of waste management along with the composition of waste is to be provided.

#### **ITEM NO. 08**

#### **PROPOSAL FOR ANUARY SAND QUARRY MINING ON RIVER MAHANADI OVER AN AREA OF 5.059 HA (12.50ACRE) IN VILLAGE PATUGADADHARPUR UNDER BANKI TAHASIL, CUTTACK DISTRICT, ODISHA (FINAL EIA/EMP SUBMITTED) OF SRI PATITA PABAN SWAIN – EC**

1. The proposal is for environmental clearance for Anuary Sand Quarry mining on River Mahanadi over an area of 5.059 Ha (12.50Acre) in village Patugadadharpur under Banki Tahasil, Cuttack district, Odisha of Sri Patita Paban Swain.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under Category “B” under item No-1(a)-‘Mining of Minerals’.
3. The lease Anuary Sand Quarry has been granted by the Tahsildar cum Competent Authority, Banki vide letter no. 54, dtd. 06.01.2020 for the period of five years to Patita Paban Swain, S/o – Pranakrushna Swain, At- Jhanjarmangala, Po-Badambadi, Banki,Cuttack,Orissa-753009 for five years.
4. The ToR for the said project was approved vide letter no. 8394/SEIAA dated 03.06.2020.
5. Public Hearing was conducted on 17.03.2021 at 11.30 AM at Multipurpose Food shelter at Baigani under Anuary Gram panchayat, under banki tahasil of Cuttack district.
6. Baseline data collection was during the period of December 2019 to February 2020.
7. The mining plan has been approved by the Deputy Director Geology, Directorate of Geology, Bhubaneswar, Odisha on dated 25.06.2019.
8. **Location and connectivity** - The project is located in survey of India toposheet no.73-H/7 & between latitude of 20021’33.20” N to 20021’31.20”N and longitudes of 85026’01.90”E to 85026’19.10”E. Baghamari railway station is at a distance of 35Km SE from the project site. The site is well connected to NH-224 at a distance of 17 Km South & SH at a distance of 9 Km North & it is sufficient for transportation of material and finished product.
9. The total geological reserve has been estimated as 107616 Cum. Similarly, the mineable reserve of river bed sand is worked out to be 97800 Cum. The project has been proposed for a total production of 162900 Cum of Sand (minor minerals) from this Quarry. During the plan period maximum of 32580 Cum of sand will be produced per annum by Open Cast Manual mining method. Excavation & loading of sand into the dumpers and trucks/tractors will be done manually.
10. **Water Requirement** – The total water requirement will be approx, 5.0 KLD for different purposes like Domestic, Dust suppression, plantation purposes.
11. **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.
12. **Employment Potential** - Total number of employee will be around 48 from which 2nos are supervisory personnel, 2nos are skilled laborers 14 are semi skilled laborers & remaining 30nos are unskilled employed during mining activities..

13. **Greenbelt plantation** – Plantation will be carried out for an area of 0.89Ha. by the lessee in vicinity of the river bank and avenue plantation to be undertaken in consultation with the concerned authority.
14. The project cost is estimated to be Rs. 10 lakhs and cost towards environmental management plan is Rs. 4 lakhs.
15. The Environment consultant **M/s Kalyani Laboratories 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 Kalyani Laboratories Pvt. Ltd., Bhubaneswar**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent.

- (i) Information such as width of the river, mining area vis-à-vis lease area, no mining zone, distance of lease boundary from river bank distance of major bridge (S) & Highways / Public civil structure / water installation on both side is up stream & downstream in terms of guideline of MoEF & CC on Sand Mining Management of indicating the standard norms against each such above features.
- (i) The PP had not indicated during presentation about Replenishment study. If they have undertaken, they need to submit a copy of the same. If not, they need to undertake the study in the second year of mining and based on the findings, they shall make course correction in mining in subsequent years on the recommendation of RQP and Mining Plan Approving Authority. This is to be put as a specific condition.
- (ii) Confirmation of stone patching on river bank with plantation in between indicating the stretch with dimension, leaving the ramp.
- (iii) Plantation, specific sprinkling arrangement with SOP to mitigate dust emission on haulage road and avenue plantation.
- (iv) Permission from BDO in case of use of Panchayat Road (if any) for transportation of sand including maintenance of the same by PP.
- (v) Provision of Bio-Toilet.
- (vi) Construction of ramp on the river bank & haulage road (other than village road)
- (vii) Stone patching with plantation in between on the river bank as required in connection with W.R deptt, Govt of Odisha.
- (viii) Maintenance of village road as raised during public hearing.
- (ix) Avenue plantation besides plantations on both sides' village road & haulage road.
- (x) Perennial sprinkling on haulage road to arrest fugitive dust emissions.

