



सत्यमेव जयते

File No.: 462922/05-MIN/02-2024

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority (SEIAA),  
ODISHA)

\*\*\*



Dated 12/03/2024



To,

Sri Hirak Mazumder  
RUNGTA SONS PRIVATE LIMITED  
Rungta Office, Main Road, Barbil, Dist: Keonjhar , Kolkata, KOLKATA, WEST BENGAL, , 700017  
rspl.forest@gmail.com

**Subject:** Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

**Sir/Madam,**

This is in reference to your application submitted to SEIAA vide proposal number SIA/OR/MIN/462922/2024 dated 15/02/2024 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B0000OR5555408N
(ii) File No.	462922/05-MIN/02-2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals Environment Clearance for Enhancement in production of Iron ore from 16.50 million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) to total excavation 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over an area of 147.10 ha. located in villages Sanindpur & Oraghat in Sundergarh district of Odisha
(vii) Name of Project	SUNDARGARH, ODISHA
(ix) Location of Project (District, State)	SUNDARGARH, ODISHA
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	No





**SEIAA File No. 462922/05-MIN/02-2024**

**Subject: Application of M/s Rungta Sons Pvt. Ltd. for Mining of Iron Ore from Sanindpur Iron and Bauxite mines for enhancement in production of Iron ore from 16.50 million TPA with total handling of 19.30 Million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) to total handling of 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over a ML area of 147.10 Ha. located in villages-Sanindpur & Oraghat, District-Sundargarh-Environmental Clearance reg.**

Sir/Madam,

This has reference to your online proposal No. SIA/OR/MIN/462922/2024 dated 15.02.2024, submitted to SEIAA, Odisha for grant of Environmental Clearance(EC) for mining of iron ore from Sanindpur Iron and Bauxite mines for enhancement in production of Iron ore from 16.50 million TPA with total handling of 19.30 Million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) to total handling of 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over a ML area of 147.10 Ha. located in villages-Sanindpur & Oraghat, District- Sundargarh by M/s Rungta Sons Pvt. Ltd. filed by Sri Hirak Mazumder, Director in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act,1986 and subsequent amendments thereto.

**2. Proposal in Brief:**

Proposal No.	SIA/OR/MIN/462922/2024
Date of application	15.02.2024
File No.	462922/05-MIN/02-2024
Project Type	EC (expansion)
Category	B1
Project/Activity including Schedule No.	1(a) Mining of Minerals-Non-Coal Mining
Name of the Project	Proposal of M/s Rungta Sons Pvt. Ltd. for Environmental Clearance of Sanindpur Iron and Bauxite mines for enhancement

*Dy*



	in production of Iron ore from 16.50 million TPA with total handling of 19.30 Million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) to total handling of 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over a ML area of 147.10 Ha. located in villages-Sanindpur & Oraghat, District-Sundargarh under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11 <sup>th</sup> April 2022
Name of the company/Organization	Applicant: M/s. Rungta Sons Pvt. Ltd. Sri Hirak Mazumder, Director
Location of Project	villages Sanindpur & Oraghat, Tehsil-Koira, District-Sundargarh
ToR	Standard ToR

3. **Project Details:** The highlights of the proposal as ascertained from the application as submitted by PP and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
- This proposal of M/s. Rungta Sons Pvt. Ltd. for Environmental Clearance of Sanindpur Iron and Bauxite mines for enhancement in production of Iron ore from 16.50 million TPA with total handling of 19.30 Million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) to total handling of 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over a ML area of 147.10 Ha. located in villages-Sanindpur & Oraghat, District- Sundargarh submitted under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11<sup>th</sup> April 2022 filed by Sri Hirak Mazumder, Director.
  - Mining Lease Area Details: Total mining lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha is non-forest land. The Stage-II forest clearance has been obtained in three phases;

DB



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**  
SRF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com  
statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment  
(Protection) Act, 1986

