AGEND	A NO.116.01		
Proposal No.	SIA/OR/MIN/79164/2020		
Date of Application	26.08.2022		
File No.	79164/96-MINB1/08-2022		
Project Type EC			
Category	B1		
Project/Activity including Schedule No.	1(a)-Mining of Minerals		
Name of the Project	Proposal for EC for Kamarda Chromite Block (ML Area: 107.240 Ha) Fo Production Of 0.30 MTPA Chromite Ore (ROM) With Maximum Excavation Of 2.50 Million Cum Per Annum Through Opencas Mining At Village: Talangi, Kamarda & Balipada Tehsil- Sukinda, Jajpur District		
Name of the company/Organization	Applicant: Tata Steel Mining Limited Sri.Pankaj Kumar, MD		
Location of Project	At Village: Talangi, Kamarda & Balipad Tehsil- Sukinda, District -Jajpur		
Name of the Consultant	M/s Visiontek Consultancy Services Pvt Ltd, Bhubaneswar		

Proposal in brief:

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 of M/s.Tata Steel Mining Limited for Environment Clearance of Kamarda Chromite Block (ML Area: 107.240 Ha) for Production of 0.30 MTPA Chromite Ore (ROM) with Maximum Excavation of 2.50 Million Cum Per Annum Through Opencast Mining located at Village Talangi, Kamarda&Balipada Tahasil Sukinda, District Jajpur filed by Sri.Pankaj Kumar MD
- (ii) The Kamarda Chromite Block Mining lease comprising of 107.24 Hectare area was originally granted and executed in favour of Sri B. C. Mohanty for a period of 20 years with effect from 22.02.1968. Subsequently, the lease was transferred in favour of M/s. B. C. Mohanty & Sons (P) Ltd on 05.05.1981. The tenure of the lease expired on 22.02.1988 and the lessee got the first renewal of lease for a further period of 20 years up to 22.02.2008. The lessee filed application for second renewal of the ML for a further term of 20-year w. e. f. 22.02.2008 on 13.02.2007, one year prior to expiry of the mining lease, over the entire area. The renewal application was processed by Government of Odisha as per section 8(A) (6) of MM(D&R) Amendment Act,2015 and the mining lease period was extended up to 31.03.2020 vide supplementary lease deed dt. 06.10.2015.
- (iii). The e-auction process was conducted in accordance with the tender document for the Kamarda Chromite Block and M/s Tata Steel Mining Limited (Formerly known as M/s T.S. Alloys Limited).
- (iv). Clearances held by Sri B C Mohanty has been vested to M/s Tata Steel Mining Limited as per Vesting Order issued vide Letter No 4129/SM dated 28th May 2020. The PP have also submitted that the Government of Odisha pursuant to the Mines & Minerals (Development & Regulation) Act 1957 and the Mineral (Auction) Rules 2015, conducted auction for grant of lease for Kamarda Chromite Block located in Jajpur district of Odisha. The Lessee Company M/s T S Alloys Limited was emerged as successful bidder in the e-auction process. Letter of Intent (LOI) for grant of mining lease of Kamarda Chromite Block in Jajpur District over 107.240 Ha Area in favour of the Company for a period of 50 years was issued by the State Government vide Letter

No 9012/SM dated 18.11.2019 read with letter No. 9095/SM dated 20.11.2019. Subsequently, in terms of section 8B(2) of MMDR Act, 1957 read with rule 9A(4) of MCR, 2016, the bidder is deemed to have acquired all valid rights, approvals, clearances, licenses and the like vested with the previous lessee for a period of two years from the date of execution of the lease deed or till the date of getting fresh approvals, clearances, licenses, permits and the like whichever is earlier as per Vesting Order issued vide Letter No 4129/SM dated 28.05.2020.

(v). Mining Plan has been approved by IBM, Bhubaneswar dated 25.09.2018. Mining Plan of TSML

was approved on 28.09.2020.

(vi). Consent to Establish has been obtained from SPCB, Odisha on dated 31.03.2020 & Consent to Operate from SPCB, Odisha on dated 31.03.2021.

(vii). Surface right from District Collector, Jajpur over 108.92 Ha. has been obtained.

(viii). Ground water drawl permission has been obtained from CGWA, (GoI) dated 16.07.201 & fresh applied vide Application Number: 21-4/4185/OR/MIN/2022 on 31.08.2022.

(ix). Earlier, Environmental Clearance has been obtained from MoEF&CC, Govt. of India on dated 08.05.2008 for production of 0.088 MTPA Chromite Ore and 0.036 MTPA Chrome Concentrate production.

(x). Forest Diversion has been obtained from MoEF&CC, Govt. of India, dated 28.03.2008 over an area of 87.44 Ha of entire forest land involved. The previous lessee has paid Rs.7,89,68,200 towards NPV (Net Present Value) for the total forest area of 105.78 Ha. Tata Steel Mining Limited has also paid the NPV of Rs.7,93,35,000/- over entire forest land of 105.78 Ha.

- (xi). The Kamarda Chromite Block is located in three villages namely Village- Talangi, Kamarda & Balipada, Tehsil- Sukinda, District- Jajpur, Odisha over an area of 107.240 ha in which 101.850 ha land is forest land and rest 5.390 ha land is non forest land as per HAL Settlement and 105.780 Ha is Forest Land and 1.460 Ha is non forest land as per Sabik Settlement. PP has submitted that online application for obtaining fresh Forest Clearance over entire forest land of 105.780 ha(includes 18.34ha forest land) vide proposal no. FP/OR/MIN/51780/2020 dated 22.10.2020 has been submitted.
- (xii) PP has further submitted that there are no wild life sanctuaries, national parks, elephant/tiger reserves within 10 km of the notified mine lease area.

