

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 26<sup>TH</sup> JULY, 2019**

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The SEAC met on 26<sup>th</sup> July, 2019 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.

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

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

**ITEM NO. 1**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF JINDAL CHROMITE MINES FOR ENHANCEMENT IN THE PRODUCTION CAPACITY OF CHROME ORE FROM 1.0 LTPA TO 2.15 LTPA OVER MINING LEASE AREA OF 89 HA. AT VILLAGE KALIAPANI, SUKINDA TEHSIL, JAJPUR DISTRICT OF M/S. JINDAL STAINLESS LTD – REGARDING SUBMISSION UNDER VIOLATION CASE (EC).**

1. The proposal is for Expansion in production from 0.1 million TPA (MTPA) to 0.215 million TPA (MTPA) of Chrome Ore from 89 ha Mine lease area with common boundary mining located at Village-Kaliapani, Tehsil Sukinda, District Jajpur, Odisha. Khasra No. / Plot No. / Block Range /Survey No/Gut No Survey No/Gut No : Forest Block 27.
2. The project proponent has obtained Environment Clearance for production of 0.1 MTPA vide letter No J – 11015/12/2000-IA. II(M), dated 13.02.2001.
3. The latitude and longitude of the site are

Corner	Latitude North	Longitude East
J1	21°02'03.53184"	85°45'30.76020"
J2	21°01'56.10432"	85°45'18.17352"
J3	21°01'39.80028"	85°45'29.13624"
J4	21°01'52.37472"	85°45'50.06628"
J5	21°01'04.39824"	85°46'22.37448"
J6	21°01'09.93252"	85°46'31.69704"
J6-C	21°01'33.76560"	85°46'15.70188"
J7	21°02'01.48668"	85°45'57.09528"
J7-B	21°01'53.59836"	85°45'44.30016"
J8	21°01'50.68092"	85°45'39.48048"

4. The earlier proposal for (i) enhancement of production from mines from 0.1 MTPA to 0.215 MTPA with (ii) enhancement of capacity of Chrome Ore Beneficiation Plant

- (COBP) from 36,000 to 60,000 MT per annum was applied to MoEF&CC for obtaining Environment Clearance (EC) and was presented for TOR on 22nd January, 2010.
5. EAC has approved TOR for the proposal on 15th February, 2010. Based on the Approved TOR - EIA/EMP was prepared and Public Hearing was successfully completed on 31st August, 2010 covering both proposals as mentioned above.
  6. After Public Hearing was completed for 0.215 MTPA, JSL has dropped the proposal of expansion from 0.1 MTPA to 0.215 MTPA and obtained Environmental Clearance for Chrome Ore Beneficiation Plant (COBP) to enhance the production capacity from 36,000 to 60,000 MT per annum on 24th February, 2016.
  7. Obtained Consent to Establish for 60,000 TPA COBP vide letter No. 20031/Ind-II-NOC-5299 Dated 30/11/11 from State Pollution Control Board, Odisha.
  8. Obtained Consent to Operate for 60,000 TPA COBP vide letter No. 4258/Ind-I-CON-2562 Dated 20/03/17 from State Pollution Control Board, Odisha and valid upto 31/03/2018.
  9. M/s JSL applied for obtaining fresh ToR for enhancement of Production capacity from 0.1 MTPA to 0.215 MTPA, which was considered by the EAC, MoEF&CC, Govt. of India on 21st July, 2016. Based on the presentation made, the committee sought additional information which was presented on 16th December, 2016 & 27th April, 2017.
  10. The EAC recommended the proposal for grant of standards TOR conditions subject to submission of authenticated past production details to ascertain violation of EIA notification, if any.
  11. The MoEF&CC, Govt. of India received the past production details vide our Letter of 04th August, 2017, wherein the Ministry observed the mineral production in excess of Environmental Clearance granted capacity of 0.1 MTPA. Based on the facts, the MoEF&CC, Govt. of India has put the case under violation of EIA Notification.
  12. The MoEF&CC, Govt. of India issued the letter to close down the mining operation vide letter no-J/11015/163/2016-IA-II(M) on dated 21/02/2018 with immediate effect due to excess granted capacity production from 2002-03 to 2007-08 and also dispatched more than 0.1MTPA from 2006-07 to 2007-08 and treated as Violation case in 21/02/2018.
  13. State Pollution Control Board did not issue Consent to Operate for the year 2018-19 vide letter No 3860/IND-CON-2562 , dated 29.03.2018, due to excess production beyond the approved limit and with a remark to obtain necessary permission from MOEF &CC.
  14. M/S Jindal Stainless Limited applied to MOEF & CC for issuance of TOR from 0.1MTPA to 0.215MTPA vide our proposal no. 1A/OR / MIN/74317/2018 dated 13/04/2018, as per MoEF&CC Circular on violation case. M/s-JSL requested to MoEF&CC to give permission to run all COBP related operation.