- In first phase, 52.742 Ha forest land has been granted FC vide letter No. 8-135/2003-Fe dated 19.06.2006.
  - In second phase, 15.393 ha forest land has been granted FC vide letter No. 8-135/ 2003-FC (vol.) dated 24.10.2013.
  - In the 3rd phase, the balance 58.189 ha forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (Vol. I) dated 26.11.2020.
- (iii) The mining lease was granted in favour of the lessee and executed for 20 years w.e.f. 06/09/1985 to 05/09/2005. In pursuance to section 8-A (6) of MMDR Amendment Act, 2015, the mining lease period has been extended up to 05.09.2035 by execution of a Supplementary Lease Deed on 14.07.2016, over an area of 147.100 Ha.
- (iv) Approval of modification of review of Mining Plan with progressive mine closure plan for the proposed production has been approved by the Indian Bureau of Mines vide letter no. MCDR-MiFL0FE/45/2023-BBS-IBM-RO-BBS dated 14.02.2024.
- (v) Environmental Clearance has been granted to the existing project by MoEF&CC vide letter No. J-11015/107/2018-IA. II (M) dated 11.09. 2019 for production of 8.06 million tonnes of Iron ore which includes 7.0 million tonnes of ROM Iron ore from mines excavation & 1.06 million tonnes of low-grade Iron ore/mineral reject from old dumps including wet beneficiation plant of throughput capacity of 1.44 MTPA granted earlier.
- (vi) Environmental Clearance has been granted to the existing project by SEIAA vide letter No. letter No. EC23B001OR130718, File No. 439726/770-MINB1/09-2023 dated 27.10.2023 for Total Handling of 19.3 MTPA [(production of 16.50 million TPA (15.0 million TPA ROM +dry crushing and screening of low-grade ore from old stacks & dumps of 1.50 million TPA) + 2.8 MTPA waste] including wet beneficiation plant of throughput capacity of 1.44 MTPA granted earlier. The Present consent to operate was granted on 02.11.2023 and is valid up to 31.03.2025.
- (vii) Surface water withdrawal permission for 1178 KLD has been renewed on 16.08.2023 which is valid up to 18.02.2026 allocation for 1087 KLD of surface water has been approved. The balance water requirement will be met from rain water collected in the mine pit. The PP has already received NOC from Central Ground Water Authority for withdrawal of 250 KLD ground water which is valid up to 17.03.2025.

DH



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986)

- (viii) Project details: The PP has submitted that the proposed expansion will be carried out in two phases of increase of 19.5% in each phase. Thus, the expansion in 1<sup>st</sup> phase (19.5% increase) will be total handling of 23.0635 MTPA [(ROM: 17.925 MTPA + low grade ore from old stack/dump: 1.7925 MTPA) + Waste: 3.346 MTPA] and thereafter in 2<sup>nd</sup> phase the expansion in total handling will be 26.827 MTPA (ROM + low grade ore from old stack/dump: 22.935 + waste: 3.892 MTPA) under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11<sup>th</sup> April 2022.

Particulars	Status
Terms of Reference	Standard TOR conditions stipulated for Non-Coal Mining Projects (as per OM dated 30/05/2022)
Baseline Env. Monitoring studies	Conducted during March to May 2021 representing Summer season in the study area comprise of 10 Km zone around ML and one month revalidation of baseline data was conducted on December 2023.
Env. Public Hearing	Exempted vide O.M dated 11/4/2022. Project has gone through Public Hearing process at the time of obtaining EC under EIA Notification 2006.
Requirement of additional land	NIL (No additional land acquisition / increase in M.L area is involved). Expansion is proposed in existing ML area of 147.10 Ha.

- (ix) Eligibility of the Project under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11<sup>th</sup> April 2022:
- (x) The MoEF&CC, Govt. of India vide Office Memorandum (O.M.) no. F. No. IA3-22/10/2022-IA.III [E177258] dated 11/4/2022 has issued guidelines for granting Environmental clearance under para 7(ii)(a) of EIA Notification 2006 for expansion upto 50%, within the existing premises / mining lease area, without additional land acquisition and Environmental Public Hearing. The compliance of the O.M. dated 11.04.2022 is as below:

DAJ



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**  
5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com  
statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment  
(Protection) Act, 1986

