

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 11<sup>TH</sup> FEBRUARY, 2022**

The SEAC met on 11<sup>th</sup> February, 2022 at 10:30 AM through Video Conferencing in Google Meet under the Chairmanship of Sri B. P. Singh. The following members were present in the meeting.

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

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

**ITEM NO. 01**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR PROPOSED HOUSING PROJECT FOR ENVIRONMENT CLEARANCE FOR (S+11) STORIED RESIDENTIAL BUILDING PLAN OVER AN BUILT UP AREA 23402.47 SQRM LOCATED AT-SAMBALPUR TOWN UNIT NO.-15, AINTHAPALI, THANA: SAMBALPUR NO-12, TAHASIL: SAMBALPUR NO.- 239, DISTRICT: SAMBALPUR FOR M/S BALAJI BUILDERS AND DEVELOPERS OF SRI GIRIDHAR AGARWAL – EC**

1. This is a proposal of housing project for Environment Clearance for (S+11) storied residential building plan over an built up area 23402.47 sqrm located at- Sambalpur Town Unit no.-15, Ainthapali, Thana: Sambalpur No-12, Tahasil: Sambalpur No.- 239, District: Sambalpur. The project will be developed by M/s Balaji Builders & Developers.
2. The project falls under category “B” or activity 8 (a) - Building and Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. The proposed site is located at Sambalpur Town Unit No.-15, Ainthapali and Thana: Sambalpur No-12, Tahasil: Sambalpur No- 239, District: Sambalpur, Odisha. The Geographical co-ordinate of the project site is Latitude -21°29'2.21"N & Longitude 83°59'22.90"E. The project site is well connected with National Highway – 53 at a distance of 0.5 Km. The nearest railway station is Sambalpur Junction at a distance of approx 3 Km in South West direction. The nearest airport is Jharsuguda Airport, Bhubaneswar at a distance of approx. 11 Km in North direction from project site.

**4. Area Details of the Project are given below:**

Particular	Proposed	Permissible
Project Name	Proposed (S+11) storeyed Residential building plan of <b>M/s Balaji builders &amp; developers.</b>	
Plot Area	2.303 Acre or 100318.00 Sq.Ft or 9323.23 Sqm	--
Ground Coverage	33110.24 Sft (33%)	--

Particular	Proposed	Permissible
Total Built up Area	302563.40 Sqft or 28119.27 Sqm	--
Total FAR Area	23392.79 Sqm	--
FAR	2.51	--
Road & Paved Area	4657.65 Sqm	--
Parking Area	63225.17 Sq.Ft	62975.53 Sq.Ft
Green Belt Area	20130.76 Sft (20 % of Plot area)	20063.6 Sq.Ft (20 % of Plot area)
Power/Electricity Requirement & Sources	715 KW (WESCO, Sambalpur)	--
No. of DG sets	1 x 500 KVA	--
Fresh Water requirement & Sources	86.49 KLD Source-Ground Water	--
Sewage Treatment & Disposal	STP Capacity 150 KLD	--
Estimated Population-Residential, Floating/visitors	930 nos.	--
Estimated Population-Commercial, Floating/visitors	93 nos.	--

5. **Power requirement:** The daily power requirement for the proposed Private Developer Project is preliminarily assessed as 715 KW source from WESCO Sambalpur Electricity Board. In order to meet emergency power requirements during the grid failure, there is provision of 1 nos. of DG set having 500 KVA capacities for power back up in the Private Housing Project.
6. **Water requirement:** For major construction activities daily requirement of water will be Construction (Peak)@0.6cum/1000sqm BUA 14.04 m<sup>3</sup> (peak demand) per day. Water consumption for the Non-resident laborers will be 35 @ 30 lpcd = 1050 liters. Water consumption for the resident laborers will be 14 @ 70 lpcd = 980 liters. Therefore, during the construction phase, total daily water requirement will be 14040 liters + 1050 liters + 980 liters = 16070 liters = 16.07 m<sup>3</sup>/day. This will be sourced by Private tankers. During operation phase water will be sourced from Ground Water. Fresh Water consumption for the Residential People 930 @ 90 lpcd = 83.7 m<sup>3</sup>/day, Flushing for Residential People 930 @ 45 = 41.85 m<sup>3</sup>/day, Fresh Water Consumption for Floating People will be 93 nos @ 30 = 2.79 m<sup>3</sup>/day, Flushing for Floating People will be 93 @ 15 lpcd = 1.39 m<sup>3</sup>/day.
7. **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).
8. **Green Belt Development:** Green belt will be developed over an area of 20130.76 Sqft (20 %) of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.
9. **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 418.5 kg/day.

Sl. No.	Category	Counts (heads)	Waste generated
1.	Residents	930 @ 0.45 kg/day	418.5 kg/day
2.	Floating population in residents	93 @ 0.15 kg/day	13.95 kg/day
3.	STP sludge		55.13 kg/day
<b>Total Solid Waste Generated</b>			<b>487.5 kg/day</b>

10. **The cost of the project is ` 45 Crores.**

11. The Environment consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, 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 Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of the sub-committee of SEAC.

