



AGENDA NO.93.1

Proposal No.	SIA/OR/INFRA2/401996/2022
File No.	401996/01-INFRA2/10-2022
Project Type	EC-Expansion
Category	B1
Project/Activity including Schedule No.	7(a) Air ports column (4): "All expansions projects, including airstrips, which are for commercial use"
Name of the Project	Proposal for grant of EC for Up-gradation of Rourkela Air Port (expansion case) under RCS-UDAN scheme of Govt.of India at Rourkela Airport, adjacent to Sector-14, Rourkela Steel Township, Village Rourkela, District- Sundargarh by SAIL – Rourkela Steel Plant (RSP)
Name of the company/Organization	SAIL – Rourkela Steel Plant (RSP); Sri.P.K.Satapathy, Executive Director(P & A)
Location of Project	Odisha
ToR Date	22.08.2022
Name of the Consultant	M/s Gaurang Environmental Solutions Pvt Ltd,Jaipur

Proposal in brief :

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA,are given as under.
 - (i) This proposal is for EC for Up-gradation of Rourkela Air Port (expansion case) under RCS-UDAN scheme of GoI, over an area 41.2779 ha. located in Village Rourkela, District – Sundargarh of M/s. SAIL - Rourkela Steel Plant.
 - (ii) SAIL – Rourkela Steel Plant (RSP) is the first Integrated Iron & Steel Plant and a Maharatna Company under Ministry of Steel which was established by Govt. of India in the year 1959 at Rourkela, Odisha. SAIL- RSP has an Air Strip adjacent to Sector14 of Rourkela Steel Township for private use established in early seventies. This is located inside the Notified Industrial Township of SAIL - Rourkela Steel Plant (a public sector undertaking of GOI) by Govt. of Odisha.
 - (iii) Ministry of Civil Aviation (MoCA) has decided to develop the Rourkela Air Strip for operation of Commercial Flights under the Regional Connectivity UDAN Scheme of Govt. of India. This is an existing airport operating since early 1970s as a private airstrip for Rourkela steel plant. Earlier, Rourkela Airstrip was functioning with private license which was converted to Code-2B Day VFR Category Airport with issue of Public Use License in the year 2018. The development is to be carried out by Airport Authority of India Limited (AAI) & Memorandum of Understanding (MoU) was signed between SAIL and AAI on 23rd April, 2018 as per which,

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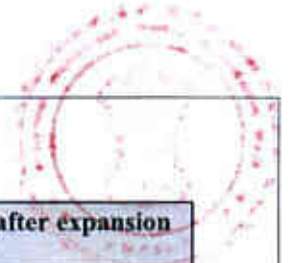
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- AAI has to develop the Rourkela Airport for civil operations under Regional Connectivity Scheme (RCS)UDAN and operate it for 3 years.EC is sought for the first time for the expansion proposal.
- (iv) The airport is presently licensed for Code 2B air craft operations. Keeping in view of the forthcoming Hockey World Cup, to be hosted by the Govt. of Odisha, it was decided in the month of Feb., 2021 to go for up-gradation of Rourkela Airport from Code-2B to Code-3C for operation of ATR-72/Q-400 type Aircrafts under RCS-UDAN Scheme. AAI is the executor of the project.
- (v) The Term of Reference (ToR) for the project was issued vide SEIAA's letter no. 5235/SEIAA dated 22.08.2022 for undertaking detailed EIA studies.
- (vi) The EIA study has been carried out by collecting Baseline Data from December'2019 to March' 2020 (winter season) & during June 2022(15days).
- (vii) The TOR to the project has been granted with exemption from public hearing by SEIAA since the Rourkela airstrip is located inside the Notified Industrial Township of SAIL - Rourkela Steel Plant & there is no land acquisition, rehabilitation &/or resettlement issues & only internal demarcation of land use (from RSP Township to airport) is changing. Recently, SAIL-RSP has successfully gone through Public Consultation process and Public Hearing was done on 13th September, 2021.
- (viii) No additional land will be acquired for the upgradation. The area earmarked for the upgradation & allied works will be in land already in possession of RSP (SAIL). The existing area of Rourkela airport is set to increase from existing 102 acres to 250 acres. SAIL- RSP will provide existing infrastructure for Airport Operations to AAI to make the necessary up-gradation. The estimated capital project cost is Rs. 50 Crore.
- (ix) Project Brief: The proposal involves Extension & strengthening of Runway of dimensions 605m X 45 m having total useable runway of 1810m x 45m suitable for Q-400, construction of ATC Tower, Provision of Taxiway of Length 128m, width 23m, Construction of Apron of dimension 105m x 80m with shoulder of width 5.5m on all sides for parking of two Q-400, Construction of Prefabricated Terminal Building of area 3505 m² The allied facilities proposed are additional utility building for housekeeping and support staff (200 Sqmt), Construction of a new Toilet Block, Utility vehicle shed (100 Sqmt area) separate utility block, CNS equipment, PAPI, internal roads, landscaping, PHE works etc. The total area of RSP Airport after the proposed upgradation will be 250 Acres (Existing: 102 Acres, proposed 148 acres).

Land use breakup of the existing and proposed project are as follows:

Sl. No.	Description	Present (in m ² .)	Total After implementation of Proposed Project (in m ² .)
1.	Total area of terminal building	375	3505 (0.35%)
2.	Surface parking area	2000	48562.3 (4.80%)
3.	Service/utility block area	50	300 (0.03%)
4.	Total Green Area	2000	3,31,865.7 (32.80%)
5.	Total Open Area (runway, taxiways & apron area)	60,636	92,794 (9.17%)
6.	Other(roads/paved/unpaved/open area)	3,46,718	5,34,688 (52.85%)
	Total	4,12,779 (102 acre)	10,11,715 (250 acre)

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(x) Present facilities and proposed facilities are as follows:

S. No.	Particulars	Present Facility	Proposed Facility after expansion
i)	Suitability of aerodrome	Code 2B	Code-3C
ii)	Aircraft operations	Non-scheduled	Scheduled/Non-scheduled
iii)	Total airport area (Acre)	102 Acre	250 Acre
iv)	Type of traffic permitted	VFR	VFR
v)	Runway		
	Runway Length	1760 m	1810 m
	Runway strip width	30 m	45 m
vi)	Terminal Building		
	Capacity	Peak Hour Passenger (PHP) Capacity: 50	Peak Hour Passenger (PHP) Capacity: 200
	Car Parking Area	5 no. of cars.	50 no. of cars
vii)	Apron Details		
	Number	1 no.	02 (1 no. existing & 1 no. proposed)
	Capacity	1 no.	2 nos. (Aircraft parking bays)