15. The MoEF&CC, Govt. of India vide letter no J-11015/163/2016-1A. 11(M) dated 26.09.2018 asked M/s. JSL to submit the details after examining their letter of 26.07.2018.
16. The MoEF&CC, Govt. of India vide their letter J-11015/163/2016-IA.II(M) dated 26/12/2018, directed to ADDL PCCF (C) MoEF&CC, Regional Office (E/Z), Bhubaneswar to submit the factual report on PP's submission vide letter no. 3.10.2018 as well as compliance report of both E.C.'s(No. J- 11015/12/2000-IA.II(M) dated 13/02/2001 and J-11015/369/2016-IA.II(M) dated 24.02.2016.
17. Joint Director(S), Regional MoEF&CC, Bhubaneswar issued Certified Compliance report after monitoring the site on 10.01.2019,as desired by MoEF&CC , New Delhi.
18. Closure report w.r.t. Certified compliance report submitted to MoEF&CC, New Delhi vide letter No 101-664/EPE/467, dated 07.03.2019 duly signed by Joint Director /Scientist –D.
19. As per violation case, M/S Jindal Stainless Limited applied to MoEF&CC for issuance of TOR from 0.1 MTPA to 0.215 MTPA vide proposal no. 1A/OR/MIN/74317/2018 dated 13.04.2018.
20. MoEF&CC transferred the case vide proposal no SIA /OR/MIN/28926/2018 to Member Secretary SEIAA, Odisha as per notification no. dated SO 3977(E) dated 14.8.2018, as the lease area is less than 100 ha.
21. The Proposal was transferred to SEIAA, Odisha due to change in notification (Category – A to Category-B). Presentation was made before SEIAA/SEAC and TOR has been issued vide letter no 1098/SEAC-180 dated 14.12.2018 for enhancement of production of chrome ore from 0.1 MTPA to 0.215 MTPA.
22. The mine lease area is 89 Ha which is forest land. Mining scheme approved for the period 2012-13 to 2016-17 vide letter no. 314 (3)/2011/MCCM (CZ) / MS-58 of 2nd May, 2012 and subsequently approved for 0.215 MTPA of opencast mining with common boundary mining till 31st March, 2022 vide letter No: MS/FM/13-ORI/BHU/2016-17/7383, dated 29th December, 2016.
23. Forest land 22.80 ha is already diverted vide letter no.8-68/2000-FC/2327(F), dated 05th July 2001. As per Hon'ble Supreme Court guidelines of 10th March, 2015 remaining non-forest area of 66.20 Ha is forest as per sabik record has been taken under forest diversion proposal and is under process at the State Govt.
24. The mining lease 89.00 ha. of forest land(in village Kaliapani and forest block-27 ) was executed in favour of M/s Jindal Strips Ltd. on 04.01.2002 for a period of 20 years w.e.f 04.01.2002 to 03.01.2022. Subsequently name of lessee M/s Jindal Strips Ltd. was changed to M/s Jindal Stainless Ltd. On 26.12.2007 after obtaining necessary permission from Govt. of Odisha. As per section 8A(3) of MM(D&R) Amendment Act 2015 mining lease period is deemed to be extended for 50 years .i.e. 04.01.2002 to 03.01.2052.