S. No.	Particular	Status
1.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	The Public Hearing was held on 9/11/2021 at 1.30 PM at open ground near Hanuman Temple at Oraghat Village, under Koira block of Sundargarh District for existing Environmental clearance (attached as Annexure-1(C)) for total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump) +2.8 Million TPA waste) in the mine lease area of 147.10 Ha. Latest compliance status of the issues raised during last public hearing held on 9th November, 2021 is given under Section 6.5 of Chapter-6 of EIA report.
2.	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion.	There is no change in the category of project i.e. "B1".
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-a.-vis the area mentioned in the EC, based on which public hearing has been held earlier.	<p>There is no additional land acquisition/ increase in M.L area/forest land diversion is involved in proposed expansion. Expansion is proposed in existing ML area of 147.10 Ha.</p> <p>Total lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha is non-forest land.</p> <p>The Stage-II forest clearance has been obtained in three phases (attached as Annexure-1(G) of EIA report);</p> <p>In first phase, 52.742 Ha. forest land has been granted FC vide letter No.8-135/2003-Fe dated 19.06.2006.</p> <p>In second phase, 15.393 ha forest land has been</p>

DH



S. No.	Particular	Status																									
		<p>granted FC vide letter No.8-135/ 2003-FC (vol.) dated 24.10.2013.</p> <p>In the 3rd phase, the balance 58.189 ha forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (VOL. I) dated 26.11.2020</p>																									
4.	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	<p>The proposed expansion is of 39% only (Phase-I: 19.5% &amp; Phase-II:19.5%).</p> <table border="1"> <thead> <tr> <th></th> <th>Existing (MTP A)</th> <th>Phase-I (19.5%) (MTP A)</th> <th>Phase-II (19.5%) (MTP A)</th> <th>Total (MTP A)</th> </tr> </thead> <tbody> <tr> <td>Total Material Handling</td> <td>19.30</td> <td>3.764</td> <td>3.763</td> <td>26.827</td> </tr> <tr> <td>Total ROM</td> <td>15.00</td> <td>2.925</td> <td>2.925</td> <td>20.850</td> </tr> <tr> <td>Low Grade from Dump &amp; Old Stacks</td> <td>1.50</td> <td>0.293</td> <td>0.292</td> <td>2.085</td> </tr> <tr> <td>Waste Handling</td> <td>2.80</td> <td>0.546</td> <td>0.546</td> <td>3.892</td> </tr> </tbody> </table>		Existing (MTP A)	Phase-I (19.5%) (MTP A)	Phase-II (19.5%) (MTP A)	Total (MTP A)	Total Material Handling	19.30	3.764	3.763	26.827	Total ROM	15.00	2.925	2.925	20.850	Low Grade from Dump & Old Stacks	1.50	0.293	0.292	2.085	Waste Handling	2.80	0.546	0.546	3.892
	Existing (MTP A)	Phase-I (19.5%) (MTP A)	Phase-II (19.5%) (MTP A)	Total (MTP A)																							
Total Material Handling	19.30	3.764	3.763	26.827																							
Total ROM	15.00	2.925	2.925	20.850																							
Low Grade from Dump & Old Stacks	1.50	0.293	0.292	2.085																							
Waste Handling	2.80	0.546	0.546	3.892																							
5.	Predicted environmental quality parameters arising out of proposed expansion/modernizati	It is an existing project having well defined EMP in place. The predicted environmental quality parameters for 39% expansion are of within the prescribed standards (discussed under Section 4.5 of Chapter-4) of EIA report and will be																									

DM



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

S. No.	Particular	Status
	on shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	maintained well within the prescribed standards.
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	There will be no reduction in greenbelt and will remain same.
7.	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB,	The certified compliance report has been obtained vide File No.101-1054 dated 27.02.2024 (attached as Annexure-1(I)). Latest compliance status of the issues raised during last public hearing held on 9th November, 2021 is given under Section 6.5 of Chapter-6 of EIA report.

24



S. No.	Particular	Status
	which should not be more than one year old at the time of submission of application.	
8.	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	The proposed expansion is up to 39%. Hence as per provision of O.M. dated 11.04.2022, Public Consultation is not applicable.
9.	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	There is no effluent generation in the mine since there is no process waste water and no vehicle maintenance workshop is present. However, storm water generated rainy season is collected in in different water storage structures made at strategic point of the mine. Three Continuous Ambient Air Quality monitoring system has been installed in core and buffer zone.

