

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 19<sup>TH</sup> NOVEMBER, 2019**

The SEAC met on 19<sup>th</sup> November, 2019 at 03:00 PM 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. Mohapatra     | - | Member   |
| 4. Prof.(Dr.) B.K. Satpathy | - | Member   |
| 5. Dr. Sailabala Padhi      | - | Member   |
| 6. Dr. K.C.S Panigrahi      | - | Member   |

**CONSIDERATION OF OLD CATEGORY B PROPOSALS:**

**ITEM NO. 1**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR TWO BLOCKS OF (B+G+13) & TWO BLOCKS OF B+G+9) MULTISTORIED AND ONE BLOCK OF (G+6) EWS RESIDENTIAL APARTMENT BUILDING AT KORADAKANATA & JHARAPADA, BHUBANESWAR OF M/S. PREMSHREE REAL ESTATE PVT. LTD WITH TOTAL BUILT UP AREA 34862.14 M<sup>2</sup> (EC).**

- The proposed site is located at Koradakanta, Jharapada, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site is: Latitude - 20°16' 47.6" N & Longitude - 85° 52' 25.3" E. The project site is well connected through National Highway NH-203 Cuttack-Puri Bypass road is just nearby the project site. The nearest railway station is Bhubaneswar Railway station at a distance of approx 3.6 Km in South West direction. The nearest airport is Biju Patnaik Airport at a distance of approx. 7.0 Km in South West direction from project site.
- The proposed project site is coming in Plot No. 566 (P), 295 (P), 294 (P), Mouza-Koradakanta & Plot No. 2182 (P), Mouza- Jharpada, Bhubaneswar. 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 1447.5 mm.
- The building detail of the project is as follows:

Particular	Name/Area (sqm)	Permissible	Proposed
Project Name	Residential Apartment at Koradakanta, Odisha.	--	--
Name of the Activity	Two Blocks of (B+G+13) & Two Blocks of (B+G+9) Multistoried And One Block of (G+6) EWS Residential Apartment Building	--	--
Plot Area	12677.33 sqm	12677.33 sqm	12677.33 sqm
Permissible Ground Coverage @ 30 % of the total plot area	--	3803.19 sqm	-
Proposed Ground Coverage @ 27.83 %	--	--	3528.51 sqm
Permissible FAR @ 2.75	--	34862.67 sqm	---

Particular	Name/Area (sqm)	Permissible	Proposed
Proposed FAR @ 2.75	--	--	34862.67 sqm
Built up Area	--	--	34862.67 sqm
Maximum Height	--	--	42 m
Road Area (40.21 %)	--	--	5097.65 sqm
Open Parking Area (7.7 %)	--	--	978.49 sqm
Basement Parking	--	--	9381.78 sqm
Stilt Parking	--	--	533.36 sqm
Total Parking (30 % of Built up Area )	--	10458.64 sqm	10893.63 sqm
Green Area (20 %)	--	2535.46 sqm	2539.46 sqm
Maximum No. of Floor	--	--	B+14
Power/Electricity Requirement & Sources	CESU of Odisha State Electricity Board	--	1233.7 KW
No. of DG sets	--	--	1 x 750 KVA DG
Water requirement & Sources	Ground Water Supply	--	94.0 KLD
Sewage Treatment & Disposal	--	--	STP Capacity - 140 KLD
Estimated Population- Residential, Floating/visitors	--	--	1111

#### 4. **REQUIREMENT FOR THE PROJECT:**

##### **Power requirement:**

The daily power requirement for the proposed complex is preliminarily assessed as 1233.7 KW source from CESU of Odisha State Electricity Board. In order to meet emergency power requirements during the grid failure, there is provision of 1 no. of DG set having 750 KVA capacities for power back up in the Residential Building Project.

For energy conservation, there will be 65 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting, so

Energy conservation by using Solar Street Lighting =  $65 \times 72 = 4680$  watt = 4.7 KW

Energy conservation by using Solar lighting for common area = 65 KW

Total Energy Conservation =  $(65 + 4.7)$  KW = 69.7 KW

Total Energy saving =  $69.7/1233.7 = 0.0564 \times 100 = 5.6$  %

##### **Water requirement:**

Fresh make up of 94.0 m<sup>3</sup>/day will be required for the project which will be sourced from Ground water or PHD Supply. Waste water of 122.2 KLD will be treated in a STP of 140 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Gangua Nalla.

Rain Water will be harvested through 23 nos. of recharging pits.

### **Fire fighting Installations:**

Firefighting system will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4).

### **Green Belt Development:**

Green belt will be developed over an area of 2535.46 sqm which is 20.0 % of the plot area; by using the local species like Bara gachha, Nageswar, Neem, Ashok, Polanga, Jamu, Bela, Pijilu, Kaniara, Tagar, Heena, etc.

### **Solid Waste Management:**

From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.4 kg/capita/day, which will be about  $1010 \times 0.4 = 404$  kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured bins. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste.

Waste generation from road sweeping will be  $101 \times 0.1 = 10.1$  kg/day. Solid waste from sweeping and Dry Garbage containing non biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved agency for final disposal.

Around 56 kg/day of STP sludge will be generated. As sewage sludge contains many elements essential to plant life, such as nitrogen, phosphorous, potassium, and in addition, at least traces of minor nutrients which are considered more or less indispensable for plant growth, such as boron, calcium, copper, iron, magnesium, manganese, sulphur and zinc. The sludge humus, besides furnishing plant food, benefits the soil by increasing the water holding capacity, thus making possible the working of heavy soils into satisfactory seed beds. Sludge will be used as manure in landscaping.

Sl. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	1010 @ 0.4 kg/day	404
2.	Road sweeping	101 @ 0.1 kg/day	10.1
3.	STP sludge		56
<b>Total Solid Waste Generated</b>			<b>470.1 kg/day</b>

### **5. Estimated Project cost:**

Total Capital Cost = ` 45 Crores

Environment Management Cost = ` 105 lakhs

6. The consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar** along with the proponent made a detailed presentation on 01.09.2017. The SEAC decided to take decision on the proposal after receipt certain information / documents.
7. The SEAC also decided that the proposed site to be visited by sub-committee of SEAC to verify the drainage network of the proposed site.
8. The proposed site was visited by the Sub-Committee of SEAC on 22.11.2017. The sub-Committee recommended to submit certain information / documents for consideration of the proposal.
9. The proponent was requested to furnish the following information / documents as per the presentation meeting held on 01.09.2017 and site visit report of the sub-committee of SEAC. The proponent furnished some of the information / documents.

- (i) Drainage system of the area and final discharge point.
  - (ii) Water quality of Gangua Nallah if the waste water to be discharged to Gangua nallah.
  - (iii) Permission status of concerned authority for discharge of waste water to Gangua nallah.
  - (iv) Solid Waste Management Plan as per Solid Waste Rules, 2016.
  - (v) Proposal for organic waste converter for disposal of organic waste.
  - (vi) In between the culvert on National Highway and the Gangua Nallah there is a distance of 0.5 km. The storm water naturally flows over such stretch of land. It is not known whether such land stretch is private or Govt. land. The status of land of that stretch is to be furnished.
  - (vii) The master plan of BDA for the area may be submitted which is necessary to ensure that the discharged treated water falls into Gangua Nallah.
  - (viii) Area under tree / plantation shall be clearly shown in the layout map with number of plants (tree species) to be planted and submitted.
10. The MoEF&CC, Govt. of India notification vide S.O. 5733 (E), 14th Nov, 2018 stipulates that local bodies such as Municipalities, Development Authorities, District Panchayats shall stipulate environmental conditions while granting building permission in respect of building or construction projects with built-up area >20,000 m<sup>2</sup> to 50,000 m<sup>2</sup> and industrial sheds, educational institutions, hospitals and hostels for educational institutions 20,000 m<sup>2</sup> upto 1,50,000 m<sup>2</sup>.
  11. The MoEF&CC, Govt. of India notification vide S.O. 5736 (E), 15th Nov, 2018, exempted Environmental Clearance for building and construction project < 50, 000 m<sup>2</sup> and industrial sheds, educational institutions, hospitals and hostels for educational institutions < 1,50,000 m<sup>2</sup>.
  12. The proponent had requested to consider the proposal as per MoEF&CC, Govt. of India notification dated 15th November, 2018.
  13. The SEAC in its meeting held on 03.12.2018 opined that Environmental Clearance is not required for this project as per the MoEF & CC, Govt. of India notification vide S.O. 5736 (E), 15th Nov, 2018 as the total builtup area is< 50, 000 m<sup>2</sup> . Hence, proposal was returned to SEIAA.
  14. Moreover, the Hon'ble NGT, Principal Bench, New Delhi in O.A. No. 1017/2018, dated 03.12.2018 has stayed the above notifications of MoEF&CC, Govt. of India.
  15. The SEAC in its meeting held on dated 13.12.2018 recommended that the SEIAA, Odisha may consider to request the MoEF&CC, Govt. of India regarding the operational part of the above notifications of MoEF&CC, Govt. of India in view of directions of Hon'ble NGT, Principal Bench, New Delhi before taking a decision on the proposals under the above category.
  16. During the last meeting of SEIAA held on 05.04.2019, the authority had decided to send the building and construction projects under above category to SEAC, Odisha for appraisal as per the OM No. 3-150/2017-IA-III dated 03.04.2018. This decision of SEIAA, Odisha was communicated by the SEIAA office to SEAC office vide letter no. 6621/SEIAA, dated 17.04.2019.
  17. The SEAC decided to appraise building and construction projects of above category as per above decision of the SEIAA, Odisha.
  18. The SEAC verified the information / documents furnished by the proponent as per para-9 and observed the following :

Sl. No.	Clarification sought	Compliance furnished by the proponent
(i)	Drainage system of the area and final discharge point.	Master plan along with final discharge point of the Gangua Nallah has been furnished.
(ii)	Water quality of Gangua Nallah if the waste water to be discharged to Gangua nallah.	Water quality of the Gangua Nallah has been furnished.
(iii)	Permission status of concerned authority for discharge of waste water to Gangua nallah.	PHED letter for water and sewerage discharge has been furnished.
(iv)	Solid Waste Management Plan as per Solid Waste Rules, 2016.	Solid Waste Management Plan has been furnished.
(v)	Proposal for organic waste converter for disposal of organic waste.	Proposal for organic waste converter for disposal of organic waste has been furnished.
(vi)	In between the culvert on National Highway and the Gangua Nallah there is a distance of 0.5 km. The storm water naturally flows over such stretch of land. It is not known whether such land stretch is private or Govt. land. The status of land of that stretch is to be furnished.	Stretch land belongs to Government.
(vii)	The master plan of BDA for the area may be submitted which is necessary to ensure that the discharged treated water falls into Gangua Nallah.	Treated water to be discharged to Gangua Nallah. Drainage plan and Master plan of the BDA has been furnished.
(viii)	Area under tree / plantation shall be clearly shown in the layout map with number of plants (tree species) to be planted and submitted.	Total greenbelt area is 2535.46 m <sup>2</sup> (20% of the total plot area). Layout plan has been furnished along with list of tree species.

