

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 29TH JANUARY, 2020**

The SEAC met on 29th January, 2020 at 11:00 AM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Sri. B. P. Singh. The following members were present in the meeting.

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

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

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S CREATIVE CULTIVATION PVT. LTD FOR PROPOSED "RESIDENTIAL DEVELOPMENT" AT GOVINDPUR, BHUBANESWAR, DIST – KHORDHA, WITH TOTAL BUILT-UP AREA - 147950.159 M² (EC)

1. The Proposed project is "Residential Development" located at Plot 518, 519, 549, 554/1155, 554/1102/1157, 550, 552/1159, 553, 551, 585/1154, 587, 586/1144, 590, 589, 600, 588, 588/991, 602/1169, 601/990, 601, 604/1004/1170, 604/1004/1170, 605/1177, village-Govindpur, Tehsil- Jatni, District- Khordha, Bhubaneswar, Odisha- 754136 developed by M/s Creative Cultivation Pvt. Ltd.
2. The Total Plot Area is 60927.186 m², total net plot area of the project will be 59470.37 m², area for Future Development will be 17967.858 m² and area for Present Development will be 41502.508 m². The built-up area of the project will be 147950.159 m².
3. Since, the built-up area of the project is less than 1,50,000 m². Hence, it falls under Activity 8(a), Category B as per Schedule of EIA Notification, 2006 and its subsequent amendments.
4. The maximum no. of floors will be B+S+14. The maximum height of the building will be 44.95 m. Total 5 no. of towers (1162 DU), 1 EWS unit (224 DU), 1 unit of clubhouse have been proposed. The total population of the residential complex will be 7616 consisting of Residents- 7126 ; Clubhouse Visitors- 125 ; Staff- 15 and Visitors- 350.
5. The geographical co-ordinate of the project site is: Latitude – 20°11'34.00"N & Longitude - 85°42'0.63" E which falls under Topo sheet No- 73H/11, 73H/12, 73H/15 and 73H/16. The project site is located at National Highway NH- 5 at a distance of approx 1.89 Km in North North West direction and NH – 224 is at 5.89 km. The nearest railway station is Khordha Road Railway station at a distance of approx. 4.78 Km. The nearest airport is Biju Patnaik Airport at a distance of approx. 13.50 Km from project site. Nearest canal is Daya Canal – 3.87 km. Nearest Nala is Gangua Nala adjacent to project boundary. Nearest lake near Chhanaghar – 2.74 km. to the project site. Nearest forest is Ratnapur protective forest at 4.26km from project site.

6. Meteorology: The maximum temperature is about 36.0 0C and the minimum temperature is 16.0 0C felt in the area. The average annual rainfall in the area is 1718.06 mm.

7. The building details of the project:

Particulars	Unit	Details
Plot Area	m ²	60927.186
Area under road widening	m ²	1456.820
Net area for development	m ²	59470.366
Area for Future Development	m ²	17967.858
Area for Present Development	m ²	41502.508
Ground Coverage		
Ground Coverage (Proposed)	m ²	9583.05
FAR Area		
FAR proposed Residential (a)	m ²	109059.48
FAR proposed EWS Tower (b)	m ²	11436.65
Society Block Area	m ²	938.32
Total Proposed FAR (a+b)- A	m ²	121434.5
NON-FAR AREA		
Non-FAR Area (Mumty and machine room etc.)	m ²	1315.71
Stilt Area (Excluding common areas)	m ²	7717.37
Total Non-FAR- B	m ²	9033.08
Basement Area- C	m ²	17482.6
Built-up Area (A+B+C)	m ²	147950.1
Green Area	m ²	7729.5
Road Area & Open Area	m ²	24189.96