- (xi) Location and connectivity: The proposed project is located in villages Sanindpur & Oraghat, Tehsil- Koida, District-Sundargarh, State- Odisha of M/s Rungta Sons Pvt. Ltd bearing Toposheet no: 73G/5. Nearby villages are Sanidipur and Oraghat which are located at a distance of 2Km and 1 km respectively from the Lease area. The nearest railhead is at Barsuan of S.E. Railways and is 27 km away. Barbil is nearest railway station at distance of 33 KM. Airport under operation near the area are Bhubaneswar-300 km, Ranchi-220 km & Jamshedpur-172 km. Nearest river is Suna nadi which is 500m away and a power transmission passing through the eastern boundary of lease area. Distance of SH/NH road is 8km away which is

94



NH-520. There are some major reserve forests such as Mendhamaruni, Siddhmath, Khesra, Kathmal, Karo, Patmunda, Kajhurdihi and Lakhraghat within the 10 km area from the lease boundary.

- (xii) **Method of Mining:** The Proposed mining operation will be mechanized opencast, and the maximum total handling will be 26.827 MTPA [(ROM: 20.85 MTPA + 2.085 million tonne from dry crushing & screening of old dumps/low grade stacks) + 3.892 MTPA waste]. However, in the 1st phase, the expansion capacity will be for total handling of 23.0635 MTPA [(ROM: 17.925 MTPA + low grade ore from old stack/dump: 1.7925 MTPA) + Waste: 3.346 MTPA]. The bench height and width will be up to 9m and 20m for C-top Iron quarry. During the proposed mining operation, the maximum waste generation per year will be 3.346 million tonne. The conventional opencast mining is adopted with deep hole drilling & blasting with 110 mm dia. wagon drill, excavation by excavator & dumper combination of capacity 3.2 m<sup>3</sup>, 3.9 m<sup>3</sup>, 4.3 m<sup>3</sup> and 60 MT. Loader of capacity 2.1m<sup>3</sup> are used for loading purposes. Both ore & OB/waste will be transported by dumpers of average capacity up to 40MT. Ore will be dispatched to nearby railway siding by 35 MT dumpers. Sometimes, ore will be transported to buyer's destination by truck also.
- (xiii) **Drilling/blasting details:** Drilling will be done by deep hole drilling with 110 mm diameter drilling machine with bit size 110 mm which can drill 35000 m/year on an average. The maximum depth of drill holes will be 10 m including one meter subgrade mineral reject drilling. It is an old mine, blasting requirement is very less, is done as and when required by external agency. However, no explosive storage is present within the mine.
- (xiv) **Crusher & screening details:** In the process of expansion additional 4x300 TPH Mobile screening plant will be required including the existing plants.
- (xv) **Dump management:** In the mines there are 3 dumps (Dump B, D & E) Dump-B is a stabilized dump and progressive removal of this dump is under process whereas Dump D & E are active dumps. All dumps are surrounded by retaining wall & garland drain followed the settling pond. The inactive dump slopes are covered by plantation & coir matting. During proposed plan period dump B will be rehandled through screening/Crushing. Dump-D & Dump-E are active dumps. In the mine Dump-D and Dump-E are as waste dumps, occupying an area of 6.62 Ha and 3.6 Ha respectively. In dump D the quantity of waste materials- 4379288m<sup>3</sup> up to Nov-2023 and in Dump-E contains total 263674 m<sup>3</sup> waste at present. In the plan

DM



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

period it is proposed to dump another 449980m<sup>3</sup> waste material in Dump-E in 5.58 ha area. In the year 2024-25, backfilling will be done in B1, over an area of 5.70 ha. Total 1450800m<sup>3</sup> waste will be backfilled in Backfilling area B1. In the mine, dump-B is present as mineral reject dump, occupying an area of 8.64 ha. At present 4.53 million tonnes of low-grade iron ore/Mineral reject in present in this mineral reject Dump-B are used as Dump working material.

Existing dump management.