25. It is reported by the project proponent that mine is proposed for annual production of 0.215 MTPA.
26. Open cast mining method will be adopted for production of chrome ore. Since, the maximum annual production is 0.215 MTPA (i.e. 2,15,000 TPA), fully Mechanized mining method will be followed.
27. Drilling and blasting is being carried out to disintegrate the hard ore and associated rocks. At present the mRL of bottom most working bench is 122 mRL. Top RL of the lease with at 300 m in south and bottom RL at 122 m. The dimension of the working quarry is around 289m long and 306 m wide.
28. Development and Production from the Quarry-2 and common boundary mining i.e. Eastern boundary of M/s Jindal Stainless Limited and western boundary of M/s Balasore Alloys Limited is the proposed area of working. From common boundary mining the blocked ore shall be mined out/recovered by both the lessees.
29. Method of mining will be Opencast Fully mechanized. Development and production will carry out by deploying excavator and tipper combination. Drilling and blasting will carried out to loosen the strata and hard rock, to minimize the secondary blasting Rock breaker also engaged for breaking of hard rocks.
30. Mining operation will be continued by both the lessees simultaneously. The direction of the quarry shall be north-south.
31. For the purpose of transportation of ROM, 25 tonne capacity tippers will be deployed. Haul road shall be developed wherever required at a gradient of 1:14.
32. Run off Mine (ROM) Friable band and Lumpy band in this area is overlain by Laterite, Silicified Chert and others such as diorites Lateritic limonite etc. The wall rock in the area is mainly Laterite and weathered Serpentinites. For recovery of chromite ore it would be essential to remove Overburden (OB) since opencast mechanized method of mining is continued.
33. Around the waste dumps, retaining wall of substantial strength shall be constructed. Perforation (weep holes) shall be left at intervals to allow for passage of water. Adjacent to this, garland drain shall be provided to prevent any wash off or leaching of dump materials during heavy rains. Dump height will be increased to 15 m (max) from existing level. Individual slopes shall not exceed 37° and the overall shape of the dump shall be 28°. Catch drains shall be provided at the inward side of the terrace. Catch drains of the terrace shall be connected to the garland drain outside the periphery of the dump. Each terrace shall have provision of berms at the outer end to reduce gully formation due to rainwater wash offs. The existing area waste dump area is 28.377 Ha which will be increased to 28.782 Ha by the end of scheme period. In course of time plantation on the dead end slopes of waste dumps with local species shall be done in consultation with forest authorities.
34. It has been proposed to dump the overburden or waste at Dump No-1. Presently garland drain of 2360 m long, retaining wall of 440 m and two no of settling tanks exist. Towards south side of dump – 1 and north side of reclaimed area, garland drain of

380 m long and retaining wall of 380 m shall be constructed. Check dams shall be constructed intermittently across the garland drain to check / arrest sediments flowing with water.

35. About 815 KLD of water will be required out of which 55 KLD will be sourced through Ground water and 760 KLD from mine quarries.
36. It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc. within the 10 km radius area around the mine lease.
37. Damsala nala is the main perennial which flows in the south west direction and is located towards the northern side of the leasehold at a distance of 0.6 km away from the northern boundary .Various first and second order streams both from the northern and southern slopes of Mahagiri and Daitary hill range join on to the Damsala nala which finally discharge in to the Brahmani river.
38. The southern part of the area is bounded by a dry nala .The drainage pattern of the buffer zone has natural drainage such as Damsala nala in the near vicinity of the leasehold. The dry nala in the southern part carries the surface run-off during monsoon and ultimately converge with Damsala nala towards north-western part of the leasehold.
39. The cost of the project is ` 4.00 Crore.
40. It was reported by the PP that there is no court case/litigation pending against the project.
41. From 2002-03 to 2007-08 (i.e. 6 years), the production figure was in excess of 0.1 MTPA. From 2006-07 to 2007-08 (2 years) and 2016-17, the dispatch figure was in excess of 0.1 MTPA.

**Authenticated Production / Dispatch Details**

Sl. No.	Year	Actual Production (TPA)	Actual Dispatch (TPA)
1.	2001-02	23354.580	8992.630
2.	2002-03	152163.250	56887.100
3.	2003-04	191746.000	68227.326
4.	2004-05	114578.000	52190.260
5.	2005-06	194021.730	64136.750
6.	2006-07	158712.000	111046.860
7.	2007-08	120189.000	135342.300
8.	2008-09	79794.000	83950.990
9.	2009-10	62335.000	62780.070
10.	2010-11	74000.000	90374.490
11.	2011-12	66000.000	58733.470
12.	2012-13	96022.622	43667.800
13.	2013-14	64086.842	89708.110
14.	2014-15	69298.000	66775.190
15.	2015-16	87988.000	99313.690
16.	2016-17	99847.218	100232.890
17.	2017-18 (June-2017)	30577.679	33316.750

42. During 2002 -03 to 2007-08 (6years) the production figure has exceeded 0.1 MTPA for which Deputy Directorate of Mines, Govt. of Odisha has raised a demand note of ` 77,52,97,589 /- vide office letter no. 568/Mines dated 11.04.2018. as per judgment of Hon'ble Supreme Court of India.
43. The lessee filed a revision application in the revision authority Ministry of Mines, New Delhi vide. Case no. 22/(43)/2018/RC-I.
44. The revision authority considered the case and passed an order "The Impugned order" be stayed till the next hearing vide order on 10.05.2018.
45. They have given undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated. 02.08.2017 in writ petition (Civil) No. 114 of 2014. The undertaking inter-alia include commitment of the PP not to repeat any such violation in future. This is in accordance with OM of MoEF&CC, vide F. No. 3-50/2017-IA.III(Pt.), dated 30.05.2018.
46. Conducting a fresh Public Hearing for the proposal was exempted by the SEAC as same has already been conducted for the proposal earlier on 31st August, 2010.
47. The project proponent along with the consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar** made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by a site visit by the Sub-Committee of SEAC.