- (xi) **Location & Accessibility:** The project area is a part of the Survey of India Toposheet No. 73B/15 and the geo-coordinates of the project area is Latitude: 22° 15' 22.46" N Longitude: 84° 48' 52.59" E. The National Highway-143 is at 2.5 KM from project site towards West direction. The nearest railway station is Rourkela Junction at 5.7 Km SE direction. Rourkela is the nearest town from the project site located at 3.0 KM towards East direction.
- (xii) **Water Requirement:** The project proponent has submitted that the daily consumption of water during operation phase will be about 136.05 KLD, out of which 75.60 KLD (Existing: 0.45 KLD, Proposed: 75.15 KLD) will be fresh water and 60.45 KLD will be STP treated water. The water requirement will be met from the existing Rourkela Steel Township Water Distribution Network & treated water from proposed 75 KLD STP Plant of Rourkela Air Port.
- (xiii) **Wastewater Generation & Treatment:** During operation phase, wastewater generated from Airport premises will be treated in the proposed Sewage Treatment Plant (STP) of capacity 75 KLD which will be established based on the latest technology & comprising primary, secondary and tertiary treatment facilities. The treated waste water to the tune of 60.45 KLD will be used for landscaping in the airport premises.
- (xiv) **Power Requirement:** The estimated power requirement for the expansion project will be 250 kW to be met from Rourkela Steel Township Power Grid. For this purpose an additional Transformer (250 KVA) with HT LT cables and switchgears will be installed. There will be power backup through DG set to meet the requirements of ATC and Passenger Lounge of 250 kVA to be used in case of power cut or failure.
- (xv) Storm water control and rain water harvesting will be done as per the standards laid down by CGWA & BIS.

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- (vi) The solid waste generated from the project will be approx. 260kg per day during operation of project.
- (vii) **Green Belt** - Total area proposed for Greenery Development within airport premises is 333865.7 Sqmt. (33%) and total trees to be provided is 44,515 nos. and 3 rows plantation around Air Port Boundary following safety guidelines of Directorate General of Civil Aviation will be done for expansion project.
- (viii) The estimated capital project cost is Rs.50 Crore (Funding from RCS-UDAN Scheme of GoI). The budgetary allocation for EMP is Capital Cost: Rs.8.5 Crore & Recurring Cost: Rs 17.5 Lakh.

Whether SEAC recommended the proposal – Yes, the SEAC recommended for grant of Environmental Clearance in its meeting dated 12.10.2022 valid for a period of 10 years with stipulated specific and standard conditions (as per Annexure – A).

Decision of Authority:

After detailed deliberations, the Authority decided to **grant Environmental Clearance** to the proposal with stipulated conditions as recommended by SEAC with the following additional conditions.

1. Traffic Study within 05Km of the project shall be done and vetted by a reputed Institute within 03 months period.
2. The PP shall submit the geo-reference kml file of lease area both in pdf and kml format to SEIAA (E-mail-seiaaodisha@gmail.com).
3. An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite disaster management plan for the district within 6 months period.

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APPROVED BY

Confirmed by email

Member Secretary, SEIAA

[Signature]
15/10/22
Member, SEIAA

[Signature]
18/10/2022
Chairman, SEIAA



AGENDA NO.93.2

Proposal No.	SIA/OR/MIS/272494/2022
File No.	272494/92-MIS/06-2022
Project Type	Fresh EC
Category	B2
Project/Activity including Schedule No.	8(a) Building & Construction projects
Name of the Project	Proposal for grant of EC of Proposed LB+UB+G+12 floors (Block-A & Block-B) Residential Building Apartment over plot no-177, Khata No-166/273 at Mouza-Arakhakuda orapa, Telengapenth, District - Cuttack, Odisha.
Name of the company/Organization	M/s Aryans Infrastructure Private Limited Sri. Mahadev Pati; Managing Director(Applicant)
Location of Project	Odisha
ToR Date	N/A
Name of the Consultant	M/s Global Tech Enviro Experts Pvt. Ltd,Bhubaneswar

Proposal in brief :

2. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- i) This is a proposal for EC for Proposed Construction of LB+UB+G+12 floors (Block-A & Block-B) residential building apartment over land of 4613 m² (1.139Ac.) on plot no-177, Khata No-166/273 with total built-up area of 21,813.54 sqm at Mouza- Arakhakudaorapa, Telengapenth, District-Cuttack of M/s. Aryans Infrastructure Private Limited, filed by Sri Mahadev Pati (Director)
- ii) **Location and Connectivity** - The Geographical coordinates of the project site is: Latitude 20° 23' 12.10" N to 20° 23' 14.21" & Longitude 85° 53' 1.92" E to 85°53' 4.64" E and the project site is a part of Survey of India Toposheet No. F45T15. Nearest NH-16 is at a distance of 0.24 Km. The Cuttack RS is at a distance of about 8.5 km. The SCB medical college and hospital is at a distance of 9.2km from the project site.

iii) **The Building Details of The Project:**

Building Height = 39m
Building length = 35.49m
Building width = 24.99m

No of Towers = 2,
Block A has - 3BHK(38Flats) and 4BHK(13 Flats)
Block B has - 3BHK(25Flats), 1BHK(25Flats) and 2BHK(25 Flats)
No of floors = 12
No. of Dwelling Units: 126

- iv) **Water requirement:** Fresh make up of 60KLD will be required for the project which will be sourced from Ground water. It is expected that the project will generate 30 KLD of wastewater which will be treated in

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- STP of capacity 100 KLD. Treated water will be fully utilised during Non-Monsoon Period and 11KLD will be discharged to drain during Monsoon Period.
- v) **Power requirement:** The daily power requirement for the proposed complex is preliminarily, estimated to be 746 KW and source is from Tata Power Central Odisha Distribution Limited (TPCODL). The NOC letter with letter No. 1636, dtd.20.11.2021 from TPCODL. In order to meet emergency power requirements during the grid failure, there is provision of one nos. of DG set having 400KVA capacities for power back up in the residential building Project. Solar energy to be generated by 56 nos. of solar panels per day = 66KW.
 - vi) Rain Water will be harvested through 5 nos. of rain water recharging pits.
 - vii) **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the provisions given in Part-IV of National Building Code of India -2016 and relevant BIS specifications.
 - viii) **Parking** - Adequate parking space of 5713.87 Sqmt/173 ECS is provided in Lower Basement, Upper Basement and open space.
 - ix) **Green Belt Development:** An adequate greenbelt on area of 1,014.86 sq.m. (22% of the plot area) and landscape area of terrace of 200 sqm. above will be developed.
 - x) **Solid Waste Management:** The solid waste generated from the project shall be approx. 282kg per day during operation of project. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste as per the guidelines of Solid Wastes Management Rules, 2016.
 - xi) The estimated project cost is Rs.55 Crores.