Item	Dump-B	Dump D	Dump E
Retaining wall	803m	1160	360
Garland drain	815m	1170	370
Settling pond	1No.	1 No. 3600 cum	1no. 900 cum

Sl. No.	Year	Name of the dump	Volume of dump (m <sup>3</sup> )	Total dump quantity (t)	Grade of mineral reject
1	2023-24 (upto 30.11.23)	Dump- B	2267070.50m <sup>3</sup> / 4534141 MT	221503m <sup>3</sup> / 443006 MT	+45%
2	2024-25	Dump-B	2045567.50m <sup>3</sup> / 4091135.00 MT	1042500 m <sup>3</sup> / 2085000 MT	+45%

- (xvi) Water requirement: Total water requirement will be 3319 KLD out of which 3069 KLD of surface water and 250 m<sup>3</sup>/day of ground water. NOC from Central Ground Water Authority, Ministry of Water resources, River Development and Ganga Rejuvenation, Govt. of India for withdrawal of 250 KLD of ground water has already been received vide NOC No.: CGWA/NOC/MIN/REN/2/2023/8638 dated 29.11.2023 which is valid up to 17/03/2025. Surface water allocation of 1178 KLD has been obtained and additional 1087 KLD has been approved. Balance water requirement will be met from rain water collected in the mine pit.
- (xvii) Power requirement: The electricity is supplied to the project by WESCO through 8 nos. transformers of total capacity 18815 kVA. For wet beneficiation plant already granted EC, 01 transformer with total capacity of 5MW is already

DM



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

SRF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

installed. 3 nos. of generator of capacity 1320 KVA are available. There is additional requirement of 3 generators of capacity varying from 140 to 500 kVA (140 kVA, 320 kVA and 500 kVA). Solar-power support system of 338.9 KW in the mine office and camp area is under operation. Present requirement of H.S.D is 2590426 Liters/year. For the envisaged increase in production total H.S.D. requirement will be around 3600692 Liters/year.

- (xviii) Greenbelt: There is 4.32 ha of green belt in the mine. 8640 nos. of saplings have been planted excluding causality replacement. In the life of the mine, yearly causality replacement will be done. At the Conceptual period a total of 140.1 ha (out of 147.10 ha) shall be covered under plantation. The tree planted are with species like Teak, Chakunda, Karanja, Mango, Acacia, Simarouba, Neem, Sisoo, etc.

Total plantation proposed during the period 2023-24 to 2024-25			
Year	Proposed Nos. of Saplings	Location of plantation	Area covered (ha)
Proposed Plantation			
2023-24	10000	DUMP-D (Dump slope area with casual replacement as required)	3.0
2024-25	10000	DUMP-D (Dump slope area with casual replacement as required)	3.0
Total	20000		6.0

Details of Proposed Afforestation till Life of the Mine			
Category	Area (ha)	*No of Saplings @1600 per hect.	Total Expenditure (Rs.) @ Rs. 150/ plant (Projected base rate 2020-21 @ Rs. 100/ plant with an escalation of 50% i.e., Rs. 150/plant including 5 years

DU



			maintenance)
Mining	117.7	294175	4412625
Waste Dump	16.52	26432	3964800
Area utilized for Mineral Storage	1.58	2528	265440
Green belt	4.32	6912	1036800
Total	140.1	330047	96,79,665

- (xix) Manpower requirement: At present 864 nos. of people are directly employed & 600 nos. of persons are indirectly employed. After proposed production enhancement the direct employment potential will be 1162 and indirect employment potential will be 800 no. of person.
- (xx) CSR Cost: Expenditure made from 01.04.2014 to 31.03.2023 is Rs.2,08,95,47,339/- and the proposed expenditure for the year 2023-24 & 2024-25 are Rs.1,91,07,000/- & Rs.81,97,000/- respectively.
- (xxi) Project Cost: Total project cost is approx. 400 Crore rupees. Capital cost already made on Environment: Rs. 4965.03 lakhs. Capital cost to be made on Environment: Rs. 262 lakhs. Proposed recurring cost to be made on Environment per year from 2023-24 to lease period: Rs. 2084.74 lacs.
- (xxii) Environment Consultant: The Environment consultant M/s Ecomen Laboratories Pvt. Ltd., Lucknow along with the proponent made a presentation on the proposal before the Committee on 28.02.2024.
- (xxiii) The proponent has also furnished compliance to NEERI recommendations as part of standard ToRs and also certified compliance report to conditions stipulated in earlier Environmental Clearance in EIA report. They have furnished through mail revised EIA/EMP report along with queries and clarifications raised by the SEAC during presentation.
4. The SEAC have appraised the proposal for EC in its meeting dated 28.02.2024 and have recommended for grant of Environmental Clearance only for 19.5% increase in Iron Ore production capacity i.e. from **16.5 MTPA** (Total material handling of 19.30 MTPA : 15 MTPA ROM Iron Ore + 1.50 MTPA low grade from Dump and