- (1) Study on effect of chromite mines to nearest human habitation which is about 1.3 km.
- (2) Pandara nallah is adjacent to the project site. Hence study on impact of mining activity on Pandara nallah is to be carried out and report to be submitted.
- (3) Repeat the estimation of Arsenic, Lead, Cadmium, Hexa chromium, Copper, Zinc, Selenium on surface water analysis and it should be have absolute figures. A fresh analysis report is to be submitted.
- (4) Distance of sampling stations from project site should be mentioned.
- (5) Copy of valid explosive licence.
- (6) Status of permission from Water Resources Department, Govt. of Odisha for drawal of Ground Water.
- (7) Number of existing bore-wells and proposed for the expansion proposal along with the NoC from CGWA and permission for Water Resources Department, Govt. of Odisha.
- (8) Detailed water balance including compensating water balance mentioning requirement.
- (9) Details of depth of Quarry No. 1 and 2.

- (10) Quality of water present in Quarry 1 & 2 need to be assessed and analysis report to be submitted.
- (11) Copy of Annual compliance Report on CGWA to be submitted
- (12) Plant layout showing previous plantation and proposed plantation.
- (13) List of plant species used for plantation on dump area.
- (14) Traffic Density study in mines area covering neighboring mines to be carried out by Operational Research (OR) expert and report to be submitted.
- (15) Specific occupational health study for employees and surrounding villages.
- (16) Pollution Control Measures on common haulage roads.
- (17) Details of CSR activities covered under Company Act 2013 in year 2012-13 including study of Socio-Economic conditions of the periphery with an institute of repute.
- (18) Details of Renewable energy to be used in the mines.
- (19) Calculation of life of Quarry Dump 1 & 2 and alternative suggested if any other than these 2 dump sites.
- (20) Mass Balance diagram related to treatment of hexavalent chromium and its zero discharge from the mines.
- (21) Details of drainage management previously operated and proposed.
- (22) Submission of complete set of listed annexures in the EMP.
- (23) Year wise details of groundwater drawn.
- (24) Details of rainwater harvesting proposed in the mine and amount compensated towards water requirement.
- (25) Status of Forest Clearance (Stage-I) for remaining forest land.
- (26) In surface water analysis Standards as per IS- 2296:1992 Class –‘C’ has been used, hence it should be upgraded to 2012 and submitted.
- (27) The model simulations are done for the air pollutant arising from the mining operations, namely PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> & CO. Ground Level Concentration (GLC) have been computed using hourly meteorological data for 2 scenarios namely without control measures & with control measures. Details of control and without control parameters shall be submitted.
- (28) Copy of application to State Govt. to execute supplementary deed and other clearances subsequently.
- (29) Copy of Steel and Mines Department, Govt. of Odisha letter about mining lease and ownership of lease and its validity.
- (30) Copy of Wildlife Conservation Plan.
- (31) Measures taken for treatment of surface runoff.
- (32) Water quality of Damsala Nallah and analysis report of Damsala Nallah for last 3 months.
- (33) Analysis report of soil samples w.r.t hexavalent chromium for last 3 months.

- (34) Analysis of ground and surface water sample w.r.t hexavalent chromium for last 3 months.
- (35) Copy of certified compliance report of earlier Environmental Clearance conditions issued by MoEF&CC, Regional Office, Bhubaneswar.
- (36) Copy of order of Reviewing Authority (RA) and final order if any.
- (37) Copy of MoEF&CC closure order and cancellation of ToR.
- (38) Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- (39) Compliance to issues raised in public hearing conducted on 31st August, 2010.