19. The SEAC on its meeting held on 27.04.2019 observed that most of the members in the SEAC are new and not aware about the project. Therefore, Committee decided to ask the proponent to make a presentation on compliance furnished for consideration of their proposal.
20. The Environment consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar** along with the proponent made a presentation on 20.07.2019 on compliance furnished. The SEAC decided to take decision on the proposal after receipt of following information / documents from the proponent.
- (i) In case drainage passes through the private land, the ownership of the land in favour of the proponent is to be submitted and in case it passes through Govt. land, the drainage plan / map need to be endorsed / validated by BDA.
21. The project proponent has furnished compliances as desired by the committee vide letter no: 170 dated 28.10.2019 as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
1.	In case drainage passes through the private land, the ownership of the land in favour of the proponent	Affidavit copy submitted for ownership of land in favour of the proponent and Drainage map validated by	The drainage map has not been validated by BDA. No stamp / signatory on the map is available.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	is to be submitted and in case it passes through Govt. land, the drainage plan / map need to be endorsed / validated by BDA.	BDA	

The SEAC decided to take decision on the proposal after the proponent submits the following:

- a) The drainage plan / map need to be endorsed / validated by BDA.

## **ITEM NO. 2**

### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PIPALPADAR GEM STONE DEPOSIT (CAT'S EYE) OVER AN AREA OF 17.122 HECTARES IN VILLAGE PIPALPADAR & SIRJAPALLI, TALUKA-KESINGA, DIST-KALAHANDI OF M/S SANJUKTA GEMS, SHIV KUMAR BANSAL. - (EC)**

1. Pipalpadar mining lease area over 17.122 hectares in village Pipalpadar of Kalahandi district, Odisha is granted for mining lease of Gemstone (Cat's eye) for a period of 20 (twenty) years in favour of M/s Sanjukta Gems vide terms and conditions letter No. -7496 III (M) SM 28/02, dated 27.07.2005 of Department of Steel and Mines, Govt. of Odisha, Bhubaneswar. The Latitude of the proposed site is 20° 19' 37" N to 20° 20' 09" N and the Longitude is 85° 23' 44" E to 83° 24' 02" E.
2. Gemstone (Cat's eye) in the M.L area is proposed to be mined out by conventional method of opencast manual mining through the formation of safe benches which will be on single shift basis. Loosening, excavation and transportation will be effected through pickaxe, hand shovel, chisel etc. with single shift working. Total manpower requirement for the project will be 105 nos.
3. The lease area is granted in favour of M/s Sanjukta Gems which will be operated after the execution of mining lease deed. It is evident that demonstrated mineable reserve of Gemstone is 575.625 kg and that has formed on the basis for working over this Pipalpadar deposit in the M.L area of 17.122 hectares to produce Gemstone (Cat's eye) from 39,750 gm in the first year to 42,750 gm per annum in the fifth year of the ensuing plan period.
4. Nearest township is Keshinga. The applied ML area can be approached from Kesinga via- Rampur over a distance of around 30 km and the nearest railway siding in existence is at Kesinga at a distance of 30 km from the area.
5. There is top soil generation during the plan period. The M.L area is exposed with thin layer of Pegmatite & Khondalite at top up to 10m depth. A total of 394750 m<sup>3</sup> (in-situ) and waste/rejects is likely to be generated during the plan period. Depending upon the essentiality, out of these waste/rejects about 40% or more is assumed to be utilized concurrently for construction and maintenance of road in & outside the lease area and will be sold to the local entrepreneurs for use as construction materials. The remaining wastes will be dumped over an area of 2.27 m<sup>3</sup> with single terrace at an average of 6m height (max.) on the barren land towards the northern as well as southern part of the M.L area.
6. These saleable stone will be stacked on temporary basis on the barren land towards the eastern as well as western part of the M.L area. Site services such as site office-cum-first-aid center and rest shed will be constructed in the M.L. area. A tube well will be dug in the M.L area to avail the drinking water.

7. The programme of afforestation is proposed to plant @ 480 nos. of saplings per hectare along the safety zone, free area and avenue dump slopes etc. Accordingly 480 nos of sapling are required over an area of 0.3 hectare during the five (5) years of the plan period. Local species like Teak, Sal, Mahul and other local species as available are proposed to be planted with a spacing of 2.5 m between two consecutive plants. No electricity connection within ML area. However, solar lights will be employed for day to day living purposes. Diesel requirement of 10000 liters/month for operation of mining equipment and DG sets. Proposed cost of the project will be ` 3.20 Crore.
8. Modified mining plan has been approved under rule 22 of MCR, 1960 vide approval letter no. BBS/KLN/Cat's Eye, dated 03.05.2007. This is a new mine. No mining activity has been started within the lease area. Life of the mine is 12 years.
9. 10 m<sup>3</sup> water will be required daily for the washing unit; of which 80% will be recirculated & rest 2 m<sup>3</sup> will be make up water.
10. ToR for proposed project was granted on vide letter No. 502/SEAC-137 dt. 19.06.2018
11. The baseline study was carried during the period from Mar-May 2018. The baseline monitoring and analysis of different environmental parameters was conducted by M/s Kalyani Laboratories Pvt. Ltd.
12. Public consultation/hearing for the project was conducted on 20.11.2018 at 11.00Am at G.P Office, Sirjapali of Kesinga Tahsil, district of Kalahandi in accordance with the MoEF&CC, EIA Notification No.SO-1533(E) dt 14.09.2006.
13. The Consultant, **M/s Kalyani Laboratories Pvt. Ltd., Plot No.- 1867, Bomikhal, Bhubaneswar – 10** made a detailed presentation on behalf of the project proponent.
14. SEAC on its meeting held on Dt: 12.06.2019 decided to take decision on the proposal after receipt of certain information / documents from the proponent. The project proponent has furnished compliances as desired by the committee vide letter dated 25.10.2019 as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Copy of the documents in support of the fact that the Proponent is the rightful lessee of the mine should be given.	The mining lease has been granted in favour of <b>M/s Sanjukta Gems</b> . The copy of Lease grant letter attached as <b>Annexure-1</b> .  A copy of land document schedule attached as <b>Annexure-2</b> .
2.	Copy of all documents related to lease sanctioned starting from year 2005 to 2017.	➤ In the year 2005 the mining lease has been granted in favour of M/s Sanjukta Gems vide letter No. <b>7496/SM</b> dated <b>27.07.2005</b> , Department of steel and Mines, Govt. of Odisha, Bhubaneswar. The copy attached as <b>Annexure-3</b> .  ➤ In 2007 year, the mining plan has been approved under rule 22 of MCdeR,1960 by Regional Controller of Mines vide letter no. <b>BBS/KLN/Cat's eye MP-297</b> on dated <b>3.5.2007</b> & the mining lease has been granted by Department of Steel & Mines vide letter no. <b>9242/SM</b> on dated <b>12.11.2007</b> The copy attached as <b>Annexure-4 &amp; 5</b> .  ➤ In year 2008, the letter of Director of Mines to the

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		<p>Joint Secretary of the Govt has instructed to ensure about calculation of royalty for fixation of stamp duty on the granted area vide letter no. <b>4993/DM</b> on dated <b>26.04.2008</b>. The copy attached as <b>Annexure-6</b>.</p> <p>➤ Then on this day, a letter from Mining officer Kalahandi, Bhawanipatna for execution of mining lease vide letter <b>no.1035/Mines</b> on dated <b>26.04.2008</b> in favour of Sanjukta Gems requested to submit all original duplicate mining lease deeds on non-judicial stamp papers before 12.05.2008, so that it can be executed by the collector within the time allowed by the govt. The copy attached as <b>Annexure-7</b>.</p> <p>➤ After that, a letter from Smt. D.S.Jena (Secretary to Government) to the collector of Kalahandi for grant of mining lease for Gemstone (Cat's eye) vide memo no.<b>217/SM</b> on dated <b>09.01.2008</b>. The copy attached as <b>Annexure-8</b>.</p> <p>➤ On dated <b>17.05.2008</b>, vide letter no.<b>1245/Mines</b> from the Mining Officer Kalahandi Circle Bhawanipatna to Sanjukta Gems requested to submit financial assurance of Rs1.00Lakh to Regional Control of Mines and to produce documents to that effect only which stamp duty may be fixed as instructed by the Under Secretary to Govt Steel &amp; Mines Department, Orissa and Bhubaneswar &amp; also requested to submit copy of approved mining plan of the granted area for taking necessary action. The copy attached as <b>Annexure-9</b>.</p> <p>➤ With reference to the letter no.<b>1245/Mines</b> on dated <b>17.05.2008</b> (<b>Annexure-9</b>), M/s Sanjukta Gems proprietor Shiv Kumar Bansal endorsed to the Mining Officer of Kalahandi that he had already assured bank guarantee of Rs 1lakh in Andhra Bank, Kesinga on 30.05.2008, the copy has been attached for your reference and had also intimated to the Regional Control of Mines, I.B.M., Bhubaneswar &amp; requested to fixed up stamp duty for execution of M.L deed within the schedule date (09.07.2008) as per Govt in Steel &amp; Mines Department. The copy attached as <b>Annexure-10</b>.</p> <p>➤ The collector of Kalahandi to Under Secretary to Govt Steel &amp; Mines Department, Orissa and Bhubaneswar the instructed to ensure about the time extension for execution of granted M.L Area vide letter no.<b>2091/mines</b> on dated <b>21.07.2008</b> for Cat's eye in vill: Pipalpadar &amp; Sirjapali, P.S:</p>



Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		<p>Kesinga, over an area of 42.31Acre or 17.122Ha in Kalahandi district in favour of M/s Sanjukta Gems, Proprietor Shiv Kumar Bansal. Copy attached as <b>Annexure-11.</b></p> <p>➤ Vide letter no.6057/<b>SM</b> on dated <b>20.06.2008</b> from Smt. D.S.Jena to the Director of Mines, Director of Geology, Bhubaneswar for calculation of royalty for fixation of stamp duty on the granted area of M.L for Gem stone. Copy attached as <b>Annexure-12.</b></p> <p>➤ A letter from the Joint Director of Geology, Balangir for clarification on the Cat's eye report of Sirjapali to the Director of Geology, Bhubaneswar vide letter no.<b>558/BZ</b> on dated <b>30.05.2009</b>. Copy attached as <b>Annexure-13.</b></p> <p>➤ Again a letter from the Joint Director of Geology, Balangir for submission of Report on Sirjapali Gemstone (Chrysoberyl) M.L areas to the Director of Geology, Bhubaneswar vide letter no.<b>282/BZ</b> on dated <b>21.02.2009</b>. Copy attached as <b>Annexure-14.</b></p> <p>➤ A letter from R.N Parida, the Director of Geology for submission of Report on Sirjapali Gemstone (Chrysoberyl) M.L area to the Joint Director of Geology, Zonal Survey, and Bolangir vide letter no.<b>3035/DG</b> on dated <b>27.03.2009</b>. Copy attached as <b>Annexure-15.</b></p> <p>➤ On dated <b>21.10.2009</b> vide letter no.<b>6709</b> was from Smt.D.S.Jena Under Secretary to Govt to the Director of Mines, Bhubaneswar for the calculation of royalty for fixation of stamp duty on the granted area of M.L Area for Cat's eye in vill: Pipalpadar &amp; Sirjapali, P.S; Kesinga, over an area of 42.31Acre or 17.122Ha in Kalahandi district in favour of M/s Sanjukta Gems. Copy attached as <b>Annexure-16.</b></p> <p>➤ On dated <b>15.02.2010</b>, vide letter no.<b>815/SM</b>, the Department of Steel &amp; Mines legitimate to the Director of Mines, Bhubaneswar for fixation of stamp duty on the granted area of ML for Gemstone (Cat's eye) of the applicant Company are required for consideration of execution of the said mining lease &amp; requested them provide their considered views based on the enclosed report of the Director of the Geology and letter of the applicant company for taking further action. Copy attached as <b>Annexure-17.</b></p> <p>➤ Again on dated <b>28.09.2010</b>, the Department of Steel &amp; Mines justified to the Director of Mines,</p>

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		<p>Bhubaneswar vide letter no.<b>6450/SM</b>, that the royalty at item no-51 of scheduled-II of M &amp; M (D &amp; R) Act, 1957 speaks of a 10% rate of sale price does not make any grades of minerals. So in this case Cat's eye is a semi-precious mineral. Copy attached as <b>Annexure-18</b>.</p> <p>➤ S.K Das the Director of Mines, Bhubaneswar, Orissa in his letter no.<b>2615/DM</b> on dated <b>04.03.2011</b> has justified to the department of Steel &amp; Mines, Bhubaneswar, Orissa the mineral Cat's eye was that time not included in the list of minerals for the publication of average value statement as the Indian Bureau of Mines has no information on production pit's mouth value etc from Orissa/all India &amp; has suggested to survey by the geologist to identified the grade and deposit to fix the rate of royalty as per the item no.51 of scheduled-II of the M.M (D &amp; R) Act-1957. Copy attached as <b>Annexure-19</b>.</p> <p>➤ Then M. Pattnaik, the Director of Geology in his letter no.<b>9330/DG</b> on dated <b>28.07.2012</b> justified to the Steel &amp; Mines department, Bhubaneswar, Odisha that out of 32 pieces of Chrysoberyl samples which are collected from the M.L area of M/s Sanjukta Gems, 2 pieces are identified to be glass. Hence % of Chrysoberyl Cat's eye of different grades have been calculated taking into consideration the remaining 30 pieces. Copy attached as <b>Annexure-20</b>.</p> <p>➤ In <b>05.05.2016</b>, vide letter no.<b>454/Mines</b>, the Mining Officer Kalahandi, Bhawanipatna directed to the Managing Director O.M.C, Bhubaneswar that the Mining Lease is liable to be considered by the Government under the Provision of section 10A (2) of M&amp; M (D &amp; R) amendment act, 2015 &amp; requested to attend the said meeting as per scheduled date, time venue along with details of the compliance. Copy attached as <b>Annexure-21</b>.</p> <p>➤ In <b>07.01.2017</b>, vide letter no.<b>258/SM</b>, the Department of Steel &amp; Mines recommended for grant of mining lease over the entire applied area of 17.122Ha or 42.31Acre. Copy attached as <b>Annexure-1 &amp; 2</b>.</p>
3.	Certificate from mining officer that mining activity has not been started.	The Mining Officer of Kalahandi Circle, Bhawanipatna issued a letter regarding the existence of other mines in 500m radius of Pipalpadar & Sirjapali, P.S; Kesinga, over an area of 42.31Acre or 17.122Ha in Kalahandi district in favour of to M/s Sanjukta Gems, Prop.Shri Shiv Kumar Bansal vide letter no. <b>411/Mines</b> on dated

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		<p><b>28.06.2019.</b> No mining activity has not been started in the lease hold area till date by the lessee. Copy attached as <b>Annexure-22.</b></p>
4.	Detailed proposal for treatment of waste water generated during washing of gems.	<ul style="list-style-type: none"> <li>➤ The water requirement of the washing plant is 10m<sup>3</sup>/day. Out of total water used, 90% is recirculated whereas. 10% is required as daily make up water. With the addition of alum heavier clay particles along with sand settles down in the settling tank and clear top water is drained out to reuse in the process.</li> <li>➤ Waste water generated from the washing plant will be allowed to settle down in a settling tank &amp; the pure water will be recirculated for use in the washing plant. A copy of the same is attached as <b>Annexure-23.</b></li> </ul>
5.	A nallah is flowing inside the lease area. Detailed proposal to protect the nallah during mining activity.	<ul style="list-style-type: none"> <li>➤ There is a seasonal nalla passing through the lease area.</li> <li>➤ The existing nalla within the lease will remain untouched and protected stone pitching on both the banks and plantation of small grasses to restore the soil erosion.</li> <li>➤ There is the proposal for construction of check dam in the nalla to store water which will be utilized in the process of washing.</li> <li>➤ Rainwater harvesting by constructing check dams on natural nalla and developing water bodies will be planned for recharging groundwater and utilization in washing plant.</li> <li>➤ A buffer zone of 5m will be provided between the nalla and the mining activity so that the water flow of the nalla will not disturb.</li> <li>➤ All the dumps and quarries will be provided with garland drain and retaining wall to retain the wash off from the mines.</li> <li>➤ The mine drainage water will settled properly before discharge to the nalla during rainy season.</li> <li>➤ The copy of protection of nalla attached as <b>Annexure-24.</b></li> </ul>
6.	Permission status of ground water withdrawal from Water Resources Department, Govt. of Odisha.	<ul style="list-style-type: none"> <li>➤ Total water requirement for the project will be 5 KLD out of which 1 KLD for makeup water for washing unit, 2 KLD for dust suppression and 2 KLD water required for drinking and domestic purpose.</li> <li>➤ Water required for makeup water in washing of gemstone and dust suppression will met from the rain water harvesting structure construction on the Nala.</li> <li>➤ Further water requirement for drinking and domestic use (2 KLD) will met from tube well.</li> <li>➤ As the ground water requirement is very less i.e. 2 KLD ground water permission is not required for the project.</li> </ul>

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		<ul style="list-style-type: none"> <li>➤ Application has been made to CGWA for abstraction of ground water. (Copy of application attached as <b>Annexure 25</b>)</li> <li>➤ There is also a proposal for construction of check dam in the nalla to store water which will be utilized in the process of washing and rainwater harvesting by constructing check dams on natural nalla and developing water bodies will be planned for recharging.</li> </ul>

Considering the information furnished and the presentation made by the consultant **M/s Kalyani Laboratories Pvt. Ltd., Plot No.- 1867, Bomikhal, Bhubaneswar – 10**, the SEAC recommended for grant of Environmental Clearance with stipulated conditions as per **Annexure – A.**

### **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 built-up 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 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 of 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.
16. The SEAC on its meeting held on Dt: 26.07.2019 decided to take decision on the proposal after receipt of certain information / documents from the proponent followed by a site visit by the Sub-Committee of SEAC. Now the project proponent has furnished the compliance vide letter no: 430/PH/OSHB dated 06.09.2019 and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Status of land as on 25.10.1980 w.r.t. Forest Conservation Act, 1980	The kissam of land is Patita is enclosed in <b>Annexure - I</b>
2.	Detailed land schedule and kisam of land. Status of conversion of land to Gharabari	The land schedule and converted to Gharbari is enclosed in <b>Annexure - II</b>
3.	Details of status of village forest near to the plot	OSHB land is free from forest land.
4.	Detail of stack height of DG set	42 meters from the ground level as <b>Annexure – III</b>
5.	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	6 nos. higher capacity DG provided in place of 16 nos. of lower capacity DG and details enclosed in <b>Annexure – III</b>

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	be submitted	
6.	Details of Fire corridor	Detail plan Fire corridor is attached as <b>Annexure – IV</b>
7.	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	Provisions are there. Detail plan attached as <b>Annexure – V</b>
8.	Details of Organic Convertor shall be submitted	Provisions are there. Detail plan attached as <b>Annexure – V</b>
9.	Status of building plan approval from BDA	It is under process. Copy of the letter from BDA is attached as <b>Annexure – VI</b>
10.	Study of heat transfer in bricks to be carried out and report to be submitted.	The test report the bricks is attached as <b>Annexure – VII</b>

The Sub-Committee of SEAC visited the site on 23<sup>rd</sup> Oct 2019. The proponent needs to comply the following within 30 days from the date of issue of clarification letter as per recommendations of the sub-Committee to take decision on grant of Environmental Clearance for the proposal:

1. The proponent stated that the treated waste water will be discharged to the existing sewage line of BMC. In such a situation, they need to submit the following:
  - a) Permission letter from appropriate authority on existing sewage line for discharge of waste water in to their line system and the existing sewage line can hold the additional load of proposed project of OSHB.
  - b) Land acquisition / Land Lease / Land ownership as necessary for the land area to connect between the existing sewage line of BMC and the proposed project of OSHB.
2. The proponent stated that BMC / BDA have CDP (Comprehensive Development Plan) for construction of a road and a pipeline alongside the road to which they will connect to take the load of their runoff and storm water /excess water which will fall finally to the existing “nalla” available alongside the Railway line. The Committee visited the “Nalla” also. The proponent needs to submit the following in this context:
  - a) Ownership of that “Nalla”
  - b) In case it belongs to Railways and Railway line expands covering the said “Nalla”, their alternative plan for discharge of water. Otherwise permission from Railway in this context.
  - c) If the housing project period & the CDP of the Govt. does not synchronize with reference to construction of road and the pipe line alongside it, the alternative plant of OSHB need to be submitted.
3. A 3 phase line across the proposed site and few HT line towers were also found. The proponent needs to submit the permission of Transmission authority on shifting of 3 Phase line & the relevant HT Tower as necessary on the event of materialization of this housing project.