- i) Kisam of the entire land on which the construction of the residential colony is proposed need to be necessarily "Gharabari" for which PP must submit the "Khatian" from the appropriate Revenue Authority and if Kissam of land other than Gharabari needs to be converted without which construction work shall not start.
- ii) Copy of approval letter from concerned authority for construction of building in 12 mtr wide govt. road.
- iii) Google Layout map showing the distance of all sensitive places from project site.
- iv) Possibility of exploration of river water/PHED rather depending on ground water.
- v) Detail analysis of Ground water and river water to be submitted.
- vi) Layout of internal drains / sewer along with ownership of the land / Row since the same need to be in favour of PP.
- vii) Permission of the authority of the drain / sewer to take the addl. load of this proposed project including the scheduled operation of the sewer.
- viii) Layout of drainage system and exact distance of project site to nearest drain and outfall of drain.
- ix) Parking in terms of space and ECS for 4 wheelers, 2 wheelers including bicycles be calculated separately for dwellers & visitors (floating population) indicating the norm as well and showing it in the layout map & be submitted.
- x) Details of DG sets to be installed at the suitable places after due consideration of pre-dominant wind direction to avoid air pollution from entering the dwelling house of the colony. DG set location w.r.t wind direction, stack height with layout / installation and drawing of the stack / exhaust pipe be submitted, considering cumulative capacity(s) of all DG sets and height of the tallest tower.
- xi) Revised Green belt of plot area along with detail calculation with dimension continuous around the boundary showing in the layout map be submitted. Details of species to be mentioned.
- xii) Fire clearance from the appropriate authority need to be obtained and their observations is to be submitted.
- xiii) Plan of consumption of solar power with exact calculations to be submitted and increase the Solar power usage to 5% of total power load.
- xiv) Calculation of number of proposed Rain water harvesting pits appears to be wrong and hence to be recalculated and re submitted. Maximum hourly rainfall be taken based on 30 years data (Climate logic data) and accordingly, no. of rain water harvesting pits be calculated / decided along with the design of the pit including retention time (hold) showing the norms for the same. Thus, this is to be re-submitted.

- xv) Traffic study should be undertaken from reputed Institute and its findings in terms of LOS (Level of Service) as per IRC norm to be submitted and mitigation plan as and if necessary be submitted.
- xvi) Provisional approved plan from concerned Development Authority be submitted, being a basic document for a housing Project.
- xvii) Water requirement calculation to be revisited and re- calculated & re - submitted and accordingly, the water management as and if necessary.

**ITEM NO. 02**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KIMS MEDICAL COLLEGE & HOSPITAL, OVER AN AREA 7.795 HA. SQM. PLOT NO: 24,25,12/A, 12/C, 14/A & 14/B, MOUZA: PATIA, TAHASIL: BHUBANESWAR, DIST: KHURDA OF SRI RABINDRA NATH DASH – EC**

The project proponent intimated that they will not available for the meeting due to unavoidable circumstances and requested to defer the case to next meeting. The SEAC decided to defer the case to next meeting.

**ITEM NO. 03**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR PROPOSED HOUSING PROJECT FOR ENVIRONMENT CLEARANCE FOR LB+UB+LG+UG+21 COMMERCIAL AND RESIDENTIAL BUILDINGS OVER AN BUILT-UP AREA 40030.21 M<sup>2</sup> LOCATED AT MOUZA- BIDYADHARPUR-6, TAHASIL -CUTTACK SADAR, DIST-CUTTACK OF M/S GRAND BAZAAR DEVELOPERS LLP OF SRI VINEET MOHAN GUPTA – EC**

1. This is a proposal for housing project for Environment Clearance for LB+UB+LG+UG+21 commercial and residential buildings over a built-up area 40030.21 m<sup>2</sup> located At Mouza-Bidyadharpur-6, Tahasil - Cuttack Sadar, Dist-Cuttack. M/s Grand Bazaar Developers LLP is the developer of this project.
2. The project falls under category “B” or activity 8 (a) - Building and Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. M/s Grand Bazaar Developers LLP. is developing the site in partnership with Bhubaneswar Development Authority (PPP Mode). The project (PPP) guidelines stipulate 1.331 acres land area allocation for Housing, while remaining land will be utilized for private development based on the market dynamics and development guidelines.
4. The proposed site is located at Bidanasi Project Area, Mouza-Bidyadharpur-6, PS-Market Nagar, Tahasil-Cuttack sadar, Dist-Cuttack. The Geographical co-ordinate of the project site is: Latitude -20° 28’ 44.03” N & Longitude - 85° 49’ 02.01” E and and the area comes under Survey of India Toposheet No-73H/11, 73H/12, 73H/15, 73H/16. The project site is well connected with National Highway-16 (AH-45) (Jharpokharia-Chennai Road).
5. The maximum temperature is about 36.0° C and the minimum temperature is 16.0° C felt in the area. The average annual rainfall in the area is 1326.16 mm.

**6. Building details of the Project are as follows:**

<b>Total Plot Area</b>	<b>:</b>	<b>5309.47 sqm</b>
Kisam of Land	:	Gharabari

Residential Builtup Area	:	26,023.2 sqm
Commercial Builtup Area	:	4,159.72 sqm
<b>Total Builtup Area</b>	:	<b>26,456.4 sqm</b>
Ground Coverage	:	2,258.00 sqm
Road & Paved Area	:	1,989.67 sqm
Green Belt Area	:	1,061.8 sqm
Total Parking Area	:	9,292.16 sqm
Height of the Building	:	82.50 m

7. **Water requirement:** Fresh make up of **72 m<sup>3</sup>/day** will be required for the project which will be sourced from Ground water. Waste water of 93.9 KLD will be treated in a STP of 100 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Near Drain.