## **ITEM NO. 2**

### **PROPOSAL FOR AMENDMENT OF ENVIRONMENTAL CLEARANCE FROM MULTI STORIED COMMERCIAL IT/ITES BUILDING TO INSTITUTIONAL BUILDING "TOWER 2010" AT MANCHESWAR INDUSTRIAL ESTATE, BHUBANESWAR, DIST- KHURDA, ODISHA OF M/S ODISHA INDUSTRIAL INFRASTRUCTURE DEVELOPMENT CORPORATION ORGANIZATION (IDCO), WITH BUILT UP AREA -55,141.83 SQ.MT – REGARDING AMENDEMENT OF EC.**

1. This proposal is for amendment of Environmental Clearance from Multi Storied Commercial IT/ITES Building to Institutional Building "Tower 2010" at Mancheswar Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha of M/s Odisha Industrial Infrastructure Development Corporation Organization (IDCO), with built up area - 55, 141.83 sq.mt.
2. M/s IDCO has obtained Environment Clearance from SEIAA, Odisha vide letter no. 620/SEIAA, dated 11.04.2014 for Multi Storied Commercial IT/ITES building "Tower 2010" at Mancheswar Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha with built up area -55,141.83 m<sup>2</sup>.
3. Building permission from BDA was obtained vide letter no. 21630/BP/BDA, Bhubaneswar, dated 26.09.2012 for Multi Storied Commercial IT/ITES building "Tower 2010" at Mancheswar Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha with built up area -55,141.83 m<sup>2</sup>.
4. M/s IDCO has requested for amendment of Environmental Clearance for Changing of Activity of "Tower 2010" of IDCO at Mancheswar Industrial Estate, Bhubaneswar, Dist- Khurda, Odisha, from Commercial IT/ITES Building to Institutional Building.
5. The institutional building will carry out the following courses:
  - Mechatronics
  - Facilities Technology (Mechanical & Electrical)
  - Facilities Technology (Air-con and Refrigeration)



- Facilities Technology (Vertical Transportation)
- Precision Engineering
- Logistics Operations
- Beauty & Wellness
- Hair Fashion & Design

6. Total Land area -16187.4 sq. m (4.0 Ac) and Total Built up area – 55,141.83 sq. m. There will be no change in total land area as well as built-up area due to changing activity.

7. A comparison statement of requirement and utilities of previous activity & proposed activity are given below :

Sl. No.	Particular	Existing EC (Ref. No. 620/SEIAA, dated 11.04.2014)	Amendment EC
(i)	Building Activity	Commercial IT/ITES Building	Institutional Building
(ii)	Plot No.	4941(p), 4954(p), 488(p), 493(p), 492(p) & 490(p)	4941(p), 4954(p), 488(p), 493(p), 492(p) & 490(p)
(iii)	Khata No.	2076, 1352 & 685	2076, 1352 & 685
(iv)	Plot Area	16,187.4 sqm	16,187.4 sqm
(v)	Built up Area	55,141.83 sqm	55,141.83 sqm
(vi)	Height of the Building	88 m	88 m
(vii)	No. of Storied	18 Storied	18 Storied
(viii)	Water Requirement	380 KLD	337.5 KLD
(ix)	Fresh Water Requirement	150 KLD	125.0 KLD
(x)	Waste Water Requirement	230 KLD	154.6 KLD, Recycled water after STP treatment is 148.4 KLD
(xi)	STP Capacity with MBBR Technology	230 KLD	230 KLD
(xii)	Power Requirement	4600 KW	4600 KW
(xiii)	DG Set	4 x 1600 KVA	4 x 1600 KVA
(xiv)	Solid Waste Generation	1200 kg/day	1000 kg/day
(xv)	Estimate Population	3000 Nos.	2500 Nos.
(xvi)	Cost of the Project	97.7 Crores	97.7 Crores

8. The Environment Consultant **M/s Centre for Envotech and Management Consultancy Pvt. Ltd.** Bhubaneswar along with the proponent made a detailed presentation on the proposal before the Committee.

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

- a) Copy of half yearly compliance Report to Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.
- b) Details of power to be consumed from CESU and percentage of Solar energy to be used in the project.
- c) Details of Greenbelt area. Plants previously planted and proposed to be planted.

### **ITEM NO. 3**

#### **PROPOSAL FOR ENVIRONMENT CLEARANCE FOR CONSTRUCTION OF (S+12) MULTI-STORIED RESIDENTIAL APARTMENTS AT RANASINGHPUR (PHASE-II) BHUBANESWAR OF ODISHA STATE HOUSING BOARD WITH TOTAL BUILT UP AREA 1,01,370.40 SQ.M OVER AN AREA OF 11.325 ACRES (EC).**