Whether SEAC recommended the proposal –Yes, the SEAC has recommended for grant of EC valid for 10 years in its meeting dated 02.09.2022 with additional conditions along with standard conditions.

- i) "Khatian" (Patta after Mutation) for the entire land from the appropriate Revenue Authority with 'Kisam' as Gharabari shall be obtained along with ownership before which construction work shall not start. The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The Proponent shall obtain permission/NOC from Executive Engg (PHD) and / or from the appropriate authority for disposal of Sewage and treated effluent to the nearest drain without which the Proponent will not start construction work. Also in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The proponent shall use solar energy of 5% as proposed.
- iv) To reduce discharge of treated water to open drain, the proponent shall use more water for increased number of trees proposed to be planted in the green belt area & shall also utilize this treated water for car washing, floor washing to minimize the surplus discharge to drain.
- v) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- vi) All the compliances submitted/ committed by PP (s) shall be strictly adhered to by them.

Further, the Sub-Committee of SEAC will visit the site within 3 months from the date of issue of Environmental Clearance to verify the progress of the project as well as conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.

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Decision of Authority:

After detailed deliberations, the Authority decided to **grant Environmental Clearance** to the proposal with stipulated conditions as recommended by SEAC with the following additional conditions.

1. No road side parking shall be allowed.
2. The PP shall submit the geo-reference map of the area both in PDF and KML format to SEIAA (E-mail-seiaaodisha@gmail.com) .
3. Road development plan with cost details to be submitted by PP.

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APPROVED BY

Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



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AGENDA NO.93.3	
Proposal No.	SIA/OR/MIN/55807/2020
File No.	55807/89-MINB1/06-2022
Project Type	Fresh EC
Category	B1
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Mining of Iron Ore with production Capacity of 2.95 MTPA (RoM) From Kalamang West (Northern Part) Iron Ore Mines at Village- Kalamang & Ghodabudani District- Sundergarh & Village - Gandalpada, District - Keonjhar, Odisha (MLA: 92.875 ha)
Name of the company/Organization	M/s Tata Steel Limited
Location of Project	Odisha
ToR Date	15.01.2021
Name of the Consultant	M/s Visiontek Consultancy Services Pvt. Ltd. , Bhubaneswar

Proposal in brief :

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
 - (i) This is a proposal for EC for mining of iron ore from Kalamang West (Northern Part) Iron Ore Mines with Production Capacity of 2.95 MTPA (ROM) over M.L area of 92.875 Ha at Village- Kalamang & Ghodabudani of District- Sundergarh & Village Gandalpada of District- Keonjhar of Sri Vijayendra Devasamudra.
 - (ii) The Kalamang West (Northern Part) Block Iron Ore Mine is proposed over an area of 92.875 hectares (ha) which involves 42.608 ha of forest land (16.658 ha in Keonjhar Forest Division, District Keonjhar and 25.950 ha in Bonai Forest Division, District Sundargarh) and 50.267 ha of non-forest land. The Mining area is situated in three villages namely, village Kalamang&Ghodabudani of Tahasil – Koira, District Sundargarh& village Gandalpada of Tehsil - Barbil, District Keonjhar State Odisha.
 - (iii) TOR was issued by SEIAA vide letter reference No.22/SEIAA dated 15.01.2021 to the project for undertaking detailed EIA studies.
 - (iv) The Government of Odisha had issued Letter of Intent (LoI) vide Govt. letter No. IV(MISC) SM-53/2017/5285/SM dt.24.06.2017 as per Rule 10(2) was again modified by Steel and Mines Department, Government of Odisha vide letter no. IV(MISC) SM-53/2017/6287/SM dt.27.07.2017 revising the earlier mentioned area of 92.0 ha to 92.875 ha for grant of Mining Lease for Kalamang West (Northern Part) Iron Ore Block in village Kalamang & Ghodabudhani in District Sundargarh and village Gandalpada in District Keonjhar is in the name of M/s Bhushan Steel Ltd. The change of name from Bhushan Steel Limited to TATA STEEL BSL Limited was approved by the Department of Steel and Mines vide letter No. 1409/SM/dated 27.02.2019 for grant of a Mining Lease. Now, M/s Tata Steel BSL Ltd. has requested to 'The Additional Chief Secretary' of Department of Steel and Mines, Govt. of Odisha for extension of validity of LOI vide letter no TSBSL/CS/2020/101 dated 05.03.2020.
 - (v) Location & Environmental Sensitivity :The geo-coordinates of the mine lease area is Latitude: 21°56' 47.757"- 21°57' 32.347" N Longitude: 85°17' 06.658" - 85°17' 57.531" E. There is no National Park, wildlife sanctuary, biosphere reserve within 15 km radius of the Mine. However, Karo Karampada