(xiii). Deep hole blasting & use of HEMM permission has been obtained from DGMS, (GoI) dated 04.01.2019 (TSML has also obtained the fresh 106 (2) (B) on 25.08.2021)

(xiv). The Company is also pursuing at State Level for diversion of Tomka- Mangalpur State Highway which is presently passing through the lease so that mine can be expanded and ore from greater depth can be mined. The proponent has applied for state road diversion passed through mining lease.

(xv) The MOEF &CC, Govt. of India had issued the Terms of Reference for the Project vide letter no. F. No. 111015/56/2021-IA.IIDated5thFebruary, 2021. Public hearing for the proposal was

conducted on 22.12.2021 at 2.00PM. grest Railway Station is Daily

(xvi) Location and Connectivity - The Kamarda Chromite Block is located in three villages - Tailangi, Kamarda&Balipada, Tehsil- Sukinda, District- Jajpur, Odisha over an area of 107.240 ha in which 101.850 ha land is forest land and rest 5.390 ha land is non forest land as per HAL Settlement and 105.780 Ha is Forest Land and 1.460 Ha is non forest land as per Sabik Settlement. The Kamarda Chromite Block is spread over an area of 107.240 Ha, and it falls in Survey of India Topo Sheet/Open Series Map No. F45N16 (73G/16). The lease area represents undulating topography marked by linearly disposed mounds of low relief. The area is bounded by latitude 21°03'06.11316" - 21°03'50.88708" and longitude 85°49'22.45836" - 85°50'11.31576" and covered by survey of India Toposheet no 73 G/16. The maximum elevation of the area is 180 m RL on the southern side while the minimum elevation is 160 m RL on the western portion of the area. The gradient of the area is 150. The mine is well connected by NH-200, which is about 11 km in S. Nearest Railway Station is Daitari Railway Station which is



about 9.50 km, in NE direction. Biju Patnaik International Airport, Bhubaneswar is about 140 km in SE direction from the project site.

(xvii) Mining plan details: The method of mining will be open cast fully mechanized mining. Fully mechanized Opencast mining is proposed to be carried out during the plan period. The operations like digging, excavation and removal of ore will be done with the help of heavy earth moving machineries. Keeping in view the production of 0.3 Million Ton of Chromite ore (ROM) per annum, life of the mine will be about 81/2 years. Life of the mine may be increase after future exploration and Slope Steepening.

(xviii). Water Requirement: About 330 KLD water will be required for dust suppression, plantation, wheel wash, drinking & domestic activities, etc. Mine pit water will be used for dust suppression and plantation activities. Ground water from borewell will be used for drinking and domestic use. The PP has also submitted that ETP has been installed in the mine lease area. Further on Central Effluent Treatment Plant (CETP) of capacity 1200 KL/ Hr is planned to be installed to cater

requirement of both Saruabil & Kamarda Mine.

- (xix) Waste Water Treatment in ETP: The water will be treated with Ferrous Sulphate or Sodium bisulphate. Hexavalent chromium is reduced to trivalent chromium by dosing Ferrous Sulphate. Sulphuric acid will be used to bring down the pH between 3 to 4. Chromium is precipitated as chromium hydroxide by dosing with alkali (NaOH). Chromium hydroxide is then separated in a Clariflocculator. The flocculant system will be enhanced by dosing with polyelectrolyte. This water is treated in the filtration system (sand bed) and Iron exchange removal. The chromium hydroxide precipitate will be disposed off to an authorised Treatment, Storage and Disposal facility (TSDF). The treated water will be discharged into Damsal Nala. Further the PP has submitted that organic manure will be used in excess (vermi-compost/cow dung) and grass propagules and creepers will be planted along with trees/shrubs. This will reduce the Cr (VI) to Cr (III) and it will prevent leaching into surface water and ground water. Garland drains constructed along dumps and mine pit shall route the water to settling ponds.
- (xx). Power Requirement: The use of electricity will be for lighting/illumination purpose in mining operations and will be obtained from TPCODL. A total of 450 KVA will be required.
- (xxi). Manpower Requirement: A total of about 440 persons will be required to carry out the opencast mining operation.
- (xxii). Rehabilitation & Resettlement: Rehabilitation & resettlement plan for 68 housing projects have been proposed in the SIA report. Total cost of R&R is proposed to be Rs. 0.77 Crores.

(xxiii). Baseline details:

Period	October – December 2020
AAQ Parameter at 8 locations	PM ₁₀ = 29 to 64.1 μ g/m ³ PM _{2.5} = 17 to 38.5 μ g/m ³ SO ₂ = <4 to 8.1 μ g/m ³ NO _x = <9 to 13.6 μ g/m ³
Noise quality at 8 locations	Ambient noise ranges from 36.7 dBA to 60.4 dBA
Surface water at 8 locations	pH ranges from 7.21 to 7.84, DO ranges from 4.4 to 6.3 mg/l, COD ranges from 6.0 to 20 mg/l
Ground water at 8 locations	pH ranges from 5.06 to 7.78, total hardness varies from 14 to 180 mg/l, chloride ranges from 3.8 to 38 mg/l, TDS ranges from 20 to 316 mg/l



Soil at 12 locations	pH ranges from 7.03 to 7.24, SAR ranges from 2.6 to 4.4 %, clay percent ranges from 59.8 to	
	73, all the metals are below detectable level	

(xxiv). The cost of the project has been estimated to be Rs. 83.50 Crore. EMP cost-9.39 crores as capital cost & 1.49crores as recurring cost. CER Budget-132.35 lakhs allocated which will be spent within three years.

(xxv). The project proponent along with the consultant M/s Visiontek Consultancy Services Pvt. Ltd.,

Bhubaneswar made a detailed presentation on the proposal on 02.11.2022.

(xxvi). Any deficiencies/omission have been noticed in the above documents- The PP has submitted FC proposal vide proposal no. FP/OR/MIN/51780/2020 dated 22.10.2020 for the fresh forest area and has stated that 18.34 ha area will remain undisturbed.