1. Odisha State Housing Board (OSHB) has applied for Environmental Clearance for construction of Multi-Storied Residential Apartments, At-Ranasinghpur (Phase-II) Bhubaneswar of with total built up area 1,01,370.40 Sq.m over an area of 11.325 Acres.
2. OSHB Bhubaneswar has the plans for construction of S+12 Multistoried residential apartment over plot no. 278 (P) and 280 (P) at Ranasinghpur, Phase II, Bhubaneswar. The proposed site is located at Ranasinghpur, Phase II, Bhubaneswar under Bhubaneswar Tehsil. Total Plot area of the project as ascertained by the total station survey is 12.892acres i.e. 52191.32 Sq.m. Out of the total area, road is 6340.47 sq.m. The net area available for the construction work will be 11.325 acres.
3. The project is located in  
Khata No: 254, Plot No. 11/737, 278(P) & 280  
Latitude:20°13'30.0N; Longitude-85°47'03.7"E  
Latitude-20°13'37"1N; Longitude-85°46'49.3"E  
Latitude - 20°13'36.5"N Longitude-85°47'9.6"E  
Latitude-20'13.36.5"N; Longitude: 85°46'49.4"E  
Toposheet No. 73 H/16
4. The project is proposed for construction of 29 blocks (HIG, MIG, LIG & EWS) with 1052 residential apartments and constructed over a total builtup area of 101370.40 Sq.m. There will be community hall, shopping complex and club house constructed for the project.
5. Total amount of domestic water requirement during the operational phase of the project will be 650 KLD. Out of the total water requirement 400 KLD is fresh water used for domestic purpose and rest 250 KLD will be required for flushing and met from treated

water source. The required quantity of water can be supplied by Bhubaneswar P.H. Division on payment basis by the water supply line of PHED.

6. The rain water harvested from the project area will be used for ground water recharge. Total harvestable quantity of rainfall from the project site is 1807.22 cu.m
7. Plantation will be done along the road side and along the boundary area to make a green city plan. The green area will be developed over 10333 sqm with 2583 saplings.
8. Electricity requirement for the apartment will be 3.597 MW which will be supplied from the central Electricity supply Utility (CESU), Bhubaneswar, Odisha. There is the proposal of installation of DG Set (2 nos 82.5 kVA, 14 nos 50 kVA) will be used for the power back up source.
9. The parking has been provided in stilt floor and open parking. Total cover parking provided will be 17712.26 sq.m and open parking is 8699 sq.m. Total parking area available for the proposed building will be 26411.26 sq.m.
10. Approximately 1920 Kg / day waste will be generated from the group housing complex. The organic waste generated will be used for composting and inorganic waste will be disposed through Bhubaneswar Municipal Corporation.
11. Odisha state housing board obtained structural safety certification from the competent authority regarding the construction of the building.
12. Height of the Residential building is 36 m. Fire Fighting System (Integrated wet riser system) to the proposed building is designed based on the recommendations of NBC part IV table 23. 2016.
13. Energy conservation measures will be adopted by the using maximum use of sun light and minimize the use of electricity.
14. The approximate cost of the project will be ` 361.80 crore.
15. The project proponent along with the consultant **M/s Kalyani Laboratories Pvt. Ltd., Plot No.: 78/944, Pahala, Bhubaneswar -752101** made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by a site visit by the Sub-Committee of SEAC.

- a) Status of land as on 25.10.1980 w.r.t. Forest Conservation Act, 1980.
- b) Detailed land schedule and kisam of land. Status of conversion of land to Gharabari.
- c) Details of status of village forest near to the plot.
- d) Detail of stack height of DG set.

- e) Number of small capacity DG sets should be reduced and replaced by minimum number higher capacity DG sets to reduce noise and air pollution. A detailed proposal to this effect shall be submitted.
- f) Details of Fire corridor.
- g) Leaf litter compost provision shall be kept and manure so generated shall be used in plantation. A detailed proposal to this effect shall be submitted.
- h) Details of Organic Converter shall be submitted.
- i) Status of building plan approval from BDA.
- j) Study of heat transfer in bricks to be carried out and report to be submitted.

#### **ITEM NO. 4**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. VASUNDHARA POWER AND INFRASTRUCTURE PRIVATE LIMITED FOR PRODUCTION OF 9,60,000 TPA COAL WASHERY OVER AN AREA OF 23.02 ACRES AT MOUZA - KALOBHAL, TAHASIL – HEMGIRI, DIST- SUNDARGRAH (TOR).**

The project proponent didn't attend the meeting. Therefore, the proposal was deferred to next meeting.

#### **ITEM NO. 5**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. VASUNDHARA POWER AND INFRASTRUCTURE PRIVATE LIMITED FOR PRODUCTION OF 9,60,000 TPA COAL WASHERY OVER AN AREA OF 23.02 ACRES AT VILLAGE-TAPARIA MOUZA - GAINKAPALLI, TAHASIL –HEMGIRI, DIST- SUNDARGRAH (TOR).**

The project proponent didn't attend the meeting. Therefore, the proposal was deferred to next meeting.