Dee



- Old stacks + 2.80 MTPA waste handling) to **19.7 MTPA** (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) in **Phase - I** under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11<sup>th</sup> April 2022 with stipulated conditions and specific conditions. Further, the SEAC has recommended that after successful compliance to Phase - I, rest 19.5% increase in Iron Ore production capacity in Phase - II i.e. from 19.7 MTPA (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) to 22.9 MTPA (Total material handling of 26.827 MTPA : 20.850 MTPA ROM Iron Ore + 2.085 MTPA low grade from Dump and Old stacks + 3.892 MTPA waste handling) will be considered under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11<sup>th</sup> April 2022.
5. This proposal conforms to the item no. 1(a)-'Mining of Minerals in the schedule of EIA Notification, 2006 as amended time to time, and the major mineral extraction project falls under Category B1 as the mining lease area is  $\leq 250$ Ha.
  6. The matter was again examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 160<sup>th</sup> meeting held on 12.03.2024, recommendation of SEAC and in accordance with the EIA Notification, 2006 and further amendments thereto. After detailed deliberation in the matter, the authority decided to allow expansion of production capacity of iron ore from 16.5MTPA to 19.7MTPA until further Order along with the additional stipulation recommended by SEAC in its meeting held on 28.02.2024. Further, the Authority reiterated that the PP must take all possible steps to comply with the NEERI -SOTM guidelines as stipulated in the EC within the next 5 years i.e. 26.10.2028.
  7. **Environmental Clearance (EC) is granted under the provisions of EIA Notification No. S.O. 1533 (E) dated the 14<sup>th</sup> September, 2006 of the Government of India in the erstwhile Ministry of Environment and Forests, as amended from time to time only for 19.5% increase in Iron Ore production capacity i.e. from 16.5 MTPA (Total material handling of 19.30 MTPA : 15 MTPA ROM Iron Ore + 1.50 MTPA low grade from Dump and Old stacks + 2.80 MTPA waste handling) to 19.7 MTPA (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) including wet beneficiation plant of 1.44 million TPA throughput capacity granted earlier in Phase-I under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11<sup>th</sup> April 2022 of M/s. Rungta Sons Pvt. Ltd.' with the following stipulations (specific and standard), environmental conditions and safeguards.**

DA



**Stipulations:**

**A. Specific conditions:**

- (i) Environmental Clearance is granted only for 19.5% increase in Iron Ore production capacity i.e. from **16.5 MTPA** (Total material handling of 19.30 MTPA : 15 MTPA ROM Iron Ore + 1.50 MTPA low grade from Dump and Old stacks + 2.80 MTPA waste handling) to **19.7 MTPA** (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) in **Phase-I** under 7(ii) (a) of EIA notification 2006 as per MoEF & CC, Govt. of India OM dated 11<sup>th</sup> April 2022 until further Order.
- (ii) The project proponent must take all possible steps to comply with the NEERI - SOTM guidelines as stipulated in the EC within the next 5 years i.e. by 26.10.2028.
- (iii) The project proponent needs to preserve or utilize the ore and fine's containing Fe between 35-45%, following IBM guidelines.
- (iv) The project proponent shall maintain adequate greenbelt in the lease area.
- (v) OB dump sites shall be managed properly as proposed.
- (vi) The additional fines generated due to proposed enhancement shall be managed properly.
- (vii) Proper Air Pollution Control measures shall be provided to control dust emission and local dust generation. Dust suppression system shall be provided in the mobile crushing and screening plant to control dust emission.
- (viii) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- (ix) Traffic management shall be done as per recommendation of Traffic Management Study Report duly vetted by institute of repute.
- (x) As a part of six-monthly compliance, the PP shall submit the status of Tailing Pond and its annual make-up to ascertain its capacity to take care of expansion in production including mineralogical & chemical analysis of excavated ore, dump materials and rejects. Also, actual layout after expansion may be submitted as a part of six-monthly compliance to the SEIAA, Odisha and Regional Office, MoEF&CC, Govt. of India, Bhubaneswar.
- (xi) Adequate measures shall be adopted for management of noise, vibration and fly rocks.