(xxvii). The proposal was placed in the 113th meeting of SEIAA and the Authority observed that the EC application for the expansion project involves 105.780Ha forest land while FC has been obtained for only 87,44Ha. The Authority decided that the PP is required to submit the stage-I FC for the balance forest area of 18.34Ha.

Now the PP has submitted the required ADS for consideration of EC.

Whether SEAC recommended the proposal - Yes, in its meeting held on 20.02.2023, the SEAC recommended for grant of Environmental Clearance with stipulated conditions and following specific conditions.

- (i) The proponent shall not carry out any activity including mining in non-diverted Forest area of 18.34 ha. till they obtained Forest Clearance. The proponent shall strictly follow the procedure laid down in guidelines for diversion of forest land issued by MoEF&CC, Govt of India vide F. No. 11-599/2014-FC, dated 01.04.2015 (copy enclosed as Annexure - B).
- (ii) The mine shall take adequate measures to minimize the discharge of waste water to Damsala
- (iii)The project proponent shall monitor analysis of hexavalent chromium in nearby soil and water body periodically and follow mitigation measures if necessary.

(iv)All the compliances submitted/ committed by PP (s) shall be strictly adhered to by them.

Decision of Authority:

After detailed deliberation, the Authority observed the following:

- 1) The project proponent has submitted environmental clearance (EC) issued by MoEF & CC, Govt. of India vide EC Identification No. EC23A001OR114343 dated 13.04.2023 in respect of of proposed expansion of production of Iron ore from 12 MTPA to 19.5 MTPA (ROM) with total excavation of 22.94 MTPA and beneficiation plant throughput capacity increase from 12 MTPA to 17.6 MTPA in Joda East Iron Mine within ML area of 671.093 ha located in the villages Joda, Kamarjoda, Banspani, Khuntpani & Baitarani Reserve Forest (R.F) in Barbil Taluka, Keonjhar District, Odisha in favour of M/s. Tata Steel Ltd. Khandbond Iron and Manganese Mines.
- The mines lease area of 612.70 ha [567.087 ha(Stage II FC available) + 45.613 ha (Non-forest land)] out of 654.743 ha [671.093 ha (Joda East Iron Ore mine)-16.35 ha(Manmora Manganese mine)], located at Joda, Kamrjoda, Banspani, Khuntpani & Baitarani Reserve Forest (RF) in Barbil Taluka, Keonihar District, Odisha.
- 3) The Karmarda Chromite Block is an auctioned mines which has been acquired by M/s. Tata Steel Mining Ltd. and a vesting order issued vide letter no. 4129/SM dated 28.05.2020 acquiring all valid rights, approvals, clearance, license with the previous lessee for a period of 2 years from the date of execution of lease deed or till the date of forest approval or clearance. licences,
- As per the MoEF & CC, FC Division vide File no. F.No.11-97/2018-FC dated 08.02.2021 in Para (ii), for undertaking mining operation as per changed land use envisaged in new mining plan, the

user agency needs to seek prior approval under the Forest (Conservation) Act. 1980 within the stipulated period of 2 years.

5) In the light of above guideline of MoEF&CC, the PP is required to clarify FC (Part/full) for Kamarda Chromite Block in their favour from MoEF & CC for further consideration of the proposal.

APPROVED BY

Member Secretary, SEIAA

Member SETAA

Chairman, SEIAA

AGENDA NO.116.02				
Proposal No.	SIA/OR/THE/415567/2023 21.02.2023			
Date of Application				
File No.	415567/THE-01/2023			
Project Type	EC			
Category	B1			
Project/Activity including Schedule No.	1(d) Thermal Power Plants			
Name of the Project	Proposal of EC for 2 x 30 MW Indepent Power Producers Thermal Power I located at Village—Bainchua, Tehsil – Ta District—Cuttack by M/s Maadurga The Power Company Limited			
Name of the company/Organization	Applicant- M/s Maadurga Thermal Powe Company Limited.			
Location of Project	at Village-Bainchua, Tehsil - Tangi District-Cuttack			
Name of the Consultant	M/s Grass Roots Research & Creation India (p) Ltd. Noida			

Proposal in brief:

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 of M/s Maa Durga Thermal Power Company Limited for EC of 2 x 30 MW Independent Power Producers Thermal Power Plant located at Village—Bainchua, Tehsil – Tangi, District—Cuttack filed by Sri Animesh Gupta, Authorised Signatory.
- TOR details: Terms Of Reference has been granted by SEIAA, Odisha for the project on 15th December, 2022 vide F. No-SIA/OR/THE/402003/2022.
- (iii). Earlier, Environment Clearance for the project was obtained by M/s Maa Durga Thermal Power Company Limited, from SEIAA, Odisha Vide Ref No – SEIAA/337, dated: -04.07.2011 for 60 MW (2 x 30 MW) coal base power plant valid upto 03.07.2018.
- (iv). Consent to Establish has been issued vide letter no 184 dated 04.01.2011 and was valid upto 03.01.2016. Latest CTE was also obtained from Odisha State Pollution Control Board vide letter No. 4817 dated 31.03.2017.
- (v). Project details: Company started the construction but due to financial condition they couldn't complete the construction of project. More than 85% work has been completed as per the earlier granted EC and plant is shutdown since 2018. Thereafter, National Company Law Tribunal (NCLT) initiated the public auction for current plant and M/s Radhe Ram Shaw, M/s Virajaa Power & Steels Pvt. Ltd. and M/s United Ferrocast Private Limited were successful bidder of the auction. Successful bidders have acquired M/s Maadurga Thermal Power Company Limited, where the previous Directors have resigned from the company. So they are presently proposing this application under the name of M/s Maadurga Thermal Power Company Limited with new directors.
- (vi). As per LULC the land use within 10 Km. is Settlement-4.72%, Water Bodies 3.57%, Plantation-55.22%, Vegetation-2.06%, Forest-13.16%, Open Scrub-7.12% and Agriculture Land-14.15%.
- (vii). The proponent has applied afresh for ToRs for EIA study as they were not able to complete the project work as well as had not gone for operation during validity period of Environmental Clearance.
- (viii). During the presentation for ToR, the proponent requested to issue Terms of Reference for EIA Study exempting public hearing as per MoEF&CC, Govt. of India amended EIA Notification vide

S.O.1247 (E), dated 18th March 2021 as they have already completed construction work more than 50% during validity period of Environmental Clearance. The proponent had also requested to allow them for use of baseline data collected during March 2022 to May 2022 for EIA study.