8. **Water Requirement:** The total water requirement of the project during occupational stage is 1231 KLD, out of that the fresh water requirement is 650 KLD will be sourced from Ground Water and the recycled water from S.T.P is 581 KLD. The total sewage water generated is 868 KLD. It is proposed to treat the sewage in STP of capacity of 885 KLD. The treated waste water is used for Flushing, & Gardening and remaining will be used for irrigation purposes in nearby areas.
9. **Power requirement:** The daily power requirement for the proposed complex is 4698 KW (CESU). In order to meet emergency power requirements during the grid failure, there is provision of 6 nos. of DG sets having 2X500 KVA, 1X200 KVA, 1X250 KVA, 2X625 KVA capacities for power back up in the Residential Building Project. DG sets will be kept in acoustically treated room on the surface of residential colony. To avoid the emissions stack height of 4.5 m for 2x500 kVA , 3.2 m for 1x250 kVA , 2.8 m for 1x200 kVA & 5.1 m for 2x625 kVA above roof level will be provided to reduce the air emissions meeting all the norms prescribed by CPCB.
10. **Rain Water Harvesting** is proposed which will be harvested through 2 no. of recharging pits and 4 Rain water collection tanks (660 cum).
11. **Solid Waste Management:** From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated which will be about 3281 kg/day.

The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. Biodegradable Waste 1969 kg/day will be treated in In-house Organic Waste Converter and Non Bio degradable waste 656 kg/day and plastic waste 656 kg/day will be sent to Authorized Vendors as per SWM Rules 2016. Used Oil of approx. 40 litre/month will be collected in leak-proof containers at isolated places and then it will be given to approved recycler. E-Waste of approx. 2 kg/month will be collected and given to approved recyclers. Battery waste will also be sent to Authorized Vendors of CPCB.

12. Total Parking provisions for the project after expansion will be 1080 ECS. The green area of the project will be 7729.50 m².
13. The total project cost is ₹ 213.905 Crores.
14. The project proponent along with the consultant **M/s Perfect Enviro Solutions Pvt. Ltd., (New Delhi) – 110085** made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant on behalf of the project proponent, the SEAC decided to take decision on the proposal after the proponent submits the following information/ documents followed by the site visit of the Sub-Committee of SEAC:

- (i) Greenbelt area is proposed to be 18.6%. Revise plant layout for green belt (continuous and increase in percentage minimum to 20%) excluding land scape is to be submitted.
- (ii) Revised ECS calculation taking into consideration total no. of residents and floating visitors is to be submitted.
- (iii) DG set stack height details including location and its effect w.r.t. sound and emission and wind direction in that area.
- (iv) Reduction in no. of DG sets and its location in revised layout.
- (v) Status of permission from CGWA and Water Resources Department, Govt. of Odisha for ground water drawal.
- (vi) NOC from drainage department for discharge of treated water to readymade municipality drain provided near proposed location.
- (vii) Detailed calculation for generation of waste water and its management during monsoon and non-monsoon period separately.
- (viii) Breakup percentage of power requirement by CESU and Renewable Solar energy (5%) with detailed plan.
- (ix) Details of Solid Waste Management i.e. copy of agreement with agency collecting solid waste (non-biodegradable) from the premises.
- (x) Details of traffic study conducted for this project
- (xi) Details of Nala adjacent to the project site.
- (xii) KISSAM of land and land schedule of the proposed project site.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S CHROME SAGAR FOR CHROME ORE BENEFICIATION UNIT OF THROUGHPUT CAPACITY 18,500 TPA OVER AN AREA OF 0.8904HA & REFRACTORY MIX PLANT, AT VILLAGE-PUBALA, TAHASIL-SUKINDA, DISTRICT - JAJPUR, ODISHA (TOR)