#### **ITEM NO. 6**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF ADAGHAT IRON ORE DEPOSIT OF M/S NATIONAL ENTERPRISES AT VILLAGE ADAGHAT IN DISTRICT SUNDARGARH OVER MINING LEASE AREA OF 15.074 HA. FOR PRODUCTION OF 3,00,300 TPA IRON ORE (TOR).**

1. The proposal was considered by the Committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. The proposed mine lease hold area of 15.074 Ha granted in favour of M/s National Enterprises is in village Adaghat of Bonai Sub-division in Sundargarh District of Odisha. Sri Charanjit Singh Grewal is the proprietor of the firm.
3. As per EIA Notification dated 14th Sep, 2006 as amended from time to time, the project falls under Category "B", Project or Activity 1(a) – Mining of Minerals.

4. M/s National Enterprises, Barbil had applied to Govt. of Odisha on 24.2.1997 for grant of a mining lease over 15.074 ha. in Adaghat village of Sundargarh dist. for mining of Iron ore. The Steel & Mines Dept. of the State Govt. had issued terms and conditions for acceptance by the applicant regarding grant of the mining lease vide letter no. 12730/SM, dt 20.10.2000 with a condition to obtain Forest Clearance from MoEF under FC Act, 1980 for a period of 20 years. The lease deed was executed on 11.01.2017.
5. Modified mining plan has been approved by Regional Controller of Mines, Indian Bureau of Mines vide letter no- MPM/OTF-MECH/14-ORI/BHU/2010-11 dated 27-09-2010.
6. The area is featured in Toposheet No 73G/5 bounded by latitude  $21^{\circ} 55' 45''$  N -  $21^{\circ} 56' 00''$  N and longitude  $85^{\circ} 18' 45''$  E -  $85^{\circ} 19' 15''$  E. Plot No. 225(P), 226(P), 227(P), 228(P), 341(P) Khata No. 39. Nearest town is at Koira, 7.5 km where all facilities like medical, postal, education etc are available. Nearest Railway station is Barbil, 40kms away and Roxy railway siding is at a distance of 38 km. Nearest airport is Bhubaneswar, 195km. This Kundra / Suna Nadi, a tributary of Baitarani River, controls the drainage system of the area and flows due north in the region and then east to meet the Bay of Bengal. Nearest habitation is 3km from project site. Interstate boundary between Odisha and Jharkhand lies at distance of 12km in North-West direction from the proposed project site.
7. The entire lease area is in DLC Forest Land. Stage –I clearance for the forest land involved in the lease area has been issued by the Eastern Regional Office, Bhubaneswar of the MoEF & CC vide letter no. 5-ORC256/2015-BHU,dt. 26.09.2018. 13.674 ha. of non-forest govt. land has been identified in village Paramdih (Khata No. 32, Plot No. 503, 504, 505 & 487) of Koira Tehsil (Banki Forest Range of Rourkela Forest Division) in lieu of forest land involved in the ML area for compensatory afforestation.
8. Earlier Public Hearing for EC was conducted on 15.05.2012 for the project and the final EIA /EMP report was presented for EC before the SEAC. Though SEAC had recommended for EC after the presentation but SEIAA has not issued final EC letter due to the want of Stage-I of Forest Clearance. Later on 10.06.2019, SEIAA, Odisha vide letter no. 6824/SEIAA has directed the company to apply afresh online for issue of ToR to conduct EIA study.
9. The mining lease area is mainly dominated by hill & a part of NW-SE trending hill. The highest altitude is 635mRL and lowest elevation is 560mRL. No seasonal or perennial nala in the ML area. Surface runoff water flows along the natural slopes into Suna Nadi/ Kundra nala in eastern side of the lease area
10. The mining lease area is located in tropical region where climate is characterized by very hot summers and cool winters. Temperature:  $5^{\circ}\text{C}$  to  $43^{\circ}\text{C}$  and Annual Rainfall (Average): 1535.5mm
11. Geological reserve of 22, 97, 264 Ton and Mineable reserves of 20, 31, 533 Ton have been assessed for the iron ore in the lease area. Based on the exploration input it is planned to produce 3, 25,152 Ton iron ore per annum. Samples collected randomly