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

### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED EXPANSION FOR CONSTRUCTION OF HOUSING COLONY AND CONVENIENT SHOPPING (PHASE-III) OF M/S. Z-ESTATES PVT. LTD. AT KALARAHANGA, BHUBANESWAR WITH BUILT UP AREA 3,95,865.09 M<sup>2</sup> - (EC)**

1. This is a proposal for Environmental Clearance for proposed expansion for Construction of Housing Colony and Convenient Shopping (Phase-III) at Mouza- Kalarahanga, Bhubaneswar, Odisha.
2. The proposal falls under category 'B', Section 8 (b) "Townships and Area Development projects" of Schedule of EIA Notification 2006 and amendment thereafter.
3. The site is located at Kalarahanga, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site is: Latitude - 20° 22' 0.72" N & Longitude - 85° 50' 06.28" E. The project site is well connected with Nandan Kanan Road which take towards National Highway-6 (Kolkata-Chennai Road). Nandan Kanan road is 0.1 Km from proposed site. The nearest railway station is Mancheswar Railway station at a distance of approx. 5.1 Km in South direction. The nearest airport is Biju Patnaik Airport at a distance of approx. 13.5 Km in South West direction from project site. The site is easily accessible from Nandan Kanan Road.

#### **4. THE BUILDING DETAILS OF THE PROJECT:**

The proposed project is the Third phase of the building covering a built up area of 2,09,960.21 m<sup>2</sup> (including parking). The first phase building had a built up area 73,958.9 m<sup>2</sup> (Occupancy Obtained) & the second phase building had a built up area 1,11,945.98 m<sup>2</sup> (which is Under Construction) and the plot area is 1,23,717 m<sup>2</sup>. So total Built up area for Phase-I & Phase-II is 1,85,904.880 m<sup>2</sup> for which Environmental Clearance was obtained from SEIAA, Odisha vide letter no. **for Phase - I SEIAA – 261 / 10, dated 16.08.2011 and for Phase-II vide letter no. SEIAA/827, dated 23.02.2016**. Hence total built up area of the proposed project will be 3,95,865.09 m<sup>2</sup> & the revised plot area is 1,41,590.23 m<sup>2</sup>.

A comparative statement of the existing and proposed project with respect to built up area as well as other requirements are given below:

Sl. No.	Particular	Phase-I	Phase-II	Phase-III	Total
1.	Plot Area	1,23,717.0 m <sup>2</sup>		17,873.23 m <sup>2</sup>	1,41,590.23 m <sup>2</sup>
2.	Built up Area	73,958.9 m <sup>2</sup>	1,11,945.98 m <sup>2</sup>	2,09,960.21 m <sup>2</sup>	3,95,865.09 m <sup>2</sup>
3.	Green Belt Area	30,929.22 m <sup>2</sup>		20,922.87 m <sup>2</sup>	51,852.09 m <sup>2</sup>
4.	Road Area	20,000 m <sup>2</sup>		2,000.00 m <sup>2</sup>	22,000.00 m <sup>2</sup>
5.	Basement Parking Area	24,610.0 m <sup>2</sup>	25,371.0 m <sup>2</sup>	46,001.54 m <sup>2</sup>	95,982.54 m <sup>2</sup>
6.	Total Water Requirement	423.51 KLD	561 KLD	708 KLD	1692.51 KLD
7.	Fresh Water Requirement	234.17 KLD	310.79 KLD	471.0 KLD	1015.96 KLD
8.	Waste Water Requirement	262.3 KLD	448.7 KLD	602.0 KLD	1313 KLD
9.	STP Capacity	270 KLD	580 KLD	650 KLD	1500 KLD
10.	Power Requirement	2.3 MW	2.9 MW	3.1 MW	8.3 MW
11.	Solid Waste Generation	1.15 TPD	1.29 TPD	2.41 TPD	4.85 TPD

Sl. No.	Particular	Phase-I	Phase-II	Phase-III	Total
12.	Dwelling Unit	444 Unit	588 Unit	586 Unit 635 Units EWS	1618 Unit 635 Units EWS

#### BUILTUP AREA DETAIL PHASE WISE:

Sl. No.	Detail of building	Tower	Area in m <sup>2</sup>	Total built up area	
<b>Statement of area for Ph-I (completed)</b>					
1	B+G+14	1	10695.75	<b>73,958.9 m<sup>2</sup></b>	
2	B+G+14	2	8551.83		
3	B+G+12	3	6883.42		
4	B+G+14	4	8761.89		
5	B+G+14	5	9498.15		
6	B+G+12	6	7057.98		
7	B+G+14	7	8559.3		
8	B+G+14	8	10670.25		
9	Community Hall		2618.13		
10	Dormitory		662.20		
<b>Total Built up Area (Phase-I)</b>			<b>73,958.9</b>		
<b>Statement of area for Ph-II (under construction) &amp; Ph-III (proposed)</b>					
1	Ph-II Residential	111945.98	139970.59	<b>3,21,906.19 m<sup>2</sup></b>	
2	Ph-III Residential	139970.59			
4	EWS (G+22)		20159.50		
5	Convenient Shopping Building	G+2	757.03		
6	Toilet & Dormitory	G+1	180.20		
7	Toilet/Driver Rest Room	G	55.86		
8	Club House-II	G+2	2740.49		
9	Parking & Services		45736.54		
<b>Total Built up Area (Phase-III)</b>			<b>3,21,906.19</b>		
<b>Total Built up Area</b>					<b>3,95,865.09 m<sup>2</sup></b>
<b>Total Builtup Area (Phase-I + Phase-II + Phase-III = 73,958.9 + 3,21,906.19 = 3,95,865.09 m<sup>2</sup></b>					

#### 5. REQUIREMENT FOR THE PROPOSED PROJECT:

##### (i) Power requirement:

The daily power requirement for the proposed expansion Project is preliminarily assessed as **3045 KW** source from CESU of Odisha State Electricity Board. In order to meet emergency power requirements during the grid failure, there is provision of 3 nos. of DG set having 500 KVA capacities for power back up in the proposed expansion Project.

For energy conservation, there will be 120 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting, so

Energy conservation by using Solar Street Lighting =  $120 \times 72 = 8640 \text{ watt} = 8.6 \text{ KW}$

Energy conservation by using Solar lighting for common area = 200 KW

Total Energy Conservation =  $(200 + 8.6) \text{ KW} = 208.6 \text{ KW}$

Total Energy saving =  $208.6/3045 = 0.0685 \times 100 = 6.8 \%$

##### (ii) Water requirement:

Fresh make up of 471.0 m<sup>3</sup>/day will be required for the project which will be sourced from Ground Water Supply. Waste water of 602 KLD will be treated in a STP of 650



KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Buri Nalla. Rain Water will be harvested through 41 no. of recharging pits.

**(iii) Firefighting Installations:**

Firefighting system will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4).

**(iv) Green Belt Development:**

Green belt will be developed over an area of 51,852.09 sqm which is 35.40 % of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.

**(v) 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/capita/day, which will be about 5225 x 0.45 = 2351.25 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured beans. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste.

Waste generated from Floating people will be @ 0.15 kg/capita/day, which will be about 166 x 0.15 = 24.9 kg/day. Solid waste from sweeping and Dry Garbage containing non bio-degradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved agency for final disposal. The biodegradable waste will be converted to manure by an organic waste convertor, which will be used for landscaping.

Sl. No.	Category	Counts (heads)	Waste generated
1.	Residents	5225 @ 0.45 kg/day	2351.25
2.	Floating	166 @ 0.15 kg/day	24.9
3.	STP sludge		35
<b>Total solid waste generated</b>			<b>2411.15 kg/day</b>

6. The ToR for Phase- III had been granted by SEAC, Odisha vide letter no. 845 / SIA / OR / NCP / 28277 / 2018 / SEAC / 156, dated 12.10.2018.
7. Baseline study was conducted during spring season i.e. from March 2018 to May 2018.
8. ToR compliance regarding detailing of Project proponent, project consultants land description was compiled.
9. The proponent has obtained Certified Compliance Report for previous Environmental Clearance from Regional Office, MoEF&CC, Bhubaneswar on 11.12.2018.

**10. Estimated Project cost:**

Total Capital Cost = ` 300 Crores

Environment Management Cost = ` 2.25 Crores

11. The project proponent along with their consultants **M/s Enviro Infra Solutions Pvt. Ltd., 301, 302 & 305, SRBC building, Vasundhara Sector - 9, Ghaziabad, Uttar Pradesh - 201012 and M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar, Odisha** made a detailed presentation on the proposal before the SEAC.
12. SEAC on its meeting held on 12-06-2019, decided to take decision on the proposal after receipt of certain information / documents from the proponent followed by site visit by the