- Elephant corridor is located at about 8.6 km N of the lease area. There is no perennial surface water body in the applied mine lease area.
- 42.608 ha. of forest land has been reported to be involved in the project. Approval under Section 2(iii) of the Forest (Conservation) Act, 1980 for diversion of 42.608 ha of forest land for non-forestry purposes has been obtained vide MoEF&CC letter No. 8-32/2021-FC dtd. 31.01.2022. Approval under section 2(ii) has been recommended by GoO to MoEF&CC vide letter no: FE-DIV-FLD-0048-2022-10644/FE&CC dated 17/06/2022.
- (vii) Site Specific Wildlife conservation plan for schedule-I species has been submitted to the Divisional Forest Officer of Bonai Forest Division & Keonjhar Forest Division vide ref. no. JCO/13/133/118 dtd. 7th June 2022.
- (viii) Public Hearing for this project was conducted in two districts i.e Sundergarh and Keonjhar. In respect of Keonjhar district, PH was conducted on 09.03.2022 at 11.00 A.M at Village Gandalpada (GP-Guali) P.S- Rugudihi, Hata No. 48, Plot No. 194 & for Sundergarh district, PH was conducted on 10.11.2021 at 10:30 A.M at Football Play Ground of Kalamang village under Koira Block. The major issues raised in the public hearing were provision of employment to local people, education, medical facilities, infrastructural development and welfare activities, road maintenance, tree plantation etc. Action plan for fulfilling the PH commitments has been made.
- (ix) Baseline monitoring studies has been carried out for the period December 2019 to February 2020 (Winter Season).
- (x) **Reserves** - Total geological reserves reported in the mine lease area is 929,73,749 T (92.97 MT) with 718,86,002 T (71.88 MT) mineable reserve. The mine capacity will be 2.95 MTPA Iron Ore (ROM) corresponding to the production of 2.84 MTPA Saleable Iron Ore with a total Max excavation of 4.54 MTPA. In the lease area, iron ore (ROM) grade varies from 45% to 65% Fe. Iron ore of > 55% Fe is considered as marketable grade. The reserve in between 45-55% Fe has been taken as sub-grade ore (Mineral rejects).
- (xi) **Method of Mining**: Opencast Fully Mechanized Mining method has been proposed. It is proposed to commence mining operation from north eastern part of the lease. In the plan period of about 2.95 MTPA, has been proposed for production. As the mining activities in the lease area is to be commenced, activities connected with development of the mine such as scrapping of weathered zones, cutting of trees/bushes, making of access roads, infrastructure development etc will be given prime preference. After the development of an access road to the targeted area a box cut will be opened and thereafter, it will be expanded both laterally and depth-ward to fulfill the required production target. Life of mine is 25 years.
- (xii) **Production**: The annual excavation is targeted at 2.95 MTPA (RoM) Iron Ore with total maximum excavation of 3.92 MTPA. The ROM will be fed to a mobile crushing/ screening plant of 1000 TPH capacity. The lump ore and fines will be segregated in the Crushing /Screening plant.
- (xiii) **Drilling & Blasting**: Drilling will be carried out using 110-150 mm dia. Drill with 3.0-4.0m burden & 3.5-4.5 m spacing based on the geological rock characteristics. Taking into account the disposition of the ore body, it has been estimated that about 80 % (approx.) of planned quantity will require drilling & blasting.
- (xiv) **Transportation**: Transportation of iron ore has been proposed through 5 railway sidings such as Barbil Rail siding, Nayagarh Rail siding, Jururi Rail siding, Banspani Rail siding & Barsua Rail siding.
- (xv) **Nature of Waste**: A total volume of 14,58,980 m³ insitu waste is to be generated from the lease area. For the purpose a volume 1,12,241 m³ waste generated in the 1st year from the lease area will be used and rest waste of volume 3,30,412 m³ will be accommodated on the proposed dumps. Dump-A and B have been proposed in the NE side and SE side of the lease area over an area of 0.967 Ha. & 1.826 Ha. respectively. Similarly, the in situ waste to be generated in the 2nd year is 3,87,513 m³, out of which of 1,84,267 m³ will be used for backfilling of the exhausted portion and rest quantity of waste of volume 2,03,246 m³ shall be accommodated over the proposed dump-A and C. Dump C will be located at the northern part of the Dump-B. In the third year a vol of 1,00,524 m³ waste will be utilized for backfilling and the rest of 1,37,257 m³ waste will be dumped on Dump C. The total waste to be generated in the

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- fourth year and fifth year of volume 1,70,254 m³ and 2,20,779 m³ respectively will be used for backfilling of the exhausted areas.
- (xvi) Rehabilitation & Resettlement: The mine lease area comprises of 20.580 Ha private land. Few habitations of Ghodabudhani village are located in the lease area. The project involves 71 affected families and 54 numbers of displaced families involves. All the affected families shall receive R & R compensation based on their entitlements as prescribed under the Orissa R&R Policy, 2006 and subsequent biennial revisions communicated by Govt. from time to time as well as the best practices recommended by the LARR Act, 2013 . Funds allocated for R&R Rs. 39.07 crores.
- (xvii) Green Belt: Plantation will be carried out in 7.5 m wide safety barrier zone, backfilled area, inactive dump slopes, etc. At conceptual stage, almost 4.17ha. will be under plantation.
- (xviii) Rainwater Harvesting Details: Proposed recharge measures are construction of trenched along the green belt, roads and through recharge pits which accounts to a recharge of around 21700 m³ /year. Total rainwater harvesting potential in the project area is around 302471.1 m³ /year or 0.302471 MCM.
- (xix) Water Requirement: The total water requirement is about 235 KLD (For Drinking & Domestic Uses - 65 KLD and for Mining Operations, dust suppression and Plantation - 170 KLD). For Ground water abstraction of 65KLD, application submitted vide no. 21-4/3864/OR/MIN/2022 dtd. 28.06.2022. For Surface water withdrawal of 170 KLD application submitted vide no. 2021012241000218 dtd. 01.03.2021 from Suna River.
- (xx) Power Requirement: Power utilization for this project is 1,800 – 2,000 KW. 3 DG sets of 850 KVA will be used for emergency backup. Power permission will be obtained from Odisha State Electricity Board (OSEB) after EC.
- (xxi) Employment Potential: The project will generate direct to the tune of about 428 persons as well as indirect employment opportunities for the nearby villages.
- (xxii) Total cost of the project is Rs. 216.20 crores. Capital EMP cost is Rs. 9.96 Crores & Recurring cost is Rs. 0.865 crores. Budget for PH commitments is Rs. 9.93 crores.

Whether SEAC recommended the proposal – Yes, the SEAC recommended for grant of Environmental Clearance with stipulated conditions in its meeting dated 02.09.2022(Annexure-1).

Decision of Authority:

After detailed deliberations, the Authority decided to **grant Environmental Clearance** to the proposal with stipulated conditions as recommended by SEAC with the following additional conditions.

1. Revised Drainage Plan to be submitted by PP.
2. The public road passing through the mining lease shall be given access to the public after lease execution in consultation with the villagers.