34



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**  
5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com  
statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment  
(Protection) Act, 1986

- (xii) Bench and dump slopes are to be designed based on scientific studies by subject experts from Institute of repute and maintained so that their failure is avoided.
- (xiii) The PP shall ensure proper surface runoff management and adopt adequate water conservation measures to augment the water resources of the area.
- (xiv) The PP shall keep adequate space for storing and managing dump and tailing as brought out in the revised EIA report. All sub-grades shall be staked for future use based on their potential (Fe content).
- (xv) The PP shall comply all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes.
- (xvi) The EMP shall be implemented in a time bound manner with a budget allocation of Rs. 4965.03 lakhs as capital cost and Rs. 262Lakhs/year as recurring cost. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office as a part of six-monthly compliance report.
- (xvii) The proponent shall comply all the specific conditions as recommended by CSIR-NEERI on carrying capacity study (as applicable) & other specific conditions in time bound manner as applicable for the project.

**B. Standard Conditions -**

**I. Statutory compliance:**

- (i) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- (ii) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- (iii) The State Government concerned shall ensure that mining operation shall not be commenced 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 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- (iv) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project,
- (v) This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, as applicable to the project.
- (vi) Project Proponent (PP) shall obtain Consent to Operate after grant of EC and

DH



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

- effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board.
- (vii) The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- (viii) The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made thereunder in respect of lands which are not owned by it.
- (ix) The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IA. II (M), dated 29<sup>th</sup> 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".
- (x) The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of groundwater for the project.
- (xi) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- (xii) State Pollution Control Board shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/Tahasildar's Office for 30 days.
- (xiii) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.
- (xiv) The Project Proponent shall inform the MoEF&CC/SEIAA, Odisha for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
- (I) Air quality monitoring and preservation**
- (i) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind

NA



direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main gate of the mine site.

- (ii) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM<sub>10</sub> and PM<sub>2.5</sub> are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ah sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

**(II) Water quality monitoring and preservation**

- (i) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and SEIAA, Odisha is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- (ii) 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 well located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (iii) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of

DA



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

- existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (iv) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria on designated base use and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of SEIAA, Odisha. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data be sent regularly to the Integrated Regional Office, Bhubaneswar of MoEF&CC,GoI, SEIAA, Odisha, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- (v) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1 /2006-IA. II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- (vi) The project proponent shall construct retaining wall and settling pond within the lease area. Further, check dams shall be constructed at strategic locations in which rain water passes in rainy season. Finally, the excess supernatant after sedimentation shall be allowed to spill away through stone pitch structure to the nearby valley.
- (vii) De-silting of agricultural lands in buffer zone and beyond including nearby Nalas/rivers perennially periodically and perpetually caused due to wash up of

DN



minerals/OB/dumps shall be done as per SOP submitted. Retaining wall shall be constructed to ensure that no silt after wash up is escaped from the core / buffer zone of the mines.

- (viii) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Integrated Regional Office, MoEF&CC as a part of compliance in the six-monthly compliance report.
- (ix) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated in an ETP as proposed so as to conform to the notified standards prescribed from time to time, as applicable. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- (x) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF & CC and State Pollution Control Board.
- (xi) The PP shall comply with all conditions as specified by CGWB/ Water Resources Department, Govt. of Odisha for abstraction of ground water for the project.
- (xii) The PP shall install one piezometer for ground water level monitoring and water level data shall be made available to CGWA through web portal as a part of six-monthly compliance report.
- (xiii) All industries abstracting ground water in excess of 100 KLD shall be required to undertake biennial (once in two years) water audit through certified auditors of agencies as approved by CGWA and submit audit reports to CGWA.

**(III) Noise and vibration monitoring and prevention**

- (i) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- (ii) 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 /night hours.
- (iii) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The worker engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along

DH



with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

**(IV) Mining Plan**

- (i) The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of competent authority which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- (ii) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- (iii) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the concerned Integrated Regional Office, Bhubaneswar of MoEF&CC,GoI.