(ix). Terms of References was issued vide F. No-SIA/OR/THE/402003/2022, dated 15th December, 2022 for conducting EIA study exempting public hearing as per the provision of MoEF&CC, Govt. of India amended EIA Notification vide S.O.1247 (E), dated 18th March 2021.

(x). Location and connectivity: The project site is located at Village - Bainchua, Tahasil - Tangi, District-Cuttack, State- Orissa. The project site is located at the distance of about 0.23 km towards South-East from NH -16, NH - 55 is at 9.9 km towards WSW direction and SH - 9A is at 9.9 km in SW direction. The nearest village is Bainchua, which is located about 0.4 km towards NE direction. The nearest railway station is Kapilas Road Junction Railway Station which is located at about 3.3 km in SW direction and nearest Air Port is Biju Patnaik International Airport, Bhubaneswar, which is situated at about 41 km in SW direction. The site and study area falls in the survey of India, Topo Sheet No-F45U2. Birupa River is at 3.0 km towards SSE direction and Lake is at 6.3 km towards NW direction from the project boundary. There are no Wildlife sanctuaries & National Park within 15 km radius. Nearest forest is Panchbhya PF is at 2.6 km in NW direction. The location is in Seismic Zone-III.

(xi). Land use: Total land available is 32.13 Acres for the project. This land is sufficient for the setup of the facility for the 2 x 30 MW power plant. 10.60 Acres land has been earmarked for greenbelt

as per standard norms, which is 33% of total plot area.

Sl. No.	Description	Area (ac.)
1.	Plant & Machinery	12.32
2.	Ash Pond Area	3.67
3.	Green belt area	10.60
4.	Water Reservoir	2.34
6.	Admin, Parking etc.	3.2
	Total	32.13

(xii). Water requirement: Daily fresh water requirement is approx. 760 KL/day for boilers, auxiliary units, domestic use, generator, BFWP and air compressor, cooling, drinking etc. Source of water will be surface water from Birupa river and partial amount will be met through ground water. Permission for surface water has been obtained from Industrial Promotion & Investment Corporation of Odisha Limited (IPICOL) on dated 11.01.203 which is under process to obtain NOC from Department of Water Resources (DoWR) and application for ground water abstraction has been submitted vide application No. 21-4/4709/OR/IND/2023 dated 19.01.2023.

(xiii). Waste water generation: The project will be based on concept of Zero Effluent Discharge. Recycled water to be utilized with sprinkler system for dust suppression and maintaining green belt in the

plant.

(xiv). Waste generation: About 80% of the ash shall be generated as Fly Ash while 20% of the ash shall be generated as bottom ash. With average daily coal requirement of 1728 TPD, it is estimated that about 864 MTPD (considering 50% ash) of ash shall be generated daily Fly ash will be directly sold to the nearest cement plants like RAMCO, OCL etc. falls near to plant location. Domestic solid waste will be disposed as per applicable norms.

(xv). ETP/STP: There will be ETP of capacity 800 KLD and STP of capacity 10 KLD against estimated

waste water generation of about 760 KLD.

(xvi). Power requirement: Power requirement for the project is 3.0 MW and will be sourced from the Chandikhol Grid. 2 DG sets of 750 KVA will be provided for power backup.

(xvii). Stack Details: Common stack is provided for 2 x 135 TPH boiler. A stack of 92 m is provided for effective dispersion of pollutants into the atmosphere.



- (xviii). Traffic study: It is estimated that 50 Nos. of trucks (35 Tons) per day will be required for various industrial activities.
- (xix). Greenbelt: A greenbelt development plan is implemented along with the implementation of project. After expansion, total green belt & plantation area is 4.29 ha. Number of trees required to be planted is 10725 Nos and number of trees already planted is 1000.

(xx). Baseline data has already been collected in Pre-Monsoon period i.e. 1st March, 2022 to 31st May 2022

(xxi). Summary of Ambient Air Quality:

- Results were compared with the standard for ambient air quality monitoring as per the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- During the study PM₁₀ was observed in the range of 63.1 to 85.9 μg/m³. Maximum concentration of PM₁₀ was found at project site
- PM_{2.5} was observed in the range of 36.3 to 49.6 μg/m³. Maximum concentration of PM_{2.5} was found at village Bandalo.
- SO₂ concentration was observed in the range of 6.1 to 11.8 μg/m³, which is well within the standard limit.
- NO₂ concentration in was observed in the range of 10.4 to 23.8 μg/m³, which is well within the standard limit.
- Monitoring and analysis was also carried out for CO. Result for the CO was found well within
 the norms and was observed in the range of 230 to 870 μg/m³, which is well within the
 standard limit.

(xxii). Summary of Noise Quality:

- Noise levels during day time were found to be in the average range of observed values was 46.4 to 72.5 dB (A). The highest noise level was observed as 72.5 dB (A) at Project Site, which is adjacent to Industrial area road and lowest value was observed as 46.4 dB (A) at CHC Tangi hospital, Tangi Town.
- Noise levels were observed in the range 33.9 to 62.3 dB (A) during the night time. The highest noise level was observed as 62.3 dB (A) at Project site and lowest value was observed as 33.9 dB (A) at CHC Tangi hospital, Tangi Town.