8. **Power requirement:** The daily power requirement for the proposed building is preliminarily assessed as 1419 KW. In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG set having 700 KVA capacities for power back up in the proposed Building Project.

**9. ENERGY CONSERVATION BY SOLAR LIGHTING:**

i) **Solar Street Lighting:** There are 20 nos of Solar Lighting poles (@72 Watt with panel for generation) has been proposed for Street lighting,

ii) **Energy conservation by using Solar Street Lighting** =  $20 \times 72 = 1440 \text{ watt} = 1.4 \text{ KW}$

iii) **Solar Lighting for common area:**

In the proposed area, we can propose 80 nos. of solar PV panels.

Size of each PV solar panel = 1.560 m x 1.05 m

Therefore, area covered by single PV solar panel = 1.638 m<sup>2</sup>

Therefore, Total area covered by 80 nos. of PV solar panels = 131.04 m<sup>2</sup> (Roof Top)

Total Roof Area of the project is 2258 sqm

Each PV Solar panel generates energy through solar rays = 345 Watts-hr

Therefore, total amount of electrical energy generated by 80 nos. of PV Solar panel = 27.60 KW-hr.

Assuming, only 4 hours of sunlight available throughout the day time, therefore electrical energy generated by 80 nos. of PV solar panel per day = 110.4 KW

iv) **Saving Using Solar System:**

Total Energy Saving =  $(110.4 + 1.4) \text{ KW} = 111.8 \text{ KW}$

v) **Total Solar Energy saving** =  $111.8/1419 = 0.0787 \times 100 = 7.8 \%$

10. **Rain Water Harvesting:** Rain Water will be harvested through 4 nos. of recharging pits.

11. **Green Belt Development:** Green belt will be developed over an area of 1,061.8 sqm which is 20 % of the plot area; by using the local species like Neem, Karang, Golden Champa, Bakul, Bela, Bottle Palm, Cheekoo, Guava etc.

**12. Solid Waste Management:**

Solid Waste from Residential Population - 342 kg/day

Solid Waste from Commercial Population- 15.0 kg/day

Solid Waste from Floating Population - 30.0 kg/day

STP Sludge - 46.95 kg/day

**Total Solid Waste Generation - 433.95 kg/day**

13. Estimated Project cost:

Total Capital Cost = ` 70 Crores

Environment Management Cost = ` 2.2 Lakhs

14. The Environment consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, 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 Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar**, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by site visit of the sub-committee of SEAC.

- i) Land document and "Kissam" of the land.
- ii) Since, this being a flood prone area, detailed SOP for proper management of the flood to be submitted along with Structural Stability Certificate from the reputed institution.
- iii) The Housing project with more than 21 storied building will be constructed 15 meter away from embankment of river Kathajodi. There will be risk to river embankment during construction of the project and may be erosion problem. The proponent shall obtain permission from the Water Resources Department, Govt. of Odisha before going for construction activity with regard to the safety and stability of proposed housing project.
- iv) Layout map showing different parking area for commercial and residential, visitors and floating population.
- v) Soil quality test report to be submitted.
- vi) Google Layout map showing the distance of all sensitive places from project site.
- vii) Possibility of exploration of river water/PHED rather depending on ground water.
- viii) Detail analysis of Ground water and river water to be submitted.
- ix) Layout of internal drains / sewer along with ownership of the land / Row since the same need to be in favour of PP.
- x) Permission of the authority of the drain / sewer to take the addl. load of this proposed project including the scheduled operation of the sewer.

- xi) Layout of drainage system and exact distance of project site to nearest drain and outfall of drain.
- xii) Parking in terms of space and ECS for 4 wheelers, 2 wheelers including bicycles be calculated separately for dwellers & visitors (floating population) indicating the norm as well and showing it in the layout map & be submitted.
- xiii) Details of DG sets to be installed at the suitable places after due consideration of pre-dominant wind direction to avoid air pollution from entering the dwelling house of the colony. DG set location w.r.t wind direction, stack height with layout / installation and drawing of the stack / exhaust pipe be submitted, considering cumulative capacity(s) of all DG sets and height of the tallest tower.
- xiv) Revised Green belt of plot area along with detail calculation with dimension continuous around the boundary showing in the layout map be submitted. Details of species to be mentioned.
- xv) Fire clearance from the appropriate authority need to be obtained and their observations is to be submitted.
- xvi) Plan of consumption of solar power with exact calculations to be submitted and increase the Solar power usage to 5% of total power load.
- xvii) Calculation of number of proposed Rain water harvesting pits appears to be wrong and hence to be recalculated and re submitted. Maximum hourly rainfall be taken based on 30 years data (Climate logic data) and accordingly, no. of rain water harvesting pits be calculated / decided along with the design of the pit including retention time (hold) showing the norms for the same. Thus, this is to be re-submitted.
- xviii) Traffic study should be undertaken from reputed Institute and its findings in terms of LOS (Level of Service) as per IRC norm to be submitted and mitigation plan as and if necessary be submitted.
- xix) Separate Entry & Exit Gates with appropriate dimensions to be provisioned, shown in the layout map and be submitted.
- xx) Structural stability Study including river bank erosion/ site soil testing be done by NIT, Rourkela as stated by the consultant during presentation besides second opinion from W.R. Department, Government of Odisha on the same as the project is in close proximate to the river.
- xxi) STP capacity of 100KLD against requirement for treatment of 93.9 KLD waste water is inadequate and the same be 10 to 20 percent extra and therefore, suitable STP capacity be confirmed.