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. The proposal is for Terms of Reference of M/s Chrome Sagar for Chrome Ore Beneficiation Unit of throughput capacity 18,500 TPA over an area of 0.8904Ha & Refractory mix plant, at Village-Pubala, Tahasil- Sukinda, District - Jajpur, Odisha.
3. M/s Chrome Sagar proposes for establishment of Chrome ore Beneficiation plant within the existing Chrome monolithic unit. The promoter of the project is Chrome Sagar, and Proprietor of the project is Sri Rajendra Kumar Thatoi. The existing chrome monolithic unit obtained Consent to Establish vide letter no. 1482/KNG/IND-266 dated 09.08.2019.
4. The proponent has applied to consider their project as Category-B2 as per MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 as throughput of Mineral Beneficiation activity is less than 20,000 TPA involving only physical beneficiation.
5. The MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 stipulates the Mineral Beneficiation activity listed in the schedule as Category-B will be treated as Category-B2 with throughput \leq 20,000 TPA, involving only physical beneficiation.
6. The land area required for the project will be 2.2 acres which comes under agricultural waste land category which has been converted Gharabari Kissam and belongs to the project proponent. Plot No: 1138, 1139/1640 & 1278/1641; Khata No.: 267/39.
7. The proposed area is featured under the topo sheet No. 45T/13 bounded by Latitude:20° 12' 36"N Longitude:85° 31' 31"E. The mining lease area is also accessible NH-200 at 2.5 km. and Sukinda – Hatibari road 5 km. The nearest railway station is Sukinda Road railway station and Jajpur road railway station which are situated at a distance of 17 km and 25 km from the proposed area. Nearest airport is Biju Pattnaik Bhubaneswar Airport 80 Kms from project site. Nearest river is Brahmani River at 9.5 km and Jhamra river at 5 km. Nearest town is Sukinda at 4.5 km. Nearest forest Pubala Protected forest at 0.5km. Nearest habitation is within 3km from project site. There is no wild life sanctuary, corridor, National park, biosphere reserve located within 10 Km buffer zone of the project site.
8. Raw material linkage has been established for the proposed plant from M/s B.C. Mohanty Mines, Sukinda and from OMC Ltd. The project is well accessible for transportation of raw material and product. The project is accessible through a 50 ft wide road which connect to NH – 200 and Sukinda road railway station also located at a distance of 17Km from the project site.
9. The process is a beneficiation process of conversion of low grade chrome ore having content less than 40% of Cr₂O₃ into semi high grade ore having content 50-65% of Cr₂O₃.
10. Generation of solid waste (tailings generated = 3600 TPA having <10% Cr₂O₃) will be properly stored in an impervious platform in earmarked area and will be blended with chrome refractory mortar and sold. So there will be no waste generation from the

proposed project. However taking into consideration of maximum storage of 6 years an area of 0.648 Acres has been demarcated for tailing pond.

11. The electricity load of 100 kVA will be procured from CESU, Odisha. Also proposed to install 125 KVA DG set.
12. Total water Consumption for the proposed project will be 153 KL/ day out of which 13 KLD will be the makeup water. About 95% of the water will be re-circulated in the process and only 5% of the will be makeup water. There will be no waste water generation from the project. Domestic waste water will be treated through soak pit via septic tank and industrial waste water generated will be treated by settling and reused in the process. There is the proposal for installation of 50 KLD ETP. The project will operate on zero waste discharge technology.
13. The baseline data generation for the project has been initiated from the month of Dec. 2019 for 3 months.
14. The project cost is estimated to be ₹ 104 lakhs.
15. The project proponent along with the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** made a detailed presentation on the proposal.

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


- (i) Copy of agreement between project proponent and OMC for taking raw materials for the project.
- (ii) Design of tailing pond and detail calculation of area 0.648 acres required for tailing storage for a period of six years.
- (iii) Study of ETP installed from nearby mines including waste water management.
- (iv) Supporting documents for land schedule and kissam of land.
- (v) Details of ore transportation to the plant.
- (vi) Detailed Consent to Establish and Consent to Operate status of State Pollution Control Board, Odisha for the existing plant (Chrome Monolithic Plant).
- (vii) CSR activities to be covered under this project.

ITEM NO. 03

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR EXTENSION OF EC OF BHANJAPALI IRON ORE MINES OVER AN AREA OF 18.0 HA & BENEFICIATION (CRUSHING & SCREENING) OF IRON ORE KOIRA, SUNDARGARH, ODISHA FOR PRODUCTION OF 2,60,000 MT / ANNUM OF M/S. BHANJAPALI IRON ORE MINES OF SRI JITENDRA NATH PATNAIK (EC).