sub-Committee of SEAC. The project proponent has furnished compliances as desired by the committee vide letter dated 14.10.2019 as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
1.	Certificate from the concerned DFO about the distance of the project site from the Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary and Nandan Kanan Sanctuary	Certificate from the concerned DFO about the distance of the project site from the Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary and Nandan Kanan Sanctuary is attached in <b>Annexure-1</b> .  Hence, the site is outside the Chandaka-Dampara Eco-Sensitive Zone boundary.	The proponent has to submit the copy of application for Wildlife Clearance submitted to MoEF&CC, Govt. of India as the project is located within 10 km (default) from Nandan Kanan Sanctuary.
2.	Status of Wildlife Clearance along with copy of the application submitted for wildlife clearance (if any) as the project is located within 10 km (default) from the boundary of Nandan Kanan National Park	As per MoEF&CC notification no. S.O. 5736 (E), dated 15th Nov., 2018, General condition doesn't apply for Building & Construction Project. However the notification regarding Nandankanan Sanctuary is not yet notified and is still in the shape of draft notification (Enclosed as <b>Annexure-2</b> ). The letter from Director, Nandan Kanan Biological Park enclosed in <b>Annexure-3</b> .  However we are in the process of applying for Wild-Life clearance and copy of the same shall be submitted in due course.	The proponent has to submit the copy of application for Wildlife Clearance submitted to MoEF&CC, Govt. of India as the project is located within 10 km (default) from Nandan Kanan Sanctuary.
3.	Permission status from Water Resources, Govt. of Odisha for ground water drawal from phase – I onward including use of ground water / bore well at construction stage	Total Fresh water requirement for Phase-I & II is 551.20 KLD.  Total Fresh water requirement for Phase-III is 471.0 KLD.  Water permission letter from CGWA is attached in <b>Annexure-4</b> .  Letter from Directorate of Ground Water Development, Odisha is enclosed in <b>Annexure-5A &amp; 5B</b> .	Condition to be given in Environmental Clearance.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
		In the construction of Phase-II, Ground Water is not used during the construction activity.	
4.	A study to be carried out on impact on ground water table as the proponent is drawing huge quantity of ground water and study report to be submitted	The study of Water levels recorded in the data logger is measured in metre form March-19 to August-19 at 10:00 AM & 10:00 PM i.e. for a period of 6 months. During this period the water levels vary between 6.41 m and 9.74 m. It indicates there is a variation of 3.06 m in water levels in these 6 months. This variation water level seems to be due to seasonal fluctuation. 9.74 m occurs on 3 <sup>rd</sup> April, 2019 which is during pre-monsoon period. 6.41 m occurs on 6th July 2019 i.e. during monsoon month. It indicates there is a rise in water level during monsoon which is justified. The project proponent is drawing 220 m <sup>3</sup> of water per day. 17 nos of recharge structures, whose photographs are enclosed, have also been constructed to replenish ground water. To assess the impact on groundwater table as per the renewal NOC issued by CGWA vide letter No.21-4(287)/SER/CGWA/2011-683 dated 16.07.2019 the conditions must be implemented, data must be kept and the same should be submitted to CGWA on regular basis so that in future the impact on groundwater can be identified and mitigative measures can be	Condition to be given in Environmental Clearance.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
		implemented. Copy of the study report submitted to CGWB during obtaining NOC is enclosed as <b>Annexure-6</b> .	
5.	Certificate of compliance to Consent to Operate conditions of existing projects from State Pollution Control Board, Odisha	Letters has been submitted to State Pollution Control Board, Odisha for inspection and verify the compliance of Consent to Operate condition. Point wise compliance to conditions for Consent to Operate is given in <b>Annexure-7</b> .	Certificate of compliance to Consent to Operate conditions of existing projects from State Pollution Control Board, Odisha has to be submitted by the proponent.
6.	Detailed water balance phase wise and combined	For Phase- I & II Fresh Water Requirement is 551.20 KLD. Total Water Requirement is 984.51 KLD. Total Waste Water Generation is 710.84 KLD. For Phase- III Fresh Water Requirement is 471.0 KLD. Total Water Requirement is 708.0 KLD. Total Waste Water Generation is 602.0 KLD. For Phase- I, II & III Fresh Water Requirement is 1022.20 KLD. Total Water Requirement is 1692.51 KLD. Total Waste Water Generation is 1312.84 KLD. Phase wise and combined water balance is attached in <b>Annexure-8</b> .	Complied
7.	DG set stack height details including location and its effect w.r.t. sound and emission on periphery as well on the existing and proposed dwellers	The stack height for PH-I has been kept as per statutory norms and the location was made away from the building. The stack Height for PH-II & PH-III shall be kept as	The proponent has to comply as per report of the Sub-Committee of SEAC.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
		<p>per the statutory norms.</p> <p>The dispersion modeling also shows that</p> <p>Ambient Air Quality values are very low near the building and much lower than the stipulated norms. Details given in <b>Annexure-9</b>.</p> <p>Noise level of the area is well within the norm. Noise Monitoring Report is attached in <b>Annexure-10</b>.</p> <p>Every DG Set has an acoustic enclosure to dampen the noise generated.</p>	
8.	Details of STP for waste water treatment (phase wise).	<p>Capacity of STP for Phase I is 270 KLD, which is already in Operation.</p> <p>Capacity of STP for Phase II is 580 KLD, which is under construction.</p> <p>Capacity of STP for Phase III is 650 KLD (The technology and process details are under Technical Evaluation and shall be intimated after finalization.</p> <p>The function and treatment process for the existing STP (270 KLD) is attached in <b>Annexure-11</b>.</p>	The proponent has to comply as per report of the Sub-Committee of SEAC.
9.	Detailed calculation for providing rainwater recharge pits	<p>For Phase 1 total 17 nos. Of Rain Water Harvesting pits has been constructed for Ground Water Recharging.</p> <p>Phase II project is under construction stage. Details Rain water harvesting details for entire phases is attached in <b>Annexure-12</b>.</p> <p>Total 58 nos. of Rain Water Harvesting Pits shall be provided after completion of entire project.</p>	The proponent has to comply as per report of the Sub-Committee of SEAC.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
10.	Details of Solid Waste Management (phase wise). If outsourced, copy of agreement with agency collecting solid waste from the premises	<p>Solid waste generation for Phase I &amp; Phase II will be 2.44 TPD.</p> <p>Solid waste generation for Phase III shall be 2.41 TPD.</p> <p>Detail of Solid Waste Management (phase wise) is attached in <b>Annexure-13</b>.</p> <p>The solid waste disposal has been outsourced by M/s United Resorts &amp; Services LLP (The facility management company for Z-1). The agreement copy is attached in <b>Annexure-14</b>.</p>	The proponent has to comply as per report of the Sub-Committee of SEAC.
11.	Details of discharge points	<p>The excess storm water has been discharged to Municipality drain running in-front of project site.</p> <p>The Excess treated water, if any, shall be discharged to Municipality drain running in- front of project site.</p> <p>The map showing location of Storm &amp; Excess treated water discharge point is given in <b>Annexure-15</b>.</p>	The proponent has to comply as per report of the Sub-Committee of SEAC.
12.	Permission status from explosive controlling authority for use of diesel / LPG for the existing projects	<p>We have not proposed any HSD storage Tanks for fuel storage, so there is no license required.</p> <p>Since the LPG cylinders are connected to manifold no explosive License is required. Certificate is attached in <b>Annexure-16</b>.</p>	Complied
13.	Detailed proposal for installation of Organic Waste Converter / Polycrack Machine for Solid Waste Management and if	There is no Organic waste converter in the existing phase. However we are planning to have Organic waste converter/composting machine to be installed in	Condition to be given in Environmental Clearance.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	done for the existing project, details process to be submitted	the ongoing PH-II.	
14.	Matrix of greenbelt for different phases of the project	Total Green belt area is 51852.54 sqm. Details Green belt plan is given in <b>Annexure-17</b> .	The proponent has to comply as per report of the Sub-Committee of SEAC.
15.	Basis of calculation of waste water used for dust suppression and landscaping	As per Norms 4 liter water is required for per square meter Green Belt Area. Landscaping (4 ltr/sqm of GB) = $17950 \times 4 = 71800$ liter = 71.8 KLD As per Norm 2 liter water is required for per square meter Road Area. Dust Suppression (2 ltr/sqm of Road Area) = $11000 \times 2 = 22000$ liter = 22.0 KLD	Complied
16.	Action Taken Report (ATR) on "Being complied" portion of the certified compliance report of MoEF&CC, Govt. of India	Action Taken Report is given in <b>Annexure-18</b> .	Complied
17.	Other major construction features in the periphery if any and their distances	These are the major construction activity near periphery of project site. 1. M/s S J Developers (Royal Lagoon) 2. M/s Mani Tribuhvan	Complied

13. The Sub-Committee of SEAC conducted site visit on 25.10.2019 and observed the following:

**a) Green Belt:**

While the proponent stated to develop necessary green belt in the green belt areas and plant species in due course for Phase-II (under Construction) & Phase –III proposed, Green Belt for Phase – I is virtually absent except decorative plants such as *Krushna chuda*, *Ficus panda* etc. in the periphery of the boundary of Phase - I and land scaping.

- (i) The width of the area along boundary may be less than a meter even, therefore, the area covered to have claimed under green belt even with decorative plants may be much less than the prescribed guidelines. Hence, a compliance in matter is necessary which may be asked from the proponent.
- (ii) Green belt needs to be strengthened with local shade bearing species like Akashmani, Neem, Ashoka, Kadamba, Pollanga, Bela, Karanj etc. in consultation with local DFO for the prescribed area.
- (iii) Similar strict adherence for Phase II & Phase III (Proposed) is necessary for Greenbelt. Compliance report in context shall be submitted to SEIAA / SEAC.

**b) Fresh water (Ground Water):**

The Proponent stated to have three deep borewells for fresh drinking water and two of them were seen by the Sub-Committee and also visited the Piezometer installed by the proponent.

The proponent was advised to submit the following:

- (i) Valid 'NOC' from CGWA & permission for Water Resources Deptt, Govt of Odisha for Phase I for which borewell are in use since beginning, shall be submitted for Phase I & II. The project proponent shall also submit the dimensions of borewells & the water consumption details of last three months.

**c) Waste Water:**

The Sub-Committee visited STP installed in their premises. They claimed to have consumed almost complete waste water after treatment in vehicle (Car) washing & watering of plants excepting small quantity might be discharged to their own low lying areas following vacant for future expansion. They could not satisfactorily reply as to consumption of complete treated waste water during monsoon. Therefore, they must be discharging the excess treated waste water to open low lying areas available in their premises, even though the treated waste water is polluted & contaminated. So, the proponent needs to submit a detailed workable plan / scheme either for zero discharge / or discharge to main road side drain through ETP and oil water separation unit, particularly for monsoon period so that it will not affect the human health / environment.

**d) Rain Water Harvesting / Recharge Pits :**

The Sub-Committee of SEAC visited the roof top water harvesting system & the recharging pits. It was observed that the roof top water mixed with open drain water, which should be connected to recharge pit directly. But, water harvesting for storm water & run off water is not available for which they need to submit a workable plan & time frame to execute it for Phase – I and workable plan for Phase II & proposed Phase-III expansion.



**e) Solid waste Management:**

The proponent claimed to have outsourced for daily disposal of Solid waste being generated, but no mechanism either at source or at delivery point to outsourcing agency for separation into Bio-degradable & Non-biodegradable category could be seen.

Therefore, the proponent need to submit details of collection, segregation and disposal of solid waste for last three months to the outsourcing agency and submit the plan / mechanism for separation of solid wastes into Bio-degradable & Non-biodegradable wastes before disposing to outsourcing agency.

**f) Use of Renewable / Solar Energy :**

It is found to be absent for Phase – I completely. The proponent must submit a system along with the time frame for use of renewal / solar power at least as per the guidelines & preferably minimum 5% of their total power consumption for Phase I & similarly for Phase-II & III (Proposed) within a fortnight to SEIAA/ SEAC.

**g) DG Set:**

Location of DG sets (3 Nos.) installed for Phase – I was visited. The stack heights were found to be inadequate & negligible. The proponent must submit a design as applicable for such housing projects as per MoEF&CC / CPCB guidelines and DG rules for all three phases immediately within a fortnight time. Accordingly, they must replace / correct the stack heights as necessary for the existing area and accordingly plan for Phase II & Phase III.