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

#### **PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KIRLA SAND QUARRY OVER AN AREA OF 10.117 HA FOR PRODUCTION OF 6,179 CUM/ANNUM, AT VILLAGE-KIRLA, TEHSIL: KANTAMAL, DISTRICT: BOUDH OF SRI PRAKASH CHANDRA MEHER- EC**

1. Kirla sand bed mining project is located at Village: Kirla, Tehsil: Kantamal & District: Boudh, Odisha over an area of 10.117 Ha. The project has been proposed by Sri Prakash Chandra Meher. The Letter of intent has been issued vide letter no. 2345 on dated 16.10.2020 by Tehsildar, Kantamal for a period of five years. Mining Plan has been approved by Directorate of Geology South zone; Berhampur vide letter no. 819/ SZ dated- 22.06.2020. The proposed production is 6,179 cum /year. The estimated project cost is Rs 50 Lakhs. As per EIA notification 2006 and its subsequent amendment thereof proposed project fall in category B1. **Location:** Khata No. 137, Plot No. 214, Village-

Kirla, Tahasil- Kantamal, District-Boudh, State-Odisha. Latitude is 20°48'21.34" to 20°48'31.50" N and Longitude is 83°48'27.29" E to 83°48'40.73"E.

2. Proposed Production – 6179 cum/year of Sand. Railway Station – Bolangir Railway Station is approx 35.10 km towards SW direction. Airport - Biju Patnaik International Airport is approx 218 km towards SE direction. NH-224 is approx 3.40 km in NW direction. Road bridge is Subrnepali over Tel River at a distance of 10.75 Km from lease area in NE direction. Gabajore village is 1.0 km from the proposed area in SE direction. Arjunapur Reserve Forest, approx. 3.7 Km NE, Bairikhaman RF, approx. 6.29 Km SW.
3. **Basic requirements for the project:**
  - i) **Manpower:** About 14 persons will be given employment to the people of nearby villages.
  - ii) **Water:** There is requirement of approx. 8.5 KLD water for this project. 0.2 KLD will be for drinking/domestic purpose which will be abstracted from old ground water source. For other purpose water will be taken from mine.
4. **Mining Method:** Mining will be done by manual method without adoption of drilling & blasting. Since the depth of sand deposit is 1m, excavator, handpicks, spade, hand shovel will be used by laborers for extracting & loading of sand. The proposed mined out areas will gradually get filled up by river sands transported with water from upstream direction. The proposed mined out areas will gradually get filled up by river sands transported with water from upstream direction.
5. **Waste Generation:** This is RBM project not involving waste generation. The sand is directly loaded in trucks/trolleys etc. and sent to markets. Thus, no waste dump sites are needed to such projects.
6. **Baseline Study:** Baseline data on ambient air quality, water quality, noise level, soil, flora and fauna Site-specific meteorological data have been collected for post-monsoon season during October, 2020 to December, 2020.
7. **Public Hearing:** The public hearing has been conducted on 25.08.2021 at Plot No. 214, Near Kirla Patarphadi of Boudh District, Odisha.
8. **During public hearing all villagers have raised the following issues:**
  - Possibility of damage to the river banks & flooding of nearby agricultural land.
  - Pollution due to mining, loading & transportation.
  - They also asked about benefits of projects to villagers.
  - Repair of transportation route.
  - They requested to stop illegal mining
9. Mine manager ensured to the public that mining will be by manual method only upto 1.0 depth. Transportation route & vehicle will be regularly maintained by PP to reduce the chances of accident. Water sprinkling will be done on regular basis to control dust emission & plantation will be carried out along transportation route & in village which act as a sink of the pollutants. Beside this PP will do development



works in village under CER budget.

**10. Greenbelt Development:**

Plantation will be done in mining lease approach road. About 1500 number of trees will be planted along approach road in the first year & at other place after consultation with the local authorities.

11. Estimated cost of the project is ` 50.0 lakh., About 2% of the project cost will be used for the development of the social infrastructure of the area and EMP budget is About ` 7.0 lakhs (Capital), ` 2.6 lakhs (recurring)
12. The project will prove beneficial to the people as the company has already agreed to provide infrastructural facilities to the villagers like educational facilities, medical facilities, Transportation facilities, water supply etc. which will improve the socio-economic environment of the area.
13. The Environment consultant **M/s P&M Solution, C-88, Sector 65, Noida** along with the proponent has made a presentation on the proposal before the Committee.

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

- i) Since the deposition is 6 times of extraction as per the findings of Replenishment study, Mining plan shall be revised in consonance with the replenishment study carried out so that a balance of extraction and deposition could be achieved. Revised mining plan shall be re- submitted with due approval of Mining Authority and Tahsildar concerned.
- ii) Justification by Tahasildar why less excavation of sand taking 1 meter depth for mining when there is 6 times more availability of sand than proposed.
- iii) Since, it is a flood prone area and as raised during public Hearing, river bank erosion to be addressed by stone patching of the river bank with plantation in between and the details with dimensions be submitted in reference to revised Mining plan.
- iv) Besides, responsibility of haulage road maintenance and dust suppression arrangements be submitted.
- v) Permission from concerned BDO be submitted for use of Panchayat/ village road for transportation of minerals.
- vi) Provision of Bio-toilet and Avenue Plantation be confirmed with details.