(xxiii). Summary of Ground Water Quality:

The ground water sampling was carried out at 8 locations. Ground water analysis was carried out during the study period in the month of May 2022. The results were compared with the Drinking water specification IS 10500: 2012 (Reaffirmed 2018) and it is summarized as under: The pH value of water samples varies from 7.38 to 7.55, indicating slightly neutral in nature. Total dissolved solid was recorded in the range of 395 to 490 mg/L with minimum at Village Bainchua and maximum at Village Amiyajhari. Total hardness was in the range of 195 to 226 mg/L. Total Alkalinity was found in the range of 178 to 200 mg/L. Chloride was found in the range of 56 to 122 mg/L. Heavy metals were analyzed and found within the desirable limits of standard. Microbiological parameters (Total coliforms and E. coli) were also carried out and it was found that no organism was detected in any 100 ml of samples. It means that no contamination was observed in ground water samples.

(xxiv). Summary of Surface Water Quality:

The surface water sampling was carried out at 8 locations. Surface water analysis was carried out during the study period in the month of May 2022. Data computations for 8 sampling locations were carried out and summarized as under: pH value of the samples was recorded in the range of 7.30 to 8.10, indicating slightly alkaline in nature. Total dissolved solids was recorded in the range of 160 to 450 mg/L. DO measured during site analysis and found in the range of 4.2 to 6.6 mg/L. COD & BOD analysis were also carried out and it was found in the range of 8.9 to 28.1 mg/L and 2.3 to 12.4 mg/L respectively. Heavy metals are below within the desirable limit of all sampling locations. Microbiological analysis was carried out and Positive results were found for



Total coliforms and faecal coliforms. The Coliforms recorded in the range of 190 to 730 MPN/100ml. The presence of coliform organisms indicates towards the degree of microbial contamination in surface water body.

(xxv). Summary of Soil Quality:

The soil sampling was carried out at 05 locations. Data computations for 05 sampling locations were carried out and summarized as under: based on particle sizes distribution and texture, the soils are mostly sandy loam category. The pH value of the soil suspension varied from 7.26 to 7.89. In terms of soil pH the characteristic of the soil is moderate pH and week alkaline in nature. The Electrical conductivity varied from 213 to 317 µS/cm. The sodium absorption ratio of soil varied from 0.52 to 0.64. The Cation exchange capacity varied from 13.8 to 14.7 meq/100 gm. The loss on ignition in terms of organic matter varied from 0.79 to 0.89 %, it indicates that soils are moderate in organic carbon status. Soil maintained the optimal desired organic substances. The major nutrient such as Nitrogen, Phosphorus and Potassium level were varied from 145.4 kg/ha to 189.0 kg/ha., 12.5 to 18.1

kg/ha and 299.5 to 358.0 kg/ha respectively

(xxvi). Manpower: During operation phase, 70 persons will be direct employment in different area.

About 100 persons will be indirect employment.

(xxvii). Project cost: The overall estimated cost of project is 588.99 Cr. The capital cost for environmental management is estimated to be Rs.17.88 Cr and Rs. 4.25Cr per year will be annual recurring expenses. Total CER cost is 5.88 Cr (1% of Project Cost).

(xxviii). The Environment consultant M/s Grass Roots Research & Creation India (p) Ltd. Noida, UP along with the proponent made a presentation on the proposal before the Committee on 17.02.2023.

(xxix). Any deficiencies/omission have been noticed in the above documents-Nil

The proposal was placed in the 113th meeting of SEIAA and the Authority deliberated on the matter and observed the following:

1. The expenditure incurred 240.97crores (as mentioned in CTE order No.4817/IND-II-NOC-5324 dated 31.03.2017) which is not 50% of the total project cost of Rs. 588.90 crores as per MoEF & CC, Gol Notification S.O.1247(E) dated 18.03.2021 criteria.

The issues raised in public hearing is not addressed by the present PP in the EIA/EMP report.

3. The coal linkage & 100% fly ash utilization plan is not in accordance with MoEF & CC guidelines/circulars issued.

4. As per the IRO certified compliance report on 23.01.2023, there is a number of non-compliance of

the previous EC conditions.

Revised water balance chart and correction of STP/ETP-300 KLD.

The Authority decided to defer the proposal and ask the PP to clarify the above points.

Now the PP has submitted the required ADS for consideration of EC.

Whether SEAC recommended the proposal - Yes, in its meeting held on 17.02.2023, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions in addition to the following specific conditions:

The proponent shall convert the land for industrial use purpose.

ii) The Wildlife Conservation Plan shall be prepared at the cost of user agency and vetted by the Chief Wildlife Warden for protection of Schedule-I species present in the study area if any. The progress of its implementation shall be submitted.

iii) The proponent shall use surface water sourced from Birupa river after obtaining permission from

concerned authority.

iv) The proponent shall adopt Zero Liquid Discharge (ZLD) concept as proposed.

v) The proponent shall explore the possibilities for use of Biomass for power generation.



Decision of Authority:

After detailed deliberation in the matter, the Authority decided to grant EC with the following specific conditions and other conditions as recommended by SEAC.

- (i) The Authority observed as per certified compliance report of Regional Office of MoEF & CC, Bhubaneswar dated 09.04.2013 on the status of conditions stipulated in the environmental clearance (EC) Order stated that the project construction for 2 ×30 MW power plant project stated in November. 2011. 90% of the Unit-1 & 85% of Unit-II of the power plant have been completed. In view of this report of the RO, MoEF & CC, Bhubaneswar, the Authority concluded that 50% of the project work has been completed. Therefore, no further Public Hearing is required.
- (ii). With respect to issues raised in the public hearing, the PP shall submit full compliance along with expenditure statement after including the same in the EIA & EMP report which needs to be revised within a period of six months. Failure to comply with this, the EC will be liable for revocation.
- (iii). The PP to implement the MoEF & CC circular/guidelines in respect of coal linkage and fly ash utilization as per their submission vide letter dated 22.04.2023.