After detailed discussion, the SEAC decided that the above mentioned points as observed by the Sub-Committee of SEAC shall be complied by the proponent in addition to non-compliance points as pointed out above for taking necessary decision in matter by the SEAC.

**ITEM NO. 5**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF PROPOSED (G+9) AND (G+4) STORIED RESIDENTIAL-CUM-COMMERCIAL WITH MULTIPLEX BUILDING AT- MOUZA – BARAMUNDA, BHUBANESWAR, DIST-KHORDHA (BUILT UP AREA – 26,812.794 SQM) OF M/S. HARASHPRIYA CONSTRUCTIONS PVT LTD. (EC).**

1. This is a proposal for Environmental Clearance of M/s. Harashpriya Constructions Pvt Ltd. for proposed proposal of (G+9) and (G+4) Storied Residential-cum-Commercial with Multiplex Building at- Mouza – Baramunda, Bhubaneswar, Dist-Khordha (Built up area – 26,812.794 sqm).
2. Residential-cum-Commercial with Multiplex Building of Sri Chetan Kumar Tekariwal GPA holder and Sri. Vaibhav Agarwal GPA holder and Harshpriya Construction Pvt. Ltd. Represented by director Sri Chetan Kumar Tekariwal over HAL PLOT NO.-1140, 1141, 1142, 1142/2350, 1143, 1146, 1147, 1138 & 1148, Mouza- Baramunda, Bhubaneswar, Dist-Khurda.
3. The proposed site is located at Baramunda, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site is: Latitude - 20° 16' 18.08" N & Longitude - 85° 48' 16.49" E. The project site is well connected with National Highway NH-16. The nearest railway station is Bhubaneswar Railway station at a distance of approx 4.1 Km in East direction. The nearest airport is Biju Patnaik Airport at a distance of approx. 2.4 Km in East direction from project site.
4. Meteorology: 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.

5. The Building Details Of The Project:

Particulars	Proposed
Plot Area	7809.200 sqm
Ground Coverage	3135.373 sqm (40.15 %)
FAR (Floor Area Ratio)	2.446
Built up Area	26812.794 sqm
Maximum Height	30 m
Road Area	2647.32 sqm
Parking Area	7711.111 sqm
Green Belt Area	1590.0 sqm (20.35 %)
Maximum No. of Floor	G+9 and G+4
Power/Electricity Requirement & Sources	CESU - 1422.0 KW Solar – 45.0 KW Total – 1467.0 KW
No. of DG sets	2x500 KVA
Water requirement & Sources	115 KLD (Fresh)
Sewage Treatment & Disposal	STP of Capacity 180 KLD
Estimated Population	2350 nos.

6. Power Requirement: The daily power requirement for the proposed complex is preliminarily assessed as 1467 KW (Solar System- 45 KW & CESU – 1422 KW). 2 nos. of DG set having 500 KVA capacities for power back up in the Commercial-cum-Residential Building Project.
7. Water Requirement: Fresh make up of 115.0 m<sup>3</sup>/day will be required for the project which will be sourced from Ground water. Waste water of 146.15 KLD will be treated in a STP of capacity 180 KLD.
8. Rain Water will be harvested through 15 no. of recharging pits.
9. Firefighting Installations: Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4).
10. Solid Waste Management: From the residential complex solid waste will be generated @ 0.4 kg/person/day, will be about 315 kg/day. Waste generated from Commercial people will be @ 0.15 kg/capita/day, which will be about 247.5 kg/day. Waste generation from floating people will be 7.0 kg/day. Solid waste shall be stored in separate garbage bin and send to approved recyclers. Around 73.1 kg/day of STP sludge will be generated.
11. The project cost is ` 70 Crores and the Environment Management Cost is `12.6 Lakhs
12. The Environment Consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** along with the proponent made a detailed presentation on the proposal before the Committee.
13. The SEAC on its meeting held on Dt: 25.09.2019 decided to take decision on the proposal after receipt of following information / documents from the proponent followed by visit of Sub-Committee of SEAC to the proposed site.
  - (i) Copy of BDA approved plan.
  - (ii) Copy of land schedule and conversion of land.
  - (iii) Khatiyani of land from Tahasildar mentioning the zone.
  - (iv) Detailed calculation of Residential Built up area and Commercial Built up area.
  - (v) Parking Area calculation apartment wise.
  - (vi) Provision for electric point at each and every parking location for e-vehicle charging etc.

- (vii) Provision for 2 separate entries and exits i.e. one for residential and other for commercial and accordingly, revised layout to be submitted.
- (viii) Traffic Density Study to be carried out by Operational Research (OR) expert and report to be submitted.
- (ix) Percentage of Green Belt in the project area.
- (x) Copy of PH Division water supply Bhubaneswar regarding supply of water to that proposed project.
- (xi) Copy of application applied to State Water Resources Deptt. for drawal of ground water and NoC from CGWA of MoWR, Govt. of India.
- (xii) Copy of BMC permission letter for discharge of treated water to municipality drain.
- (xiii) An undertaking from proponent for usage of PH Division water supply at later stage.
- (xiv) Proposal for monitoring of STP waste water periodically.
- (xv) Study of wind direction in that area.
- (xvi) Reference taken for study of traffic density.
- (xvii) Recalculation of energy consumption for each apartment with provision of Air Conditioner in each bed room and living room.
- (xviii) Proper periodically maintenance of Rain Water Harvesting System and increment of Recharging pits to 20 nos.
- (xix) Proposal to increase the percentage (5%) of usage of solar/ renewable energy.
- (xx) Copy of permission of Airport Authority of India.
- (xxi) Revised water balance for discharge of less treated water to drain.

14. The proponent has not furnished the above information / documents.

15. The Sub-Committee of SEAC conducted site visit on 23<sup>rd</sup> Oct 2019. The Sub-Committee has observed the following:

- a) The proponent has to submit a revised layout having two separate gates, one for the entrance and exit of residential owners and the other for commercial & multiplex users to avoid rush and conflict.
- b) The space between the front boundary wall & the 4 lane road belong to Govt. In case of road widening or more lanes in future, the buffer space between the complex and the road will significantly reduce and may result in severe traffic congestion.
- c) Both residential and commercial multiplex Complex and the education institution around are most likely to create traffic congestion. So decision may be taken after the traffic density study projecting into 10years future from the date of commission of the project, taking in to account the public, students, residents of the Complex.

After detailed discussion, the SEAC decided to take decision on the proposal after receipt of the information / documents / clarification on the observation made by the sub-Committee of SEAC during the visit on 23.10.2019 in addition to information / documents / compliances sought by SEAC vide letter no. 300 (3), dated 14.10.2019.

## **ITEM NO. 6**

### **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

<b>Corner</b>	<b>Latitude North</b>	<b>Longitude East</b>
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.
48. The SEAC on its meeting held on Dt: 26-07-2019 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.
  - (i) Study on effect of chromite mines to nearest human habitation which is about 1.3 km.
  - (ii) 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.
  - (iii) Repeat the estimation of Arsenic, Lead, Cadmium, Hexa chromium, Copper, Zinc, Selenium on surface water analysis and it should have absolute figures. A fresh analysis report is to be submitted.
  - (iv) Distance of sampling stations from project site should be mentioned.
  - (v) Copy of valid explosive licence.
  - (vi) Status of permission from Water Resources Department, Govt. of Odisha for drawal of Ground Water.
  - (vii) 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.
  - (viii) Detailed water balance including compensating water balance mentioning requirement.
  - (ix) Details of depth of Quarry No. 1 and 2.
  - (x) Quality of water present in Quarry 1 & 2 need to be assessed and analysis report to be submitted.
  - (xi) Copy of Annual compliance Report on CGWA to be submitted
  - (xii) Plant layout showing previous plantation and proposed plantation.
  - (xiii) List of plant species used for plantation on dump area.
  - (xiv) Traffic Density study in mines area covering neighboring mines to be carried out by Operational Research (OR) expert and report to be submitted.
  - (xv) Specific occupational health study for employees and surrounding villages.
  - (xvi) Pollution Control Measures on common haulage roads.
  - (xvii) 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.
  - (xviii) Details of Renewable energy to be used in the mines.
  - (xix) Calculation of life of Quarry Dump 1 & 2 and alternative suggested if any other than these 2 dump sites.
  - (xx) Mass Balance diagram related to treatment of hexavalent chromium and its zero discharge from the mines.
  - (xxi) Details of drainage management previously operated and proposed.
  - (xxii) Submission of complete set of listed annexures in the EMP.
  - (xxiii) Year wise details of groundwater drawn.



- (xxiv) Details of rainwater harvesting proposed in the mine and amount compensated towards water requirement.
- (xxv) Status of Forest Clearance (Stage-I) for remaining forest land.
- (xxvi) In surface water analysis Standards as per IS- 2296:1992 Class –‘C’ has been used, hence it should be upgraded to 2012 and submitted.
- (xxvii) 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.
- (xxviii) Copy of application to State Govt. to execute supplementary deed and other clearances subsequently.
- (xxix) Copy of Steel and Mines Department, Govt. of Odisha letter about mining lease and ownership of lease and its validity.
- (xxx) Copy of Wildlife Conservation Plan.
- (xxxi) Measures taken for treatment of surface runoff.
- (xxxii) Water quality of Damsala Nallah and analysis report of Damsala Nallah for last 3 months.
- (xxxiii) Analysis report of soil samples w.r.t hexavalent chromium for last 3 months.
- (xxxiv) Analysis of ground and surface water sample w.r.t hexavalent chromium for last 3 months.
- (xxxv) Copy of certified compliance report of earlier Environmental Clearance conditions issued by MoEF&CC, Regional Office, Bhubaneswar.
- (xxxvi) Copy of order of Reviewing Authority (RA) and final order if any.
- (xxxvii) Copy of MoEF&CC closure order and cancellation of ToR.
- (xxxviii) 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.
- (xxxix) Compliance to issues raised in public hearing conducted on 31st August, 2010.

49. The proponent has not yet furnished the information / documents as sought by the SEAC.

50. The Sub-Committee of SEAC conducted site visit on 16<sup>th</sup> Oct 2019 and the vital observations of the Sub-Committee are as follows:

- a) Rain water harvesting & recharging thereof to compensate the ground water being drawn to meet their domestic need was not found and missing as a condition of compliance to CGWA ‘NOC’ for the purpose

Therefore, it is mandatory for the proponent to Comply the same i.e. rain water harvesting and recharging it after due treatment since it is contaminated with hexavalent chromium.

- b) Out of two tailing ponds, the one adjacent to ETP was found not to be in good shape including its embankment and expected to have been over flowing in monsoon with danger for contamination of soil & water by hexavalent chromium.