APPROVED BY

Member Secretary, SEIAA


15/10/22
Member, SEIAA


15/10/2022
Chairman, SEIAA





AGENDA NO.93,4

Proposal No.	SIA/OR/MIN/76663/2022
File No.	76663/87-MINB1/05-2022
Project Type	Fresh ToR(expansion)
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for grant of ToREnhancement in Production of Iron ore from 0.41 million TPA to 3 million TPA ROM with total excavation of 4.073 million TPA (ROM of 3 million TPA + 1.073 million TPA waste) and setting up a 100 TPH Jigging & Washing Plant, two mobile Jaw Crushers of 200 TPH capacity each, two mobile Cone Crushers of 200 TPH capacity each & two Vibratory Dry Screen Plants of 200 TPH Capacity each from Sanindpur Iron & Manganese Mines over an area of 70.917 ha in Village- Sanindpur, under Block & Tehsil- Koida, Subdivision- Bonai, District- Sundargarh
Name of the company/Organization	M/s National Enterprises
Location of Project	Odisha
ToR Date	N/A
Name of the Consultant	M/s Centre for Envotech& Management Consultancy Pvt. Ltd., Bhubaneswar

Proposal in brief :

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
 - (i) This is a proposal for ToR for enhancement in production capacity of iron ore from 0.41 million TPA to 3 million TPA ROM with total excavation of 4.073 million TPA (ROM of 3 million TPA + 1.073 million TPA waste) and setting up a 100 TPH Jigging & Washing Plant, two mobile Jaw Crushers of 200 TPH capacity each, two mobile Cone Crushers of 200 TPH capacity each & two Vibratory Dry Screen Plants of 200 TPH Capacity each from Sanindpur Iron & Manganese Mines over an area of 70.917 ha in Village- Sanindpur, under Block & Tehsil- Koida, Subdivision- Bonai, District- Sundargarh.
 - (ii) Sanindpur Iron & Manganese Mines over an area of 75.00 hectares was initially granted in favour of M/s National Enterprises for a period of 20 years vide proceeding No-6717/MG, dated 24.04.1980. The lease was executed on 10.09.1980 for a period of 20 years i.e. up to 09.09.2000. Subsequently, the Dept. of Steel & Mines, Govt. of Odisha granted 1st RML over an area of 70.917 Ha. in favour of M/s National Enterprises vide proceeding No- III(B)SM-17-1219/SM, dated 25.01.2001. As per MMDR Amendment Act, 2015 the lease is valid up to 09.09.2030. The supplementary lease deed was executed on 21.05.2021.
 - (iii) The DFO, Bonai had issued show cause for violating the section 2 of FC Act 1980 and requested to stop mining within DLC land vide letter No. 4344/6F on dated 22.08.2009.
 - (iv) Mining operation within lease area was stopped by the Deputy Director of Mines, Koira from 26.08.2010 on the ground of non-maintenance of environmental clearance as required under EIA

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- Notification 2006. Later, the mining operation within the lease area restarted in June, 2021 only after obtaining the permission from the DDM, Koira vide letter no. 1786/Mines, dated 20.05.2021.
- (v) The Environmental Clearance for production level of 0.41 million TPA of Iron ore has been obtained from MoEF vide letter no J-11015/375/2008-IA.II(M), dated 28.06.2013.
- (vi) Stage-II Forest Clearance has also been obtained vide MoEF& CC letter No. 8-10/2015-FC, dated 06.10.2020 over an area of 54.399 ha. (including safety zone of 6.841 ha.)
- (vii) Consent to Operate has been issued by SPCB, Odisha vide order No. 5118/IND-I-CON-5633, dated 26.03.2021 and valid up to 31.03.2022. Later the validity of CTO was extended till 31.03.2023 vide letter no. 5136/IND-I-CON-5633 on 30.03.2022.
- (viii) The modification of Review of Mining Plan is prepared for enhancement of production form 0.41 million TPA to 3 million TPA due to change in working proposals for the balance plan period from 2022-23 to 2024-25 and approved by IBM Regional Office, Bhubaneswar vide letter no. MRMP/A/36-ORI/BHU/2021-22, dt. 23.03.2022.
- (ix) **Location:** The lease area is featured in Toposheet No 73 G/5 bounded by latitude 21° 54' 37.00683" N to 21° 55' 16.43478" N and longitude 85° 18' 25.71442" E to 85° 19' 08.30766" E.
- (x) **Reserves** - Geological reserve of 31.94 million tons and Mineable reserves of 15.65 million tons have been assessed for the iron ore in the lease area.
- (xi) **Production Details:** Based on the exploration input it is planned to produce ROM of 3 million tons iron ore per annum from the lease area along with a 100 TPH Jigging & Washing Plant for Beneficiation of low grade iron ore, two 200 TPH capacity jaw crusher, two 200 TPH cone crusher & two 200 TPH capacity vibratory dry screening plant each within the mines. The only existing quarry will expand in all direction as well as depth wise to produce iron ore.
- (xii) **Mining Method** - Open cast mechanized method of mining on two shift basis with drilling & blasting is proposed to excavate the iron ore to gradually achieve the production target. Drilling and blasting will be adopted for loosening of hard rock mass both by Core drilling machine along with compress drill. Height and width of the benches will be maintained at 9m & 10m respectively; The slope of individual bench will be 800 and overall slope of the pit will be 420. Benches will be formed in a top downward manner. Life of the mine is 6 years.
- (xiii) **Waste Generation and Management** - No top soil will be generated in the mining process as the top surface is lateritic. During the 4th year of mining, backfilling will be started to reclaim 29.32 ha, balance 12.301 ha. will be converted to water body with accumulated rain water. Total 8,96,280m³ waste will be generated during life of the mines; The generated waste material will be dumped in Dump-III, which is already spread over 3.65 ha. Conceptually the dump occupies 5.951 ha. and maintain the height upto 37m in five tires. 50% of the waste material will be used in backfilling of mined out area and balance to be used in road maintenance.
- (xiv) **Plantation**- During the conceptual period, 73,300 nos. of plants will be planted on the backfilled area of 29.32 ha. Apart from it, 7.367 ha of the conceptual dump area will be terraced & plantation will be developed on each terrace; 2.212 ha of road, 2.137 ha of mineral storage yard & 1.57 ha of infrastructure area will left as such for public used. At present plantation is made in green belt as safety zone over 1.35 ha. with 3375 plantations and in untouched non-mineralized zone over 1.84 ha. with 4600 plantations.
- (xv) **Water Requirement** - The peak water requirement shall be 75 m³/ day for mining related activity & 44 m³/ day as make up water for Jigging& Washing Plan and shall be met from the Suna river & ground water source with due permission.
- (xvi) **Power Requirement** - The supply of electrical energy for the mine site shall be received from TPWODC. The power requirement for the mining complex (including office) shall be 1000 KVA.
- (xvii) **Manpower** - The mining activity shall generate direct employment opportunity for 104 persons & 20 more in Jigging & Washing Plant and most of them shall be fulfilled by the locals.
- (xviii) **Project Cost** - The project cost is estimated to be Rs. 40 crores and there is a budgetary provision of Rs. 4 crores as capital cost towards environmental protection measures; whereas Rs 80 lakhs will be spent annually towards regular maintenance & recurring activities.