(iv). The PP to submit a certified compliance report from IRO, BBSR within six months from the date of operation of the unit.

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APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

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AGENDA NO.116.03				
Proposal No.	SIA/OR/MIN/405308/2022			
Date of Application	25.11.2022			
File No.	405308/98-MINB1/11-2022			
Project Type	EC			
Category	BI			
Project/Activity including Schedule No.	1(a)-Mining of Minerals			
Name of the Project	Proposal for EC for Enhancement in Production of Iron Ore from 3,00,300 (0.3 million) TPA to 7,00,005 (0.7 million) TPA ROM with total excavation of 1.024 million TPA (ROM of 0.7 million TPA + 0.324 million TPA waste), Setting up two mobile Crushing of 150 TPH capacity each and two mobile Screening units of 250 TPH capacity each in Adaghat Iron Ore Mines over an area of 15.074 ha. of M/s National Enterprises in Village- Adaghat under Block & Tehsil Koida, Subdivision- Bonai in District Sundargarh			
Name of the company/Organization	Applicant: M/s National Enterprises. Sri.Charanjit Singh Grewal; Proprietor			
Location of Project	In Village- Adaghat under Block & Tehsil Koida, Subdivision- Bonai in District Sundargarh			
Name of the Consultant	M/s Centre for Envotech and Management Consultancy Pvt. Ltd., Bhubaneshwar			

Proposal in brief:

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.

- This proposal is for environmental clearance for enhancement in production of Iron ore from 3,00,300 (0.3 million) TPA to 7,00,005 (0.7 million) TPA ROM with total excavation of million TPA (ROM of 0.7 million TPA + 0.324 million TPA waste), setting up two mobile crushing of 150 TPH capacity each and two mobile screening units of 250 TPH capacity each in Adaghat Iron ore mines over an area of 15.074 Ha. of M/s National Enterprises in village- Adaghat under Block & Tahasil: Koida, Subdivision-Bonai in District: Sundargarh of Sri Charanjit Singh Grewal.
- Mining lease for iron ore was granted in favour of M/s National Enterprises for 20 years vide letter (ii) no. 12730/SM dated 20.10.2000 of Dept. of Steel & Mines, Govt. of Odisha. Later as per MMDR Amendment Act, 2015, the lease deed was executed for entire lease area over 15.074 ha. on 11.01.2017 for a period of 50 years from the date of execution.
- (iii) Modified mining plan was approved by Regional Controller of Mines, Indian Bureau of Mines vide letter no- MPM/OTF-MECH/14-ORI/BHU/2010-11, dated 27-09-2010.
- (iv) 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/22- ORI/BHU/2020-21, dated 09-11-2020.
- The entire Mining Lease area of 15.074 ha. is in DLC forest land. Stage-II clearance for the forest (v) land involved in the lease area has been issued by the Eastern Regional Office, Bhubaneswar of

- the MoEF& CC vide letter no. 5-ORC256/2015-BHU, dt. 05.08.2019 for 15.074 ha. forest land, including safety zone of 1.40 ha.
- (vi) <u>Certificate</u> under Forest Right Act has been issued by the Collector, Sundargarh for the forest land of 15.074 ha. in two phases.
- (vii) As per the report of the DFO, Bonai Forest Division, there is no violation under FC Act, 1980.
- (viii) Due to presence of Indian Elephant & Sloth Bear (Schedule- I species), Site Specific Conservation Plan has been prepared with a budgetary provision of Rs 290.40 lakhs; which has been approved by the PCCF (Wildlife) vide Memo no. 4763/1WL(C)SSP-348/2012, dt 12th May, 2014.
- (ix) Adaghat Iron Ore Mines has <u>Environmental Clearance</u> from SEIAA, Odisha vide letter no. 7695/SEIAA, dated 24.12.2019 for production of 3,00,300 (0.3 million) TPA of iron ore.
- (x) Consent to Operate has been issued by SPCB, Odisha for the same quantity vide letter no. no. 4943/IND-I-CON-6689, dated 29.03.2022, valid upto 31.03.2023.
- (xi) Certified report on previous EC conditions was obtained from MoEF&CC, IRO, Bhubaneswar vide file no. 1083/22/EPE, dt 07.10.2022.
- (xii) The present lessee has started the mining operation within the lease area for production of iron ore with effect from 04.01.2020. Now, the lessee has planned to enhance the produce of iron ore to maximum ROM of 7,00,005 (0.7 million) TPA (5,47,830 TPA of +55% grade iron ore and 1,52,175 TPA of +45 to +55% grade iron ore) with total excavation of 10,24,625 (1.024 million) TPA (ROM of 7,00,005 TPA + 3,24,620 TPA of waste) and setting up two mobile Crushers of 150 TPH capacity each & two mobile Screening Plants of 250 TPH Capacity each within the lease area.
- (xiii) Location and connectivity: The project is coming under village Adaghat of Bonai Sub-division in Sundargarh District and is at a distance of 8km from Koida town. The ML area is covered under the SOI toposheet No. 73 G/5 and the geo coordinates are Latitude- 21° 55' 25.22002" N to 21° 55' 43.04502" N and Longitude 85° 19' 07.43920" E to 85° 19' 48.30132" E. The project site is at a distance of 290km from Bhubaneswar; 28 km from Barbil railway station, 36km from Barsuan railway siding and 11km from Jaroli railway station & siding on Daitari-Bansapani line. Nearest airport is Veer Surendra Sai Airport, Jharsuguda at 180km away.
- (xiv) Drainage system of the area is dendrite type. The SunaNadi is a tributary of Baitarani River which controls the drainages system of the area and flows due north in the region and then east to meet the Bay of Bengal. Apart from Suna /Kundra river, other major river /nala are Teherai nala (in South direction, 3km away), Kakarpani nala (in East direction, 4km away) and Karo river (in NW direction, 7.8km away).
- (xv) There is no human settlement within the ML area. The area does not have any monuments of historical or archeological importance, pilgrimage, any place of tourist interest, national park, bird or wild life sanctuary.