1. The proposal was for Extension of EC of Bhanjapali Iron ore Mines over an area of 18.0 Ha & Beneficiation (Crushing & Screening) of Iron ore Koira, Sundargarh, Odisha for production of 2,60,000 MT / Annum of M/s Bhanjapali Iron ore mines of Sri Jitendra Nath Patnaik.
2. The lessee had obtained Environmental Clearance from SEIAA, Odisha vide letter no: 3212/SEIAA Dated 14.05.2015 for 5 years, which will be expired on 13.05.2020.
3. The said mining lease area was granted in favour of Sri J.N Patnaik on 29.02.96 for a period of 30 years vide letter no. 5/88/95-M.I.V. The mining lease was executed in favour of Shri J.N. Patnaik on 01.04.1997.


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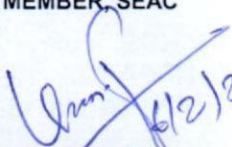

Secretary, SEAC


4. The first mining plan of Bhanjapali iron ore mines over 18.00Ha was prepared for 5 years (1997-2002) & approved by the regional controller of mines letter no. CAL/SG/FE/MP-459 dated 06.11.1996. Though the mining plan was approved on 06.11.96 but the mining operation commenced from 01.10.1997. Present mining scheme has been prepared for the period of 2017-2018 to 2021-2022. The said scheme of mining was approved by vide letter MS/OTFM/09-ORI/BHU/2017-18 dated 31.08.2017.
5. Environmental Clearance for Bhanjapali Iron ore mines has been granted for increase in production of Iron ore from 55,994 MT /annum to 2,60,000 MT/annum vide letter no. 3212/SEIAA Dated 14.05.2015 for 5 years.
6. The project obtained Forest Clearance vide memo no.1820 dtd.25.01.18 and Consent to Operate from Odisha State Pollution Control Board Vide letter no. 3222/IND-I-CON-2197 dated 29.03.2019.
7. Office of Director of Mines, Odisha, Bhubaneswar issued letter to the Deputy Director, Mines, Koira regarding resuming mining operation vide memo no.3515, Dated.25.07.2018 and their correspondence to Deputy Director, Mines, Koira resume mining operation.
8. During the financial year 2018 -19 is 66,400 TPA and during Apr 2019 to December 2019 production is 1,12,200 TPA of Iron ore has been produced from the mines.
9. The Lessee has applied for extension of validity of EC up to the lease period for 30 years.
10. The consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a detailed presentation before the SEAC.

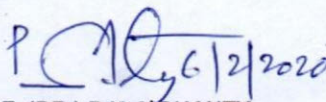
Considering the information / documents furnished by the proponent and presentation made by the consultant on behalf of the project proponent, the SEAC decided to take decision on the request of the proponent after the proponent submits following information / documents.


- (i) Supporting documents regarding lease validity period.
- (ii) Half yearly compliance report submitted to MoEF&CC, Govt. of India for the existing Environmental Clearance.

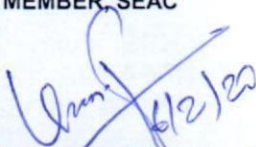

SRI B.P. SINGH
CHAIRMAN, SEAC

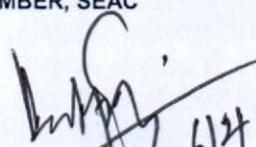

PROF (DR.) H. B. SAHU
MEMBER, SEAC

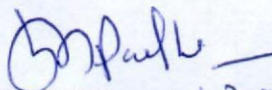

DR. D. SWAIN
MEMBER, SEAC

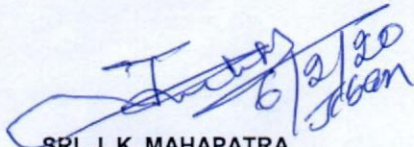

PROF. (DR.) P.K. MOHANTY
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

SRI. K. R. ACHARYA
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

PROF.(DR.) B.K. SATPATHY
MEMBER, SEAC


DR. SAILABALA PADHI
MEMBER, SEAC


SRI. J. K. MAHAPATRA
MEMBER, SEAC

Approved

Chairman, SEAC

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Secretary, SEAC