**ITEM NO. 05**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR UPPER LANTH IRRIGATION PROJECT FOR CONSTRUCTION OF A HOMOGENOUS EARTH FILL DAM ACROSS RIVER LANTH AT VILLAGE - CHIKILI, TEHSIL - BELPARA, DISTRICT - BOLANGIR, WITH CCA, OF 4700 HA AND CONSTRUCTION OF MICRO HYDRO- ELECTRIC POWER PLANT OF 210 KW CAPACITIES ON LEFT MAIN CANAL FOR PADAMPUR INVESTIGATION DIVISION DEPARTMENT OF WATER RESOURCES OF SRI KULAMANI SETHY – EC**

1. Upper Lanth Irrigation Project is planned by Govt. of Odisha on River Lanth, a tributary of River Tel in Mahanadi basin, to provide a permanent relief to the people of Belpada block whose agricultural production is severely stressed due to erratic rainfall by irrigating 4700 ha of CCA at an investment cost of Rs. 30099.16 lakhs.
2. The project is located near village Chikili in Belpara Block under Patnagarh Subdivision of Bolangir District, Odisha at a distance of 75 km from Bolangir town. The locational coordinates are Longitude: 82° 53' 20" E and Latitude: 20° 38' 50" N in the toposheets having no. 64P/2, 64L/14, 64 L/10.
3. The Project Proponent is Chief Engineer, Planning, Water Resources Department Government of Odisha.
4. The proposed project having CCA 4700 ha comes under "B2" category as the CCA lies between 2000 and 10000 ha as per the MoEF&CC notification dated 14<sup>th</sup> August, 2018.
5. **Stage - I** Forest clearance for 314.23 ha forest land has been granted by MoEF&CC vide ltr no. F.No.8-59/2018-FC dated 21.12.2018 with conditions.
6. **Stage-II** – In compliance to the conditions stipulated in Stage-I Forest Clearance the cost of NPV of Rs. 29,79,69,446.00 CA & 25% of CA of Rs.5,48,13,600.00 and CATP of Rs. 2,23,19,500.00 have been deposited in CAMPA account after due approval of Government.
7. The catchment area of project is 189.07 sq. km. The 75% dependable annual yield from the catchment works out to 4697.27 Ham. The utilization planned for irrigation and drinking purpose has been kept as 41.27 MCM (keeping 10% as future utilisation).
8. This project involves construction of a homogenous earth fill dam of 2495 m long and 23.5 m maximum height with a solid gravity type of spillway of 99.00 m long having 7 gates, each being 12 m x 6.5 m size with crest level at EL 289.50 m; Two head regulators for two main canals; LMC=16.08 km, RMC=6.66 km; a micro Hydel plant on the head of left main canal with 210 KW power generations and a provision of 2.19 MCM of surface water has been kept to provide drinking water for the villages of the command.
9. Total land required for this project is 877.2 ha, which includes forest land of 341.23 ha., Govt. land of 139.83 ha and Private land of 396.14 ha. Two villages namely Jamjuri and Pondkimal will be affected due to submergence. Cross drainage structures will be provided where streams will be cut by canal.
10. Total annual irrigation will be 6105 ha. At present the production of paddy is reported to the tune of 14 - 17 quintals per ha. which will be increased to 42 to 45 quintals per ha after irrigation and accordingly the farmers will get the financial benefit.
11. The study area covers project area i.e., where the dam will be constructed and the area of 10 km radius from the proposed dam site.
12. According to the Terms of Reference (ToR), three season's baseline data i.e. of premonsoon data from 1<sup>st</sup> Mar to 31<sup>st</sup> May, 2019, monsoon data from 1<sup>st</sup> June to 31<sup>st</sup> August, 2019 and winter data from 1<sup>st</sup> November 2019 to 31<sup>st</sup> January, 2020 were collected for all the environmental parameters.
13. The existing ambient air quality of six locations of the study area was analysed in terms of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> and CO and are found to be within the permissible standard of

CPCB. Similarly, five surface water and five groundwater samples were analysed for different parameters and the result seems to be within the permissible limit. The noise levels of day and night time were recorded at six different locations and observed that the recorded level is within permissible limit for residential area. Six soil samples were analysed for 15 parameters.

14. The highest elevation in the study area is 560 m AMSL whereas the lowest elevation is 260 m AMSL. In general, the slope of the study area is south-east. The project area comes under seismic zone-II which is low damage risk zone.
15. Based on floral survey conducted in the study area, a total of 124 plant species (65 trees, 28 shrubs and 31 herbs and grasses) were reported. A total of 19 species of mammals, 18 species of reptiles and amphibians, 42 species of birds and 15 species of butterflies were recorded from the faunal study.
16. Besides, there are 5 species of Schedule I, 12 species of Schedule II, 08 species of Schedule III, 46 species of Schedule IV and 8 species of Schedule V were recorded which also indicates that no such rare endangered species were present in the study area.
17. Implementation of feasible and cost effective mitigation measures and Environmental Management Plans will reduce the adverse impacts to substantial extent or bring down the levels of impacts within limits at different stages of the project and enhance positive impacts.
18. The project proponent has to prepare a new revised R&R scheme and get it approved before displacement of habitation for execution of project work.
19. Monitoring activities in the specific areas are to be carried out regularly by the designated unit and the results evaluated by the project management authority to adopt suitable control strategies so that menace of rising environmental degradation could be minimized and a relief be extended to the people including labours in case of any damage caused under occupational health hazards. An amount of ₹56,60,000.00 and ₹6,06,000.00 has been budgeted for environmental monitoring during construction phase of five years and for operation phase of three years respectively.
20. Due to implementation of this project, many labourers from the nearby villages will get engagement during the construction phase; production of paddy will increase from 17 quintals per ha to 45 quintals per ha after irrigation; 2.19 MCM of surface water will be provided for drinking water to the villages and 210 KW electricity will be generated by installation of a Hydel power unit.
21. The Environment consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, 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 Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar**, the SEAC recommended to grant Environmental Clearance for the proposal valid upto 10 years with stipulated conditions as per **Annexure-A** and following specific conditions:

- i) Implementation project, post monitoring of soil stability, soil erosion etc for the project to be done by a Project level monitoring committee following Govt approved procedure and look into other environmental issues.
- ii) R&R plan already approved since long for 945 affected families. A Rehabilitation action plan to be made for displaced families during implementation of the project as per the prevailing R&R policy and as per the actual families to be displaced.
- iii) Catchment area management shall be followed as proposed.
- iv) Implementation of recommendations of MOEF&CC, Govt. of India during Forest Clearance if any to be taken up suitably.
- v) SOP to address noise pollution during construction and over flooding at downstream locations& Soil erosion due to run offs be in place.
- vi) Plantations shall be carried out on both sides of the canal.
- vii) Provision of Bio- toilet shall be made during construction stage.
- viii) The proponent shall take soil conservation measures as planned for the catchment area.
- ix) Detail calculation for generation of 200kw of electricity from the head difference of water level in a 23.5-meter-high Dam project shall be submitted within 3 months from the date of issue of Environmental Clearance.
- x) The proponent shall prepare Bio-Diversity study registered for the entire project area as baseline information before submergence under the provision of Bio-Diversity Conservation Act - 2002.
- xi) Status of acquisition of private Land, Alienation/advance position of Non-Forest Govt. Land and Diversion of Forestland including DLC Land with Sabik and Hal Kissam shall be submitted to SEIAA, Odisha for the entire project before commencement of the project work.
- xii) The project proponent shall obtain approval of the project under Forest Right Act-2006, if applicable.
- xiii) The proponent shall make listing of Electrical Equipments, Instruments, Appliances, Devices and Fixtures with Star rating under BEE, Ministry of Power for Energy Conservation under the provision of Energy Conservation Act-2003.
- xiv) The proponent shall explore the possibility of providing Solar panels in the on utilized land and canal banks for generation of solar energy and its corresponding utilization in the project.
- xv) The Sub-Committee of SEAC, Odisha shall visit the site after issue of EC and implementation of project to verify the planning and execution of various EC conditions.

## **ITEM NO. 06**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KRUSHNACHANDRAPUR CLUSTER HILLOCKS STONE MINES DEPOSIT OVER AN AREA 17.18 HA OR 42.44 AC (KRUSHNACHANDRAPUR STONE QUARRY NO. 1 - 2.258 HA OR 5.58 AC, KRUSHNACHANDRAPUR STONE QUARRY NO. 2 OVER 5.63 AC. OR 2.278 HA, KRUSHNACHANDRAPUR STONE QUARRY NO. 3 OVER 5.63 AC. OR 2.278 HA, KRUSHNACHANDRAPUR STONE QUARRY NO. 4 OVER 5.63 AC. OR 2.278 HA, KRUSHNACHANDRAPUR STONE QUARRY NO. 5 OVER 5.63 AC. OR 2.278 HA, KRUSHNACHANDRAPUR STONE QUARRY NO 6 OVER 5.50 AC. OR 2.225 HA, KRUSHNACHANDRAPUR STONE QUARRY NO. 7 OVER 8.85 AC. OR 3.581 HA) LOCATED IN VILLAGE KRUSHNACHANDRAPUR UNDER BANARPAL TAHSIL OF ANUGUL DISTRICT OF SRI PRANAB KUMAR SARANGI, SRI BASANT KUMAR PARIDA & SRI SIVA SANKAR MOHAPATRA – EC**

1. Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) carried out for Krushnachandrapur Stone cluster over an area of 17.18 Ha located at Village Krushnachandrapur in Banarapal Tahasil of Angul District, Odisha. The cluster consists of 7 individual mining leases located within the cluster area of 500m. The land use pattern of the mining cluster area comes under the non-forest waste land (Abada Ajogya Anabadi), bearing Khata no.1, Plot no.42/1,42/2,42/3,42/4,42/5,42/6,42/7 Kissam: Pahad. Cluster (Krushnachandrapur hillock) is featured in the Survey of India Toposheet No. 73 H/1 and bounded between the latitudes 20°51'52.12"N to 20°52'06.51"N and longitudes 85°00'14.14"E to 85°00'37.24"E.
2. The EIA/ EMP study has been carried out based on the ToR approved by SEIAA, Odisha by M/s Kalyani Laboratories Private Limited Bhubaneswar. Kalyani Laboratories private limited (MoEF & CC and NABL accredited Lab) has gathered required baseline data for pre monsoon season (1<sup>st</sup> Dec 2020 to 28th Feb 2021) and accordingly prepared the EIA / EMP report.
3. The production from the entire cluster will be 203192 cu.m per annum, The name and address of the successful bidders for the individual 7 mines within the cluster is given in table below:

<b>Name of the quarry</b>	<b>Successful bidders from 2020-21 to 2024-25</b>
Krushnachaandrapur stone quarry No.1	M/s Jagannath Corporation Projects Pvt. Ltd.C/o- Pranab Narayan Sarangi, Plot No.397, Sarangi Bhawan (Gr. Floor), Garage Chawk, Lewis Road, Old town, Odisha, Bhubaneswar, 751002
Krushnachaandrapur stone quarry No.3	
Krushnachaandrapur stone quarry No.4	
Krushnachaandrapur stone quarry No.7	
Krushnachaandrapur stone quarry No.2	Basant Ku. Parida, At- Jarasingha, Angul
Krushnachaandrapur stone quarry No.5	M/s Orissa Biodiesel Jatropa Pvt. Ltd. C/o- Siva Sankar Mohapatra, Plot No.397, Sarangi Bhawan(Gr. Floor), Garage Chawk, Lewis Road, Old town, Odisha, Bhubaneswar, 751002
Krushnachaandrapur stone quarry No.6	

4. Krushnachandrapur has comprised mineralised area of Krushnachandrapur hillock over 17.18 Ha. The geological reserve (Probable & Possible) for building stone/road metal has been estimated as 2230687cum over the Cluster. It is evident that demonstrated the mineable reserve (Probable) for building stone/road metal worked out to be 2008507 cum over the Cluster.
5. Method of mining will be opencast semi mechanized. Handling of rock mass will be done both manually and by excavators. Handpicks, spade, chisel, hammer will be used by

manual labors for sorting and sizing. Loosening of rock mass will be done by drilling and blasting Based on the demand of building stone/road metal as revealed by the respective lessees, a maximum of 203192cum per annum of building stone/road metal will be extracted per annum from the Cluster area.

## 6. Annual Production of Building Stone/Road Metal during Plan Period

Year	Quarry 1	Quarry 2	Quarry 3	Quarry 4	Quarry 5	Quarry 6	Quarry 7	Total production (Cluster) in cum
First	5594	4007	10077	6552	10948	11662	8810	203192 Cum
Second	5594	4007	10077	6552	10948	11662	8810	203192 Cum
Third	5594	4007	10077	6552	10948	11662	8810	203192 Cum
Fourth	5594	4007	10077	6552	10948	11662	8810	203192 Cum
Fifth	5594	4007	10077	6552	10948	11662	8810	203192 Cum
<b>Total</b>	<b>27972</b>	<b>20034</b>	<b>50386</b>	<b>32760</b>	<b>54740</b>	<b>58310</b>	<b>44051</b>	<b>1015960Cum</b>

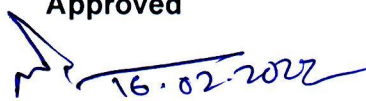
7. A total of 225 workers (Skilled-40nos., Semi-skilled-70nos. and Un-skilled-108nos & Mines Manager/Mine Permit Manager-7nos) will be employed during mining operation.
8. It is assumed that around 2/3rd of the generated waste will be transported to the crusher site along with valuable building stone/road metal where these will be sorted out. The remaining 1/3rd of the total waste will be separated at the quarry head and will be stacked in the temporary waste dump of respective quarry lease and will be utilised by the lessee for making of mine road and allied infrastructures.
9. The area of mining cluster is located in the Survey of India Toposheet no.-73 H/1 and bounded by Latitude-20°51'52.12"N to20°52'06.51"N and longitudes 85°00'14.14"E to 85°00'37.24"E. The land use pattern of the mining lease area comes under the non-forest waste land (Abada Ajogya Anabadi), bearing Khata no.1, Plot no.42/1,42/2,42/3,42/4,42/5,42/6,42/7 Kissam: Pahad. The M.L. area under reference displays a hilly terrain trending N-S. Highest RL in the area is 220 m above msl in the quarry 2 and quarry 4 and the lowest is 170 above msl in the quarry 1. The buffer zone of the study area is not coming under a hilly terrain. The highest altitude of buffer zone is 660 mRL at Durgapur RF and lowest altitude of 103 mRL
10. There is chance that during monsoon the run-off water may find access to some of the quarries in the Cluster-1.
11. There are no seasonal or perennial nala flows within the lease area. However due to the earlier mining activities there are various mining pits filled with water exists within the lease area. During the rainy season the rain water flows in the hillock through various raincuts and drains water to the existing quarry.
12. 45 KLD of potable water will be required from which 14 KLD of water will be required for drinking & domestic purpose. 21 KLD of water is suggested to be utilized for dust suppression and 10 KLD for plantation purpose. The water requirement by individual lease will be 5 KLD (max). The water will be sourced by tanker by the individual lessee to cater the water requirement. Water will be sourced from ground water and rain water harvesting from the existing quarry.