(xvi) The Geological Reserve within the lease area is re-estimated to be 4.188 million tons whereas the Mineable Reserve is 3.949 million tons and production of mines as per given table:

Production Year	Total Exca- vation in MT	ROM in MT	Saleable Ore in MT	Mineral Rejects in MT	Intercalated Waste in cum
1 st Year (2021-22)	4,39,603	3,00,323	2,35,035	65,288	69,640 (1,39,280 MT)
2 nd Year (2022-23)	4,59,298	3,13,778	2,45,565	68,216	72,760 (1,45,520 MT)
3 Year (2023-24)	6,12,060	4,18,140	3,27,240	90,900	96,960 (1,93,920 MT)
4 th Year (2024-25)	7,87,840	5,38,200	4,21,200	1,17,000	1,24,800 (2,49,640 MT)



5 th Year (2024-25)	10,24,645	7,00,005	5,47,830	1,52,175	1,62,320 (3,24,640 MT)
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(xvii) Mining Process: Open cast mechanized method of mining on single shift basis is proposed to excavate iron ore to gradually achieve the production target. Drilling and blasting will be adopted for loosening of hard rock mass by rock drill. Ore to waste ratio is 1: 1.5 (both in cum).

(xviii) Topography: Applied mining lease area is mainly dominated by the hill slopes and belongs to a part of a NW-SE trending hill. North-eastern part of applied area is comparatively flat than southwestern part. The altitude of the highest part of the area is 635m RL while that of the lowest part is 560m RL. The elevation difference is 75m. Forest growth is observed to be sparse in the places of in-situ iron ore exposures and dense on the float ores. A part of the area around float quarry and mine road is free from forest growth.

Green belt: During the conceptual period, 18280 nos. of plants will be planted on the backfilled area of 11.424 ha., which includes 2240 plantation as bench plantation over exhausted benches of 1.4 ha. Apart from it, 1.4 ha. of the conceptual dump area will be terraced & plantation will be developed on each terrace; 0.25 ha. of mineral separation area will also be covered under

plantation.

Water requirement: The maximum water requirement in the project will be 30 KLD; which will (xx) be drawn from Suna River with required permission. Out of the 30 KLD water, 2 KLD will be used for drinking and washing purposes, 25 KLD for dust suppression in haul road, screening & crushing area and 3 KLD will be consumed by plantation.

Power requirement: The supply of electrical energy for the mine site shall be received from (xxi) CESCO. The approximate maximum power requirement for the mining complex (including

office) shall be 500KVA.

(xxii) Public Consultation: Public Hearing for Enhancement in Production from Adaghat Iron Ore Mines was conducted on 21.12.2021 at 11.00 A.M. in the open ground, near Hanuman Temple in Adaghat village in accordance with the MoEF, Govt. of India, EIA Notification No.SO-155 3(E) dt.14.09.2006. As per the demands, the project proponent has committed to take dust control measures, undertake plantation, give priority to local employment, to make concrete village road, provide bore well for drinking water, electrification of village road, etc. Rs 16 lakhs will be spent under CER for various socio-economic activities, whereas Rs 5 lakhs will be spent annually towards regular maintenance & recurring activities.

(xxiii) Baseline study of the study area was conducted during Summer season (March 2021 to May 2021). Following results were obtained:

Ambient Air Quality Monitoring made in 8 locations & results shows the values of PM10 - $60.8 \ \mu g/m^3 - 81.3 \ \mu g/m^3$, $PM_{2.5} - 31.9 \mu g/m^3 - 42.5 \mu g/m^3$, $SO_2 - 5.8 \mu g/m^3 - 12.9 \mu g/m^3$. $NOx - 10.4 \mu g/m3 - 18.8 \mu g/m3$.

 Noise Quality ranges from 40.2 dB(A) – 71.5 dB(A) during day time and 35.6 dB(A) – 42.3 dB(A) during night time.

- Surface water quality monitored in 5 locations and pH range from 7.21 to 7.94., total dissolved solids - 144.8mg/L to 171.6 mg/L, Iron content ranges from 0.32 mg/L to 0.42 mg/L, Chloride content ranges from 31.9 mg/L to 34.9 mg/L, sulphate content ranges from 6.4 mg/L to 8.6 mg/L, BOD content ranges from 2.8 mg/L to <2.0 mg/L, Fluroide content ranges from 0.12 mg/L to 0.21 mg/L, Nitrate content ranges from 2.9 mg/L to 5.2 mg/L. Total coliforms ranges from 270 MPN/100ML to 1600 MPN/100ML. All other parameters were also found to be within the permissible limits.
- Ground water quality monitored in 5 locations and pH ranges from 6.72 to 7.22., total dissolved solids ranges from 248mg/L to 294 mg/L, total Hardness as CaCO3 ranges from 130 mg/L to 152 mg/L, total alkalinity ranges from 106 mg/L to 132 mg/L. Iron content ranges from 0.23mg/L to 0.26 mg/L, Chloride content ranges from 31 mg/L to 41 mg/L.

sulphate content ranges from 21.7 mg/L to 29.1 mg/L, Fluroide content ranges from 0.11 mg/L to 0.27 mg/L, Nitrate content ranges from 2.1 mg/L to 4.1 mg/L. Magnesium content ranges from 10.21 mg/L to 13.12 mg/L. All other parameters were also found to be within the permissible limits.

 Soil quality measured in 5 locations and color of soil found to be reddish brown, texture of soil is sandy loamy, moisture content ranges from 5.4% to 8.2%, pH ranges from 5.84 to 6.31, Available Organic carbon (%) – 1.11 to 1.62 etc.