Therefore, the Proponent is required to submit the following w.r.t tailing pond.

- (i) Tailing Pond capacity & design of its embankment.

- (ii) Embankment ingress / flow of water in to it during monsoon and non-monsoon Period and corresponding quantity of water recycled for the process during both the period, similarly, feeding of corresponding balance water to ETP in both of the periods.
  - (iii) Solid / residue of tailing pond in both the periods and SOP of disposal of the same.
  - (iv) Redesign of this tailing pond is to be submitted with its water balance.
- c) The height of the embankment of the other tailing pond (North side) was found to be low compared to south side and apprehension of overflow is not ruled out. So to arrest overflow and contamination of soil & water by hexavalent chromium, the height of embankment of north side must be increased adequately as necessary in conformity to the design.
- d) Capacity of ETP need to be indicated including quantity of treatment both during Monsoon & Non- Monsoon period and recycling of the same as process water. Thus, a complete water balance is to be submitted.
- e) Intermittent land sliding / soil erosion and gully formation across the beds of the quarry was observed on west side. So, remedial measures to prevent such land / slope sliding be submitted.
- f) Retaining wall heights were found to be low to arrest overflow of runoff water during terrestrial rain. So, the height should be increased as necessary in consultation with the relevant expert and a detailed engineering action plan be submitted.
- g) Besides all the studies sought and report asked for to the proponent, the following are felt potentially essential immediately and report be submitted before consideration of Environmental Clearance.
- (i) Quantitative estimation of Hexavalent chromium in surface water nearby nallah / river & ground water in vicinity.
  - (ii) Traffic density study in mines area covering the neighboring mines & public traffic through an operation Research Expert is reiterated and report to be submitted.
  - (iii) Hydrological study / Hydrogeological study.
  - (iv) Details of Process Technology planned for treatment of Hexavalent Chromium to make the effluent free from pollutant meeting the standards.
- h) Further, two more relevant studies in context of this sensitive site with reference to Hexavalent chromium Contamination are found necessary.
- (i) Core drilling permeability test through MECL, Nagpur or any other competent bodies.
  - (ii) Selection of Core sample study for porosity / permeability test to ascertain ground water flow & direction through competent organization.

After detailed discussion, the SEAC decided to take decision on the proposal after receipt of the information / documents / clarification on the observation made by the sub-Committee of SEAC during the visit on 16.10.2019 in addition to information / documents / compliances sought by SEAC vide letter no. 208 (3)/SEAC-Misc-28, dated 21.08.2019.

## **ITEM NO. 7**

### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR EXPANSION OF GONUA IRON & MANGANESE MINES FOR ENHANCEMENT OF PRODUCTION OF IRON ORE FROM 0.36 MTPA TO 1.2 MTPA WITH CRUSHING AND SCREENING PLANT EXTENT OVER AN AREA OF 86.886 HA OF SRI PAWAN KUMAR AHLUWALIA, LOCATED AT VILLAGE - GONUA & PATABEDA, DIST-SUNDARGARH, ODISHA OF SRI PAWAN KUMAR AHLUWALIA REGARDING UNDER VIOLATION CASE TOR GRANTED (EC)**

1. This is an expansion proposal of Gonua Iron & Manganese Mine of M/s Pawan Kumar Ahluwalia. The said Gonua Iron & Manganese Mine of M/s Pawan Kumar Ahluwalia extent over an area of 86.886 Ha, Village Gonua & Patabeda, District Sundargarh, Odisha applied for expansion of Iron ore production from 0.36 MTPA to 1.2 MTPA with Crushing & Screening plant.
2. The said mining lease is situated on the Southern and South-western flank of Satkutania Pahar in village Gonua and Patabeda, Tehsil – Koira in Sundargarh District of Odisha State. The area can be located in New Toposheet No. F45N5. It is bounded by the Latitude 21° 55' 00.52356" to 21° 55' 46.03440" N and Longitude 85° 22' 04.13616" to 85° 22' 36.35616" E.
3. As per Section 8A (6) of the MMDRA Act 2015, the lease is valid up to 31st March 2020. In this regard supplementary lease deed was executed on dated 21st March 2018.
4. EIA/EMP report was prepared on the basis of the TOR issued by MoEF&CC, Govt. of India vide letter No. J- 11015/211/2010-IA.II (M), dated 19th August 2010. Public hearing for this project was held on 04th April 2012. Final EIA/EMP with public hearing proceeding was submitted at MoEF&CC, Govt. of India on dated 9th June 2012. The project was recommended for Environmental Clearance by the Expert Appraisal Committee in its meeting held during 21st – 23rd November 2012.
5. However, as it's a violation case mentioned in the minutes of meeting, MoEF&CC, Govt. of India vide its letter dated 18th June 2013 and subsequent letter dated 17th October 2013 asked the project proponent to submit "(i) written commitment in the form of a formal resolution is submitted to MoEF&CC, Govt. of India to ensure that violations of the Environment (Protection) Act will not be repeated and (ii) the State Government has initiated credible action on the violation and evidence provided to MoEF&CC, Govt. of India of the action taken". The detail written commitment by the lessee and credible action by State Govt. was submitted at MoEF&CC, Govt. of India on dated 31st July 2013 and subsequent letter on dated 12th November 2013.
6. In the meantime, in pursuance of the Supreme Court order dated 02.08.2017 in CWP no. 114/2014, DDM, Koira has raised the demand notice for payment of `21,49,33,689/- and the Proponent has made the total payment as directed in two phases. Two payments one of ` 21,00,000,00/- and the other of ` 49,33,689/- made on 27.12.2017.
7. Subsequently, in view of the Gazette Notification of MoEF&CC, Govt. of India dated 14.03.2017 which requires that the proposal (which is in violation category) to be submitted before the MoEF&CC, Govt. of India within 6 months of the said notification. Further as per MoEF&CC, Govt. of India Office Memorandum dated 16th March 2018, the time for the application for such violation cases has been extended to another 30 days from the date of this notification. Accordingly on dtd.11.04.2018, the proponent submitted required documents at online portal of MoEF&CC, Govt. of India as violation case and requested for grant of environmental clearance at the earliest.
8. The project proponent submitted the Affidavit in compliance with the MoEF&CC, Govt. of India OM no. 3-50/2017-IA-III (Pt.) dated 30<sup>th</sup> May 2018.
9. The proposal has been appraised at SEIAA and Terms of Reference (ToR) for preparation of Environment Impact Assessment (EIA) Report has been issued with exemption of Public Hearing on dtd. 14<sup>th</sup> December 2018.
10. As per the ToR, the Baseline data collected for the Period Summer 2019 i.e. March, April and May 2019.

11. The project proponent along with the consultant **M/s ERS(I) Pvt. Ltd., Bhubaneswar** made a detailed presentation on the proposal.
12. The SEAC on its meeting held on Dt: 19-10-2019 decided to take decision on the proposal after the proponent submits certain information/ documents. The project proponent has furnished compliances as desired by the committee vide letter no: PKA/Gonua/SEAC/2019-17 dated 10.11.2019 as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Consent letter from private land owners in the mining lease area	There is no proposal for utilisation of the private land measuring 3.003 ha for mining purpose as per approved mining plan. They also undertake that they will not disturb or use the said private land exists within their mining lease for any mining activity. However, Consent letter from private land owners of the private land in the mining lease area is enclosed. <b>Enclosure -1</b>
2.	Slope study in the mining area needs to be done from government institute of repute.	They have already entrusted the job to CMRI, Govt. of India, Dhanbad, Jharkhand, for carrying out, Dhanbad, Jharkhand, for carrying out the Slope Study for their mines. Copy of Work Order is enclosed. <b>Enclosure-2</b> However, they have requested to grant EC and they undertake to submit the report at the earliest.
3.	Blast study w.r.t biodiversity around it and maintenance of bioactivity register	They have already entrusted the job to CMRI, Govt. of India, Dhanbad, Jharkhand for carrying out the vibration study w.r.t. biodiversity around their mines. Copy of Work Order is enclosed. <b>Enclosure -3</b> However, they have requested to grant EC and they undertake to submit the report at the earliest.
4.	Major steps to be taken to not disturb the perennial nala near to the mining lease area.	They undertake that, their mining activities will not disturb the perennial nala flowing at a distance of 700 mtrs to 1 kms from SW to NW at western side of our mining lease. In fact the distance from quarry pit and active OB Dump site to the said perennial nala is almost one kilometer as per field location and it will not be disturbed due to their mining activities. In addition in between the quarry and the nalla there exists a thick afforested area. So there is rare possibilities of contamination of the said perennial nala by their mining activities. Further, they have adequate runoff water management structures like check dam/ settling pond etc for collection and utilisation of runoff storm water.
5.	Status of permission from State Water Resource Deptt. for usage of ground water and NoC from CGWA.	They have obtained the NOC for drawl of ground water from CGWA in the year 2010-11 and the mine was not in operation from 2011 to 2018. They have not yet installed the Deep Bore well within their ML area for which the GW permission has been obtained. Before installation of the same, They shall obtain

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		permission from State Water Resources Department accordingly.
6.	Followings are not detailed and/or incorporated in the EIA/EMP report. Revised EIA/EMP to be submitted incorporating the same.	They have submitted the said details separately. However as per instruction now they have incorporated the same in the EIA/ EMP report and accordingly the revised EIA/EMP Report is enclosed. <b>Enclosure – 4.</b>
a)	Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.	Assessment of ecological damage with respect to air, water, land and other environmental attributes have been included in the Revised EIA/EMP Report. <b>Enclosure -4.</b> The collection and analysis of data have been done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 i.e OSPCB empanelled laboratory and the said Laboratory has been accredited by NABL. The present Certificate No is TC-7440 and date of issue 22/06/2018
b)	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.	It has been followed and accordingly the revised EIA/EMP Report is enclosed. <b>Enclosure - 4</b>
c)	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.	It has been followed and given in Chapter No. 10 and accordingly the revised EIA/EMP Report is enclosed. <b>Enclosure - 4</b>
d)	Compliance to additional specific conditions as recommended by CSIR-NEERI on carrying capacity study as per Annexure – II of ToRs issued vide letter no. 1074, dated 14.12.2018.	It has been followed and incorporated in Clause no 9.2.10 in Chapter No.9 and accordingly the revised EIA/EMP Report is enclosed. <b>Enclosure – 4.</b>

13. The SEAC observed the following:

- a) The proposal was considered by the State Level Expert Appraisal Committee (SEAC), Odisha in its meeting held on 06<sup>th</sup> December, 2018 for appraisal of the proposal for ToR in pursuance of the MoEF&CC, Govt. of India Notification dated 14th March, 2017. The SEAC, after deliberations on the proposal in terms of the provisions of the Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006

and recommended for the following:

- (i) The State Government to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no Consent to Operate to be issued till the project is granted Environmental Clearance.
  - (ii) The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of Environmental Clearance. The quantum shall be recommended by the SEAC and finalized by the regulatory authority i.e. SEIAA, Odisha. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority i.e. SEIAA, Odisha.
  - (iii) Public hearing has already been conducted for the proposal earlier on 04th April 2012, a copy of which is also furnished with EIA/EMP. For this reason, conducting a fresh Public Hearing has been exempted.
- b) EIA/EMP study report has been prepared by a NABET Accredited / NABL Accredited Consultant namely **M/s ERS(I) Pvt. Ltd., Bhubaneswar**.
  - c) Detailed assessment of Ecological Damage, Remediation Plan and Natural and Community Resource Augmentation Plan has been incorporated in Chapter - 10 of the EIA report.
  - d) An amount of ` 1.21 Crores has been estimated in the EIA / EMP report towards the cost of assessment of Environmental / Ecological damage due to violation as well as Natural and Community Resource Augmentation Plan.
  - e) There is no specific guideline issued by the MoEF&CC, Govt. of India for assessment of Environmental and Ecological Damage as well as estimation of cost for remediation plan as well as Natural and Community Resource Augmentation Plan.
  - f) In the absence of any guidelines, the cost as suggested by the proponent above to be taken into account for remediation plan as well as Natural and Community Resource Augmentation Plan. However, the proponent has to abide by the guidelines if issued by the MoEF&CC, Govt. of India in future and accordingly the proponent has to comply.
  - g) No record is available in the file about initiation of legal action against the project proponent by the State Govt./SPCB under the provisions of section 19 of the Environment (Protection) Act, 1986 for violation of the EIA Notification, 2006.

After detailed discussion, the SEAC recommended for grant of Environmental Clearance for the project with the following specific conditions in terms of the provisions of the MoEF&CC, Govt. of India notification dated 14<sup>th</sup> March, 2017 in addition to the conditions stipulated as per **Annexure – B**.

- (i) The SEAC recommended for an amount of ` 1.21 Crores towards Remediation plan and Natural and Community Resource Augmentation plan as the proponent has gone for excess production of Iron Ore without prior Environmental Clearance under EIA Notification, 2006.
- (ii) The project proponent shall be required to submit a bank guarantee of an amount of ` 1.21 Crores towards Remediation plan and Natural and Community Resource Augmentation plan with the State Pollution Control Board, Odisha prior to the grant of Environmental Clearance.

Augmentation plan with the State Pollution Control Board, Odisha prior to the grant of Environmental Clearance.

- (iii) The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC, Odisha and approval of the regulatory authority (i.e. SEIAA, Odisha).
- (iv) The SEIAA, Odisha may consider to request to the Govt. in F&E Deptt., Govt. of Odisha to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986 for violation of the EIA Notification, 2006. Environmental Clearance is to be issued after initiation of legal action against the project proponent.
- (v) The proponent has to abide by the guidelines if issued by the MoEF&CC, Govt. of India in future for assessment of Environmental and Ecological Damage as well as estimation of cost for remediation plan as well as Natural and Community Resource Augmentation Plan.



SRI B.P. SINGH  
CHAIRMAN, SEAC



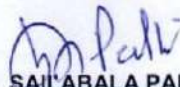
PROF.(DR.) B.K. SATPATHY  
MEMBER, SEAC



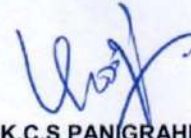
DR. D. SWAIN  
MEMBER, SEAC



SRI. J. K. MOHAPATRA  
MEMBER, SEAC

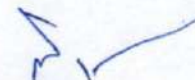


DR. SAILABALA PADHI  
MEMBER, SEAC



DR. K.C.S PANIGRAHI  
MEMBER, SEAC

APPROVED



CHAIRMAN, SEAC

**CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR PIPALPADAR GEM STONE DEPOSIT (CAT'S EYE) OVER AN AREA OF 17.122 HECTARES IN VILLAGE PIPALPADAR & SIRJAPALLI, TALUKA-KESINGA, DIST-KALAHANDI OF M/S SANJUKTA GEMS, SHIV KUMAR BANSAL**

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**A. Specific conditions**

1. The Project Proponent shall obtain consent from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.
2. Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities.
3. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
4. Project Proponent shall ensure the safeguard and wellbeing of villagers and school, regular health monitoring of all residents in the area and the compliance Report shall be submitted to the Regional office of the Ministry and SEIAA, Odisha.

**B. Standard conditions**

1. A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA, Odisha 5 years in advance of final mine closure for approval.
2. No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.
3. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.
4. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
5. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.
6. Mining shall be carried out as per the provisions outlined in the approved mining plan as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).
7. Protection of vegetation in the surrounding areas, and proper storage of solid waste, subgrade ore and their use have to be given priority during mining operation.
8. Digital processing of the entire lease area using remote sensing technique shall be carried



out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office and SEIAA, Odisha.

9. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub> such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.
10. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.
11. Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
12. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
13. Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
14. There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.
15. The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.
16. The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters

**Secretary, SEAC**

and allows only species adopted to that micro climate.

17. The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
18. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.
19. Plantation shall be raised in a 7.5 m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.
20. The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.
21. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.
22. As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighborhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to

**Secretary, SEAC**

- door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
23. 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.
  24. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
  25. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
  26. The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
  27. The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.
  28. A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.
  29. State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
  30. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at [www.environmentclearance.nic.in](http://www.environmentclearance.nic.in) and a copy of the same should be forwarded to the Regional Office.
  31. The SEIAA, Odisha may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
  32. Any appeal against this clearance 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.
  33. The above mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

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**CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR EXPANSION OF GONUA IRON & MANGANESE MINES FOR ENHANCEMENT OF PRODUCTION OF IRON ORE FROM 0.36 MTPA TO 1.2 MTPA WITH CRUSHING AND SCREENING PLANT EXTENT OVER AN AREA OF 86.886 HA OF SRI PAWAN KUMAR AHLUWALIA, LOCATED AT VILLAGE - GONUA & PATABEDA, DIST-SUNDARGARH, ODISHA OF SRI PAWAN KUMAR AHLUWALIA REGARDING UNDER VIOLATION CASE TOR GRANTED (EC).**

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**A. Specific conditions**

1. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Odisha, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2. This Environmental Clearance will not be operational till such time the Project proponent complies with all the statutory requirements and Judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors applicable to this project.
3. The Department of Mines and Geology, Government of Odisha shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
4. The proponent shall comply all the specific conditions as recommended by CSIR-NEERI on carrying capacity study (as applicable) in time bound manner as proposed.
5. The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.
6. The Project Proponent shall carryout sustainable and scientific mining in conformity with the approved mining plan and accordingly, strict monitoring shall be carried out by the Regional Office, MoEF&CC, Govt. of India, Bhubaneswar, Odisha State Pollution Control Board and Department of Mines and Steel, Government of Odisha.
7. The Project Proponent shall carryout monitoring of air quality parameters covered under NAAQS notification, 2009 and Fugitive dust emission monitoring as per the action plan submitted to the Ministry. The frequency of monitoring shall be governed by MoEF&CC, Govt. of India circular dated 27.05.2009 and Consent to Operate issued by Odisha State Pollution Control Board for ambient air and fugitive dust emission respectively.
8. No mining activities will be allowed in forest area for which the Forest Clearance is not available.
9. The Environmental Clearance is subject to obtaining requisite NBWL Clearance, if any, from the Standing Committee of National Board for Wildlife for Mining project.
10. Project Proponent should plant only native species for green belt development. Plantation of local species should be carried out during the Monsoon Season.

11. The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.
12. Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA/MoEF&CC. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.
13. The project should also implement community Development and Welfare programme in the area of Health, Education and Environmental Protection.
14. Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.
15. Project Proponent shall run an awareness campaign on sanitation for women and utilization of Sanitary Napkin and also to distribute the Sanitary Napkin/pads to the women and provide the training for proper disposal.
16. The Regular monitoring of ground water table to be carried out by establishing a network of existing wells and constructing new piezometers. The reports shall be submitted at interval of six months to the Regional Office of the MoEF&CC, Govt. of India, Bhubaneswar and Odisha State Pollution Control Board.
17. The water balance/ water auditing shall be carried out and measures for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC, Govt. of India, Bhubaneswar and Odisha State Pollution Control Board.
18. The Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the at interval of six months to the Regional Office of the MoEF&CC, Govt. of India, Bhubaneswar and Odisha State Pollution Control Board.
19. The Plantation/Green belt at the periphery of the water body, particularly on eastern and western boundaries, shall be maintained in the mined out area in order to reduce the loss of surface water.

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## **B. General conditions**

1. A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India as well as SEIAA, Odisha 3 years in advance of final mine closure for approval.
2. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.
3. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
4. The project proponent shall obtain necessary prior permission of the competent authority for drawl of requisite quantity of water (surface water and ground water) for the project.
5. Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM) as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).
6. The project proponent shall carry out scientific investigation in respect of Blast induced ground vibration, fly rock & air blast. Based on this study, Project Proponent should design an effective blast design to curb blast induced menace and public annoyance. The Report shall be submitted to the SEIAA, Odisha as well as the Regional Office of the Ministry.
7. The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned (and owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.
8. Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to the SEIAA, Odisha as well as to the Ministry of Environment, Forest and Climate Change and its Regional Office.
9. The critical parameters of ambient air quality as per the Notification 2009 such as PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> and SO<sub>2</sub> etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
10. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub> such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.

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11. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to the SEIAA, Odisha as well as Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.
12. Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.
13. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the SEIAA, Odisha as well as Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
14. Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
15. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
16. Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt-conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.
17. Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to

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the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.

18. There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.
19. The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.
20. The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.
21. The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
22. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.
23. Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.

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24. Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area", if any, applicable to the project.
25. The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.
26. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.
27. Project proponent has to complied the Corporate environment Responsibility(CER) as per the provisions mentioned in the OM of Ministry no 22-65/2017.IA-III dated 1st May, 2018 based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office located at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.
28. 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.
29. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
30. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.
31. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
32. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
33. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.

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34. The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
35. The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.
36. 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.
37. A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.
38. State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
39. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at [www.environmentclearance.nic.in](http://www.environmentclearance.nic.in) and a copy of the same should be forwarded to the Regional Office.
40. The SEIAA, Odisha or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
41. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
42. The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Odisha and any other Court of Law relating to the subject matter.
43. Any appeal against this environmental clearance 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.

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