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Whether SEAC recommended the proposal – Yes, the SEAC prescribed specific ToRs in addition to standard ToRs for conducting detailed EIA study in its meeting held on 02.09.2022 with additional conditions.

The following points shall be complied and submitted.

- a) Compliance of mining plan, including waste and OB dump management, mine closure plan etc.
 - b) Compliance to Common cause judgment
 - c) Status of R&R
 - d) Compliance of plantation
 - e) Compliance of public hearing issues
 - f) Status of complaints/ court cases/legal action
 - g) Compliance of specific conditions of earlier EC duly certified by Regional Office of MoEF&CC.
 - h) Any other relevant environmental issue / parameter.
- ii) The following studies be undertaken by domain experts, viz:
- a) Blast vibration study
 - b) Socio economic study of the neighbouring habitation
 - c) Biodiversity study with audit mechanism.
- iii) The Project Proponent shall undertake the peripheral plantation and plantation in closed areas as well as gap plantation within 6 months with saplings of 4-6 ft height aiming atleast 90% survival rate. An undertaking for the same also needs to be submitted by Project Proponent.
- iv) Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. Project Proponent also shall include the budget for the betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets.
- v) The project proponent should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after grant of EC.
- vi) The project proponent should submit the revenue plan for mining lease, revenue plan should be imposed on the satellite imaginary clearly demarcate the Govt. land, private land, agricultural land etc.
- vii) The project proponent should submit the real-time aerial footage & video of the mining lease area and of the transportation route. The project proponent should submit the detailed plan in tabular format (year-wise for life of mine) for afforestation and green belt development in and around the mining lease. The project proponent should submit the number of saplings to be planted, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this the project proponent should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Presently in India there are many agencies which are developing forest in short interval of time. Thus, for the plantation activities details of the experts/agencies to be engaged needs to be provided with budgetary provisions.
- viii) The project proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle needs to be submitted. In addition to this PP should submit a detailed

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- plan for rain water harvesting measures to be taken. PP should submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
- ix) The project proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this the project proponent should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
 - x) The project proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance & Corporate Environmental Responsibility. The capital and recurring expenditure to be incurred needs to be submitted.
 - xi) The project proponent should submit the measures/technology to be adopted for prevention of illegal mining and pilferage of mineral. The project proponent should submit the detailed mineralogical and chemical composition of the mineral and percentage of free silica from a NABL/MoEF&CC accredited laboratory.
 - xii) The project proponent should clearly show the transport route of the mineral and protection and mitigative measure to be adopted while transportation of the mineral. The impact from the center line of the road on either side should be clearly brought out supported with the line source modelling and isopleth. Further, frequency of testing of Poly Achromatic Hydrocarbon needs to be submitted along with budget. Based on the above study the compensation to be paid in the event of damage to the crop and land on the either side of the road needs to be mentioned. The project proponent should provide the source of equations used and complete calculations for computing the emission rate from the various sources.
 - xiii) The project proponent should clearly bring out that what is the specific diesel consumption and steps to be taken for reduction of the same. Year-wise target for reduction in the specific diesel consumption needs to be submitted.
 - xiv) The project proponent should bring out the awareness campaign to be carried out on various environmental issues, practical training facility to be provided to the environmental engineer/diploma holders, mining engineer/diploma holders, geologists, and other trades related to mining operations. Target for the same needs to be submitted.
 - xv) The budget to be earmarked for the various activities shall be decided after perusal of the Standard EC conditions. After perusal of Standard EC conditions if agreed the project proponent should also submit an undertaking by the way of affidavit for Compliance of Standard EC conditions already prescribed by the Ministry vide O.M. No and Specific condition if prescribed by the SEAC/SEIAA, Odisha.
 - xvi) The project proponent should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. The project proponent shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The project proponent and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the SEIAA, Odisha are factually correct and the project proponent and consultant are fully accountable for the same.
 - xvii) The project proponent should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this the project proponent should submit the original test reports and certificates of the labs which will analyze the samples.
 - xviii) The percentage of iron in the final waste generated and not used as iron ore or its upgradation.
 - xix) Compliance to NEERI recommendations.
 - xx) Slope study for both mines and OB /wastes through domain expert to be undertaken and blasting study



- as well
- xxi) Traffic density study, both inside the mines and at haulage road intersecting points of haulage road with public road be undertaken by domain expert.
 - xxii) "Zero discharge" management & "Zero Dust Re-suppression" management with detailed plan to be submitted.
 - xxiii) Internal roads, drain management with network of the drain, retaining walls and settling tanks with ETPs be submitted.
 - xxiv) Details of air quality monitoring stations of the area and additional stations at entry and exit of mines and haulage roads, habitation to be considered.
 - xxv) Construction and perennial maintenance of haulage road with details of plantation and the species thereof to be submitted.
 - xxvi) Parking plaza layout with maximum no. of vehicles and types of vehicles that can be parked with basic amenities and facilities.
 - xxvii) Forest Clearance details with copy of all Forest Clearance.
 - xxviii) Status of complaints/ court cases/legal action regarding to lease along with a detailed write up indicating case no., purpose of the case etc.
 - xxix) Copy of lease document.
 - xxx) Details of waste management i.e. composition and nature of waste generated, tabulated form showing year wise waste generation, usage and storage.
 - xxxi) Details of silt, waste and water Management should include the design of drainage structures.
 - xxxii) Since, the perennial nala is passing nearby, detailed measures to be taken to protect the nala due to mining activity for non-contamination of ground water due to mining.
 - xxxiii) Slope study report.
 - xxxiv) Project Proponent shall consider developing a good nursery in nearby village for production of saplings of 4-6feet height for planting in safety zone, sides of external haulage roads and distribution among villagers for planting in their private land/ community land. The nursery may be developed by company on their own or in collaboration with forest department. A detailed proposal to this effect shall be submitted.
 - xxxv) Saplings/ trees existing in mining area shall be uprooted and transplanted with ball of earth in safety zone or non-mineral zone. A detailed proposal to this effect shall be submitted.
 - xxxvi) Comprehensive water management, water balance with water harvesting and its reuse both monsoon and non-monsoon period.
 - xxxvii) STP- plan with design since the no. of employee is 133 plus the housing population with location in the layout map.
 - xxxviii) Provision of solar power (percentage wise) with detail plan.
 - xxxix) To submit the network with dimension of concrete cement roads inside the mining lease area and haulage road.
 - xl) To submit parking plaza at entry and exit of the mines with basic amenities.
 - xli) Detailed plan to be submitted for water sprinkling inside the mines and outside in haulage road including