#### **ITEM NO. 09**

#### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. ODISHA BRIDGE & CONSTRUCTION CORPORATION LIMITED (OB&CC) FOR REDEVELOPMENT OF SRIRAM CHANDRA BHANJA (SCB), MEDICAL COLLEGE & HOSPITAL(PHASE-1), CUTTACK, ODISHA OVER AN AREA 136.36 AC OR 55.18 HA OF SRI PRADIPTA KUMAR BAL - EC**

In view of urgency of infrastructure development to tackle Covid 19 pandemic, the Committee decided to forward the recommendation of SCB Medical College and Hospital separately. The proceedings have been forwarded to the SEIAA, Odisha for grant of EC.

## **ITEM NO. 10**

### **PROPOSAL FOR “SIKSHA ‘O’ ANUSANDHAN DEEMED TO BE UNIVERSITY” CAMPUS-II (SUM ULTIMATE MEDICARE) AT MOUZA GHATIKIA, KALINGA NAGAR, BHUBANESWAR, DISTRICT-KHORDHA**

A Joint meeting was held in SEIAA office on 18.12.2021 with Secretary, SEAC and other concerned members of SEAC on the appraisal of Sum Hospital and Sum Ultimate Proposals. In the meeting, it was decided to appraise both the proposals covering the following aspects.

1. List of the buildings built before 14.9.2006 i.e. coming into force of the EIA Notification, 2006 and their built up area of each.
2. List of buildings covered by the EC granted on 19.12.2013 for 50,553 sqmtr. of builtup area. Classify these buildings into hospital buildings and educational institute / hostel buildings.
3. List of the buildings subsequently constructed after 22.12.2014. Classify the buildings into hospital buildings and educational institute/hostel buildings. Identify the buildings from this list which are the hospital buildings covered by the EC granted in 2013.
4. List of buildings constructed after 22.12.2014 but not covered by the EC of 2013.

Accordingly, the project proponent was requested to furnish the desired information for both proposals in prescribed format suggested by the SEIAA, Odisha. The proponent has furnished the desired information in the prescribed format and it was appraised in the SEAC meeting held on 22.12.2021.

The Committee also opined that since, the built-up area less than 150000 sqm and clinical area less than 20,000 sqm, prior Environmental Clearance may be granted to increase the clinical area from 15669.32 m<sup>2</sup> to 23961.81 m<sup>2</sup> by additional clinical area construction of 8192.49 m<sup>2</sup>, within over all construction below 150000 m<sup>2</sup> with specific and standard conditions as recommended by the SEAC earlier.

After detailed discussion, it was decided that the Secretary, SEAC may forward the desired information to SEIAA, Odisha separately with a request to take further action on the proposal for grant of Environmental Clearance. Letter has already been sent to the SEIAA, Odisha.

## **ITEM NO. 11**

### **PROPOSAL FOR CONSTRUCTION AND EXPANSION OF EXISTING CLINICAL AREA FROM 13,543 SQM TO 69,911 SQM OF “IMS & SUM HOSPITAL” WITHIN THE PREMISES OF CAMPUS-III HAVING INSTITUTIONAL AREA -78855.7 SQM, OVER PLOT NO. F1,F2,F3,C1,C2,C3,C4 & C5 AT MOUZA – GHATIKIA UNDER BHUBANESWAR OF SIKSHA “O” ANUSANDHAN UNIVERSITY**

A Joint meeting was held in SEIAA office on 18.12.2021 with Secretary, SEAC and other concerned members of SEAC on the appraisal of Sum Hospital and Sum Ultimate Proposals. In the meeting, it was decided to appraise both the proposals covering the following aspects.

1. List of the buildings built before 14.9.2006 i.e. coming into force of the EIA Notification, 2006 and their built up area of each.



2. List of buildings covered by the EC granted on 19.12.2013 for 50,553 sqmtr. of built up area. Classify these buildings into hospital buildings and educational institute / hostel buildings.
3. List of the buildings subsequently constructed after 22.12.2014. Classify the buildings into hospital buildings and educational institute/hostel buildings. Identify the buildings from this list which are the hospital buildings covered by the EC granted in 2013.
4. List of buildings constructed after 22.12.2014 but not covered by the EC of 2013.


Accordingly, the project proponent was requested to furnish the desired information for both proposals in prescribed format suggested by the SEIAA, Odisha. The proponent has furnished the desired information in the prescribed format and it was appraised in the SEAC meeting held on 22.12.2021.

The Committee also opined that since, the built-up area less than 150000 sqm and clinical area less than 20,000 sqm, prior Environmental Clearance may be granted to increase the clinical area from 13543 m<sup>2</sup> to 73511.92 m<sup>2</sup> by (i) converting 47833 m<sup>2</sup> form institutional to clinical and (ii) by new construction of 12135.92 m<sup>2</sup> within over all construction below 150000 m<sup>2</sup> with specific and standard conditions as recommended by the SEAC earlier.

After detailed discussion, it was decided that the Secretary, SEAC may forward the desired information to SEIAA, Odisha separately with a request to take further action on the proposal for grant of Environmental Clearance. Letter has already been sent to the SEIAA, Odisha.

**Approved**

  
**Secretary, SEAC**

  
**Chairman, SEAC**  
(B.P. SINGH)