- from the various type of iron ore exposures show the average Fe- content of 63.24%. Life of the mine is 9 years.
12. Open cast method of mining on single shift basis is proposed to excavate the iron ore to gradually achieve the production target. Drilling and blasting will be adopted for loosening of hard rock mass both by the jack hammer drills and DTH drills. Height and width of the benches will be kept at 5m each.
  13. 3,56,142 m<sup>3</sup> waste will generate during the plan period. Ore to waste ratio was 1:0.36.
  14. The mine will provide employment to 258 persons daily.
  15. 13 m<sup>3</sup>/day water will require which will source from Suna Nadi. The peak water requirement shall be 13 m<sup>3</sup>/ day and shall be met from the ground water with due permission. The ground water of the area varies between 564.3mRL to at 561.7 mRL below the general surface level. The depth of such water tables are assumed in comparison with the nearest dug wells in the inhibited area. Expected depth of mine working by the end of the life of the miens is up to 12m (up to 588mRL) from surface level. Thus ground water table is not going to be intersected.
  16. The area does not have any monuments of historical or archaeological importance, pilgrimage, any place of tourist interest, national park, bird or wild life sanctuary.
  17. To maintain ecological balance and to check harmful effects imposed on the environment of Adaghat due to proposed mining and allied activities, environmental control measures such as Land use planning, Solid waste management, Air pollution control measures, Water pollution control measures, Noise pollution control measures, Occupational safety health and Socio-economic condition have been envisaged.
  18. The project cost is estimated to be ` 5 crores and there is a budgetary provision of ` 70 lakhs as capital cost towards environmental protection measures. ` 15 lakhs will be spent under CER for various socio-economic activities, whereas ` 7 lakhs will be spent annually towards regular maintenance & recurring activities.
  19. The Environment Consultant **M/s Centre for Envotech and Management Consultancy Pvt. Ltd. Bhubaneswar** along with the proponent made a detailed presentation on the proposal before the Committee.
  20. The project proponent requested for exemption of conducting public hearing as same has already been conducted on 15.05.2012 and issue Terms of Reference for conducting EIA study as per MoEF&CC, Govt. of India OM No. J-11013/41/2006-IA.II(I), dated 18.05.2012.
  21. MoEF&CC, Govt. of India OM No. J-11013/41/2006-IA.II(I), dated 18.05.2012 stipulates "In the eventuality that the stage-I forestry clearance is not submitted by the project proponent within the prescribed time limit mentioned at para (ii) above, as and when the stage-I forestry clearance is submitted thereafter, such projects would be referred to EAC / SEAC for having a relook on the proposal on case by case basis depending on the environmental merits of the project and the site. In such a situation the EAC / SEAC may either reiterate its earlier recommendations or decide on the need for its reappraisal, as the case may be. In the eventuality, a reappraisal is asked for,

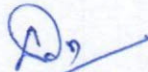


Committee will simultaneously decide on the requirement of documents / information for reappraisal as also the need for a fresh public hearing”.

The SEAC after detailed presentation by the project proponent along with consultant noted that the public hearing for the proposal had already been conducted earlier on 15.05.2012 and a copy of which is also furnished with EIA/EMP report earlier. For this reason, conducting a fresh Public Hearing may be exempted. Environmental Clearance for the proposal had already been recommended. But, due to non-submission of stage-I Forest Clearance within the stipulated time, Environmental Clearance could not be issued. This is a proposal for reappraisal. The SEAC, after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC, Govt. of India OM No.J-11013/41/2006-IA.II(I), dated 18.05.2012, recommended for exemption of fresh public hearing for the proposal as well as **recommended for issuing Standard Term of Reference as per Annexure- I along with additional specific conditions as recommended by CSIR-NEERI on carrying capacity study as per Annexure - II** for undertaking EIA and preparation of Environmental Management Plan (EMP).



Sri. B. P. Singh  
Chairman, SEAC



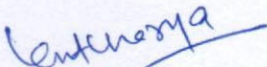
Dr. D. Swain  
Member, SEAC



Prof. (Dr.) P.K. Mohanty  
Member, SEAC



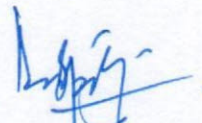
Sri. J. K. Mohapatra  
Member, SEAC



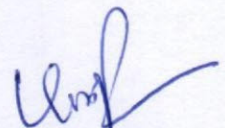
Sri. K. R. Acharya  
Member, SEAC



Dr. Sailabala Padhi  
Member, SEAC

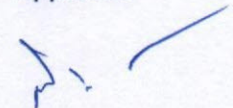


Prof. (Dr.) B.K. Satpathy  
Member, SEAC



Dr. K.C.S Panigrahi  
Member, SEAC

Approved



Chairman, SEAC