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- regular vacuum cleaning and Zero Dust Resuspension system to completely mitigate and arrest fugitive dust emission.
- xlii) Air Modelling details with prediction for next 10 years after this project is operational.
 - xliii) Kisam of non- forest land and conversion of the same to Mining use.
 - xliv) Comparative matrix previous and proposed production w.r.t overburden, green belt, water balance, haulage roads, settling ponds, ETP.
 - xlv) Comparative statement of Base line studies data between last EC granted in 2007 and now and identify the deviations & mitigation measures to address the same.
 - xlvi) Comparative statement with reference to Pollution load for the existing mines and proposed expansion in view of almost three times expansion.
 - xlvii) Top soil management so far and proposed expansion.
 - xlviii) Year- wise Production details duly certified by concerned mines Authority of the Govt that there is no violation.
 - xlix) Compliance to earlier EC conditions duly certified by regional office of MOEF&CC and compliance to conditions of CTE/ CTO duly certified by SPCB.
 - l) Design and capacity of RWH pond(s) and the basis with water balance -- existing and proposed.
 - li) Tailings Management and Silt Management with SOP for periodic de-siltation of any Nala/ waterbody/ Agriculture/ Crop lands.

Decision Of Authority:

Term of Reference (ToR) with Standard and Specific conditions as recommended by SEAC is **approved**.

APPROVED BY

Member Secretary, SEIAA


15/10/22
Member, SEIAA


15/10/2022
Chairman, SEIAA

AGENDA NO.93.5	
Proposal No.	SIA/OR/MIN/73422/2022
File No.	73422/80-MINB1/03-2022
Project Type	Fresh ToR
Category	B1

D-1



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Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for grant of ToR for Production of 28,119 TPA ROM of Manganese ore with total excavation of 68,289 TPA (ROM of 28,119 TPA + waste of 40,170 TPA) from Katasahi Manganese Ore Mines over an area of 13.674 ha. in village- Katasahi under Block- Joda, Subdivision- Champua in Keonjhar district of Odisha
Name of the company/Organization	M/s Ferro Alloys Corporation Limited (FACOR)
Location of Project	Odisha
ToR Date	N/A
Name of the Consultant	Centre for Envotech & Management Consultancy Pvt,Bhubaneswar

Agenda Note :

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
 - (i) M/s Ferro Alloys Corporation Limited (FACOR) has applied for "Terms of Reference (ToR)" for Katasahi Manganese Ore Mines for production of 28,119 TPA ROM of Manganese ore with total excavation of 68,289 TPA (ROM of 28,119 TPA + waste of 40,170 TPA) from over an area of 13.674 ha. in village- Katasahi under Block- Joda, Subdivision - Champua in Keonjhar district of Odisha.
 - (ii) The project proponent has submitted that the Mining Lease of Katasahi Manganese Mines was granted in favour of M/s Ferro Alloys Corporation Limited (FACOR) vide proceeding no. 3339 /SM, dtd. 04.05.1998 issued by Department of Steel and Mines, Govt. of Odisha. Subsequently the lease deed was executed for entire lease area over 13.674 ha. for 20 years, from 01.08.1998 to 31.07.2018. By virtue of Section-8A (3) of MMDR Act-2015, the mining lease of Katasahi Manganese Mines is deemed to have been granted upto 31.07.2048. Katasahi Manganese ore mines has no previous EC. Consent to Operate was issued by SPCB, Odisha for production of 5040 TPA of manganese ore vide letter no. 13493/IND-I-CON-5572, dated 16.08.2010, valid upto 31.03.2011.
 - (iii) The lessee has reported the opening date of mining to be 30.04.2001. However, the commercial production from the mines has been started in 2002. The mining operation has been stopped within the lease area since 27.08.2010 by the IBM due to violation found against the approved mining scheme; later the same suspension has been revoked by IBM itself vide its order of 25.01.2011. But mining operation has not started after that due to lack of EC & FC. At the time of lease execution, entire 13.674 Ha was classified as non- forest land, but later on the office of Tahasildar, Badbil, vide his Memo no. 3047 dtd. 28.06.2016 has verified the total mining lease area of 33.79 Ac (13.674 Ha.) of Katasahi Manganese Mines of FACOR and certified that out of 13.674 ha., 8.725 ha. area was coming under Forest Category as per Sabik Settlement Record of 25.10.1980. Accordingly, application for diversion of 8.725 Ha. forest land for non-forest purpose (mining) was submitted to MoEF&CC.
 - (iv) Katasahi Manganese ore mines have no previous EC. Consent to Operate was issued by SPCB, Odisha for production of 5040 TPA of manages ore vide letter no. 13493/IND-I-CON-5572, dated 16.08.2010, valid upto 31.03.2011. The mine had gone for production in the year

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2010-11 and 2011-12 without Environmental Clearance and subsequently closed due to want of Environmental Clearance and Forest Clearance. Now, the lessee has decided to restart production of manganese ore to maximum ROM of 28,119 TPA (20,527 TPA of +20% grade manganese ore and 7,592 TPA of +10 to +20% grade manganese ore) with total excavation of 68,289 TPA (ROM of 28,119 TPA + 40,170 TPA of waste) from the lease area. Scheme of Mining with Progressive Mine Closure Plan was approved by Regional Controller of Mines, Indian Bureau of Mines vide letter no- MS/OTF-MECH/63-ORI/BHU/2010-11, dated 11.04.2011. Then the Review of Mining Plan along with Progressive Mine Closure Plan has been approved for the period 2021-22 to 2025-26 by the same authority vide letter no- RMP/A/24-ORI/BHU/2020-21/1269, dated 23.11.2021. The project cost is estimated to be Rs. 7.31 crores.