13. Green belt will be developed over an area of 2.5 ha along the safety zone of the cluster besides individual safety zone of the cluster. Further during the conceptual period 12.88 Ha of the lease area will be reclaimed with plantation.
14. The total cost of the project is ₹ 400 lakhs and the updated capital cost and recurring cost (per annum) for the environmental facilities for the proposed mining project works out to be ₹ 38 lakhs and ₹ 14 lakh / year respectively.
15. The Public Hearing in respect of Environment Clearance for Krushnachandrapur Cluster Hillock Stone mines Deposit over an area of 17.18 Ha at/ Mouza- Krushnachandrapur, Tahasil- Banarpal of Angul District, Odisha was conducted on Dtd. 07.12.2021 at 10 A.M. at Hatapadia, Maratha in the district of Angul, Odisha. The public hearing was conducted as per the guidelines of EIA Notification 14th September 2006 and subsequent amendments. The major issues raised during public hearing are control of vibration during blasting, peripheral developmental activities to be monitored by the village committee, health and education facility etc. In compliance to the public hearing a time bound action plan has been prepared and a total of Rs 14.20 Lakhs is proposed for social developmental expenditure by the cluster.
16. The Environment consultant **M/s Kalyani Laboratories Pvt. Ltd. Plot No. 78/944, Millennium City, Pahala, Bhubaneswar – 752101** along with the proponent has made a presentation on the proposal before the Committee.

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

- i) Permanent sprinklers system/ tanker-based water sprinklers should be strictly practiced to avoid dust emission.
- ii) Post monitoring plan of waste.
- iii) Water quality monitoring should be done along with biological monitoring.
- iv) Silt management including SOP for silt management for de-silting of surrounding water body(s) / Agricultural land be submitted.
- v) Proposed "Zero discharge" mechanism be submitted.
- vi) Details of waste management along with the composition of waste is to be provided.
- vii) All the 07 individual quarry lessee to create a common forum and contribute funds to it for grading, Compaction and maintenance of common haulage road, Provision of piped water with semi-circle Sprinkler system for suppression of dust on the common haulage road, and provision of thick, multilayer and a continuous green belt around the cluster excluding the entry and exit gate for prevention of pollution and noise going out of the mines.

  
Secretary, SEAC

Approved  
  
Chairman, SEAC



## ANNEXURE- A

### **CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR UPPER LANTH IRRIGATION PROJECT FOR CONSTRUCTION OF A HOMOGENOUS EARTH FILL DAM ACROSS RIVER LANTH AT VILLAGE - CHIKILI, TEHSIL - BELPARA, DISTRICT - BOLANGIR, WITH CCA, OF 4700 HA AND CONSTRUCTION OF MICRO HYDRO- ELECTRIC POWER PLANT OF 210 KW CAPACITIES ON LEFT MAIN CANAL FOR PADAMPUR INVESTIGATION DIVISION DEPARTMENT OF WATER RESOURCES OF SRI KULAMANI SETHY – EC**

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#### **I) Statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report, (incase of the presence of schedule-1 species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.
- vi. Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs. 1,000 crore.

#### **II) Air quality monitoring and preservation**

- i. Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a baseline data for post construction E1A / Monitoring purposes.
- ii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.
- iii. Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.



### **III) Water quality monitoring and preservation**

- i. Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with natural drainage system.
- ii. Re-modelling of existing natural drains (link drains) and connecting them with irrigated land through constructed field drains, collector drains, etc. are to be ensured on priority basis.
- iii. Before impounding of the water, Cofferdams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; cofferdam should not create any adverse impact on water environment including the rock mass and muck used for the Cofferdam.
- iv. As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period both at the upstream and downstream of the project
- v. Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF & CC and to the CWC on weekly basis.
- vi. Mixed irrigation shall be practised and necessary awareness be given to all the farmers and trained in the use of such systems. Proper crops selection shall be carried out for making irrigation facility more effective.
- vii. On Farm Development (OFD) works like landscaping, land levelling, drainage facilities, field irrigation channels and farm roads, etc. should be taken up in phased manner prior to the start of irrigation in the entire command area. The Command Area Development Plan should be strictly implemented as proposed in the EIA/EMP report

### **IV) Noise monitoring and prevention**

- i. All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

### **V) Catchment Area Treatment Plan**

- i. Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.

### **VI) Waste management**

- i. Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of

at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.

- ii. Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports. Efforts be made to avoid one time use of plastics.

## **VII) Green Belt, EMP Cost, Fisheries and Wildlife Management**

- i. Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of river basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months, whichever value is higher, shall be released as environmental flow.
- ii. Detailed information on species composition particular to fish species from previous study/literature be inventorized and proper management plan shall be prepared for in-situ conservation in the streams, tributaries of river and the main river itself for which adequate budget provision be made and followed strictly.
- iii. Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.
- iv. To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA/EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.
- v. Compensatory afforestation programme shall be implemented as per the plan approved.
- vi. Fish ladder/pass as envisaged in the EIA/EMP report shall be provided for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.

## **VIII) Public hearing and Human health issues**

- i. Resettlement & Rehabilitation plan be implemented in consultation with the State Govt, as approved by the State Govt
- ii. Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.
- iii. Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction sites.
- vi. Early Warning Telemetric system shall be installed in the upper catchment area of

the project for advance intimation of flood forecast.

- vii. Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Break Analysis.

## **IX) Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-1A.111 dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. Skill mapping be undertaken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long time livelihood generation
- iii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iv. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- v. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- vi. Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.
- vii. Multi Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in E1A/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the website of the Company.
- viii. Formation of Water User Association/Co-operative be made involvement of the whole community be ensured for discipline use of available water for irrigation purposes

## **X) Miscellaneous**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

**Environmental Scientist, SEAC**

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Level Expert Appraisal Committee (SEAC).
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green

Tribunal Act, 2010.