**(V) Land reclamation**

- (i) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- (ii) The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved

24



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

SRF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.

- (iii) The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- (iv) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
- (v) The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF & CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha.
- (vi) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil / OB / waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- (vii) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the comers of the garland drains.
- (viii) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.
- (ix) The mining lease holders shall, after ceasing mining operations, undertake re-

SH



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

**(VI) Transportation**

- (i) No Transportation of the minerals shall be allowed in case of roads passing through transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- (ii) The Main haulage road within the mine lease should be provided with a permanent water arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.
- (iii) Traffic management shall be done as per recommendation of Traffic Management Study Report.
- (iv) The Project Proponent shall provide parking plaza for the heavy vehicles within the lease area as per recommendation of NEERI, as applicable to the project.

**(VII) Green Belt**

- (i) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- (ii) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State

24



Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

- (iii) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- (iv) The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

**(VIII) Human health issues, Public hearing & CER**

- (i) The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.
- (ii) A commitment in form of an undertaking for periodical occupational health checkup of the employee and the local people shall be done through an occupational health expert as per the detailed action plan submitted with the proposal within 6 months from the date of issue of Environmental Clearance.
- (iii) The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public

DM



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986)

Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.

- (iv) The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- (v) The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.
- (vi) The Project Proponent shall ensure that 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.

24



- (vii) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- (viii) The activities proposed in action plan prepared in terms of the provision of the MoEF& CC Office Memorandum No-22-65/2017-IA.III dated 30<sup>th</sup> September,2020 for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the action plan and within the stipulated time frame. The status report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the IRO, Bhubaneswar, MoEF&CC, OSPCB & SEIAA, Odisha.
- (IX) Miscellaneous**
- (i) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
- (ii) 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.
- (iii) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the concerned Integrated Regional Office (IRO), Bhubaneswar of Ministry, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board.
- (iv) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
- (v) The project proponent shall augment infrastructure on drinking water, health care and education in nearby villages as per time bound action plan submitted.
- (vi) The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area.
- (vii) It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment

24



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986

Impact Assessment Authority (SEIAA), Odisha, SPCB & Regional Office of the Ministry of Environment & Forest, Odisha in hard and soft copies on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year. No hard copies of six -monthly compliance reports shall be submitted to SEIAA. The proponent shall upload the six-monthly compliance report including results of monitored data, as applicable in the website of the Ministry(www.parivesh.nic.in) for monitoring of EC Conditions as per the guidelines of Ministry.

- (viii) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the concerned Integrated Regional Office(IRO),Bhubaneswar of MoEF&CC, GoI, Central Pollution Control Board and State Pollution Control Board.
- (ix) The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (x) The concerned Integrated Regional Office (IRO) of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
- (xi) The SEIAA, Odisha may revoke or suspend the EC, if implementation of any of the above stipulated conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
- (xii) 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 and any other Court of Law relating to the subject matter.
- (xiii) This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble

DH



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA**  
SRF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3512840, Email: seiaaodisha@gmail.com  
statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment  
(Protection) Act, 1986

Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Causes vs Union of India Conditions as may be applicable.

- (xiv) 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.

Yours faithfully,

  
**Member Secretary**

**Copy to:**

1. **Joint Secretary (IA Division)**, Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. **Additional Chief Secretary**, Forests & Environment Dept., Government of Odisha for information.
3. **Additional Secretary to Govt**, Steel & Mines Department, Government of Odisha for information.
4. **Member Secretary**, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
5. **Additional Principal Conservator of Forests**, Integrated Regional Office (IRO), Ministry of Environment & Forests, A/3, Chandrasekharpur, Bhubaneswar for information.
6. **Regional Director**, CGWA, South Eastern Region, Bhujal Bhawan, Khandagiri, Bhubaneswar, Pin-751030.
7. **The Director of Mines**, Odisha, Bhubaneswar/DDM, Koira/DFO, Bonai for information and necessary action.
8. **Collector & DM**, Sundargarh for Information and necessary action.
9. Guard file for record/Website/Parivesh Portal.

DH

  
**Member Secretary**