- (v) **Location and Connectivity** - The lease area falls in Toposheet No 73G/5 (F45 N5) and bounded by latitude 21° 57' 33.27" N to 21° 57' 14.79" N and longitude 85° 19' 01.26" E to 85° 19' 27.72" E. Nearest town are Barbil (21km away) and Koida (9km away) where all facilities like medical, postal, education, market, etc are available.
- (vi) **Total Reserves and Method of Mining** - Katasahi mining lease area over 13.674 hectares consisting of two blocks i.e. Block- A (9.275 ha) and Block- B (4.399 ha). Geological reserves of 455,983 MT and Mineable reserves of 411,320 MT have been assessed for the manganese ore in the lease area. The future mining will continue simultaneously in the existing two pits (Quarry- 1 & Quarry- 2) within the lease area to gradually achieve the production target of 28,119 tons of manganese ore per annum. Life of the mine is reported to be 15 years whereas ore to waste ratio was 1:0.72 (t/ m³).
- (vii) **Waste Generation and Management** - Presently, an area of 3.738 ha. is already degraded in the lease area due to previous mining & ancillary activities and conceptually, this area increases to 7.645 ha. No top soil will be generated from the Quarry- 1 whereas from Quarry- 2 3,000 m³ of top soil will be generated during review of Mining Plan period, which will be stacked temporarily over 0.1 ha. in Block – B & use for plantation in subsequent years. At present there are 3 waste dumps (Dump-1, Dump-1A & Dump-2, which are all inactive in nature) having total volume of 13,060 m³ occupying 0.45 ha. in total. During the proposed mining period, Dump-1 & Dump- 1A shall be merged. Conceptually the 2 waste dumps (Dump – 1 & Dump - 2) will occupy 1.176 ha.; of which 0.315 ha. will be occupied by Dump -1 & 0.861 ha. will be covered by Dump- 2. Both the dumps will attain a height of 10m in one tire. During tenth year of mining i.e. 2032-33, backfilling will start from the southern part of the Quarry- 1. 2,00,257 cum waste (total waste to be generated in the last 10 years of mining) will be utilized for reclamation of mined out land of Quarry - 1; balance 91,780 cum waste will be dumped in existing two dumps. Quarry- 2 will be converted to water body at the end of the life of the mine.
- (viii) **Water Requirement** - The peak water requirement shall be 30 m³/ day and shall be met from the ground water with due permission. Ground water table will not be intersected as ultimate working depth of the mines will be at 566m AMSL whereas the water table of the area reaches maximum upto 550m AMSL during post monsoon period.
- (ix) **Employment Generation** - The mining activity shall generate direct employment opportunity of about 77 nos. and most of them shall be fulfilled from the locals.
- (x) The project cost is estimated to be Rs. 7.31 crores. A fund of Rs 80 lakhs has been earmarked as capital cost for the implementation of EMP and Green Belt Development plan. Recurring cost of Rs 25 lakhs annually.



Whether SEAC recommended the proposal – Yes. The SEAC after detailed presentation by the project proponent along with consultant noted that the proponent has gone for excess production of Iron Ore without prior Environmental Clearance under EIA Notification, 2006. The SEAC, after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC, Govt. of India Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended for issuing Standard Term of Reference(as per Annexure- A) along with the following specific Term of Reference and additional specific conditions as recommended by CSIR-NEERI on carrying capacity study (as per Annexure-B) for undertaking EIA and preparation of Environmental Management Plan (EMP)

- (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 theregulatory authority i.e. SEIAA, Odisha.
- (iii) 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.
- (iv) 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.
- (v) 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.
- (vi) Public hearing shall be conducted for the proposal as per procedure laid down in EIA Notification, 2006 and amendment thereafter.
- (vii) To submit the lease sketch approved by DMG, at the time of presentation before SEAC.
- (viii) Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1stMay, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- (ix) Detailed hydrological study to be carried out in core and buffer zone of the project as per the recent GEC guidelines 2015.
- (x) Approved mining plan is to be submitted.
- (xi) Recent compliance report from the regional office of MoEF&CC, Govt. of India, Bhubaneswar for the existing Environmental Clearance, if any.



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- (xii) Considering that there is a primary school and cremation ground nearby, blast vibration study is required to be carried out with a few trial blasts to establish the blasting parameters to avoid the hazards due to fly rock and vibrations. There is a serious safety concern of having a school within the mining lease though beyond 250m distance. Supporting documents to be submitted along with EIA report to the alternate arrangement or how to maintain safety (in case mining is continued in presence of school). The PP shall bring this fact to the knowledge of the Government and submit the response letter to SEAC positively as they are very sensitive.
- (xiii) Compliance to NEERI recommendation with reference to Production of Manganese Ore from Steel and Mines Department, Government of Odisha is to be submitted.

Decision Of Authority:

- Term of Reference (ToR) with Standard and Specific conditions as recommended by SEAC is **approved.**
- Further, as recommended by SEAC, 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

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APPROVED BY

Member Secretary, SEIAA


15/10/22
Member, SEIAA


15/10/2022
Chairman, SEIAA



ANY OTHER ITEM WITH PERMISSION OF THE CHAIRMAN.

6. Policy decision of SEIAA for finalizing the Draft EC Conditions of Sand & Stone for Minor Minerals.

Policy Decision of SEIAA: The Authority finalized the EC Conditions stipulated for Sand & Stone for mining of minor minerals.

- A. Policy decision on quantity fixation for extraction of sand for the first year & second year was considered as per Sustainable Sand Mining Guidelines, 2016 and Enforcement and Monitoring Guidelines for Sand Mining (EMGSM), 2020. As per guidelines in Para 4.3(r) of Enforcement and Monitoring Guidelines for Sand Mining (EMGSM), 2020, it is stated that "the area for removal of minerals shall not exceed **60% of the mine lease area**, and any deviation or relaxation in this regard shall be adequately supported by the scientific report". Thus, the extractable quantity allowed for the 1st year shall be limited to the annual extractable quantity mentioned in the mining plan or the 60% of the mine lease area, whichever is less.
- B. Secondly, in the absence of approved Annual Replenishment Rate Study Report (ARRS), the **annual replenishment rate of @ 25% will be allowed** as per Order dated 02.02.2022 of the Hon'ble NGT in OA No.33/2020/EZ (Laxmidhar Palai Vrs. District Collector, Balasore) against the 100% annual extractable quantity mentioned in the mining plan. Hence, the extractable quantity allowed for the 2nd year shall be limited to 25% of the extractable quantity allowed in the 1st year. Such limitation of EC will be granted on adhoc basis for two years in the absence of duly approved DSR & ARRS by the applicant. Further, amendment to the permitted quantity in the 2nd year as well as extension of the validity of the EC shall be considered on submission of duly approved DSR & ARRS.
- C. The decisions taken in the 91st, 92nd and 93rd meetings of the SEIAA stands modified to this extent. All ECs shall be issued after revising the extractable quantity in 1st and 2nd year as per the above policy decision.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA

SEP