(xxiv) Land Use/ Land cover - The land utilization plan as per the table:

Type of land use	Existing Land use (in ha.)	At the end of Plan Period (in ha.)	At the end of Conceptual Period (in ha.)
Area under excavation	1.860	8.264	11.424
Overburden dump	0.100	1.30	1.40
Mineral storage	0.500	SEE.	
Infrastructure (office, canteen, rest shelter, weigh bridge, etc)	0.200	0.200	0.200
Road	0.200	0.200	0.400
Green belt in safety zone	0.400	1.000	1.400
Mineral Separation Plant	0.250	0.250	0.250
Sub-Total	3.510	11.214	15.074
Untouched area	11.564	3.860	(+++
Total	15.074	15.074	15.074

(xxv) Manpower: All total 59 persons will have direct employment in the mines after proposed enhancement in production, which includes managerial /supervisory staff.

Project Cost: The project cost is estimated to be Rs 9 crores and there is a budgetary provision of Rs 135 lakhs as capital cost & Rs 40 lakhs as annual recurring cost towards environmental protection measures; which includes air pollution control measures like Installation & maintenance more Automatic Sprinklers, Purchase & maintenance of one more water tanker & machineries for water sprinkling, etc; water pollution control measures like Construction & maintenance of boulder wall and garland drain, Modification of existing settling ponds & it's collecting drains, Desilting of pond & drains, etc, noise pollution control measures training to employees, maintenance of vehicles, etc, Environment Monitoring and Management, Occupational Health and Green Belt Development and Maintenance.

(xxvii) The proponent along with the consultant M/s Centre for Envotech and Management Consultancy Pvt. Ltd., Bhubaneshwar, made a detailed presentation before the SEAC on 12.12.2022.

(xxviii) The PP submitted ADS to SEAC and the proposal was considered for EC on 20,02,2023.

(xxix) The proposed site was visited by the sub-committee of SEAC on 18.01.2023. Following are the observations of the sub-committee:

- It was observed that the excavation is being carried out in two quarries. The stripping ration being very low, a small quantity of over burden (OB) has been generated, which is storied in the OB dump located in the North western part of the lease. As per mine management, the small amount of top soil generated is utilized in the plantation carried out in dumps and mine boundary.
- The runoff generated from the quarry areas goes to the deep most part of the quarries and percolates underground.
- Two settling ponds have been constructed in the North-West and North-East corners of the lease to store the runoff from areas. Drains have been provided to channelize the runoff to both the sumps. It was felt that the size of the settling ponds is small and may not be adequate



to store the runoff generated during heavy rainfall in the monsoon season. Moreover, the settling pond in the North-west corner is very close to the OB dump, which may cause instability of the dump in future. It is advised that settling pond may be relocated to a convenient location away from the OB dump. Moreover, the sizes of settling ponds are required to be determined based on available past rainfall data.

 The mine management was advised to carry out the slope stability study of the OB dumps, even though the OB dump is very small at the moment. With enhanced production, the size of the OB dump will increase, and thus it is desirable to implement the suggestions of the

scientist study to ensure its stability against failure.

The existing mobile screening units have been provided with water spraying arrangement
to prevent the dust from getting air borne. The mine management was advised to explore
the possibility of replacing the nozzles with the ones that will produce fine atomized spray
instead of coarse water droplets.

(xxviii). Any deficiencies/omission have been noticed in the above documents- Nil

The proposal was placed in the 113th meeting of SEIAA and the Authority observed that certified as per compliance report dated 07.10.2022 of IRO, Bhubaneswar, the PP has not complied with a number of stipulations in the original EC. The Authority decided to defer the proposal and issue show cause to PP why the EC shall not be revoked for non-compliance of earlier EC conditions.

Now the PP has submitted the required ADS for consideration of EC.

Whether SEAC recommended the proposal – Yes, in its meeting held on 20.02.2023, the SEAC recommended for grant of Environmental Clearance with stipulated conditions and following specific conditions.

- The proponent shall utilize different grades of iron ore (ROM) and waste generated according to IBM guidelines.
- The proponent shall carryout compensatory afforestation for the project site.

(iii) The proponent shall adopt additional measures for dust suppression.

(iv) Conversion of Gochar / Grazing land if involved in lease area shall be made before going for mining activity.

(v) Rainwater harvesting structures shall be implemented.

- (vi) The lessee shall take adequate safeguard measures to ensure the free flow of the nearby tributaries/nallahs if any.
- (vii) The EC is limited to secondary crushing and screening operations (dry process) as per approved mining plan. Under no circumstances, the lessee shall carry out any beneficiation activity (wet process) of low grade ore.
- (viii) All the ores (45-55) and +55 grades shall be used and ores & rejects shall be transported as per approved mining plan for their use. Only temporary stacks shall be operated. The mine shall avoid segregation & generation of fines and flow of silt during rainy session.
- (ix) Green processes like controlled drilling, Environment friendly blasting, safe transportation and conveying, silt-management shall be followed as per guidelines.
- (x) The settling pond shall be relocated to a convenient location away from the OB dump. The sizes of settling ponds shall be determined based on available past rainfall data.
- (xi) The mine shall explore the possibility of replacing the nozzles with the ones that will produce fine atomized spray instead of coarse water droplets.

The mine shall carry out the slope stability study of the OB dumps for the enhanced production capacity.

Decision of Authority:

The proposal was placed in the 113th meeting of SEIAA and the Authority observed that certified as per compliance report dated 07.10.2022 of IRO, Bhubaneswar, the PP has not complied with a number of stipulations in the original EC. The Authority decided to defer the proposal and issue show cause to PP why the EC shall not be revoked for non-compliance of earlier EC conditions.

Now the PP has submitted reply to the show cause notice dated 04.04.2023 of SEIAA, Odisha vide their letter dated 21.04.2023. The reply is not in compliance to the conditions of original EC, except an undertaking. The original EC dated 24.12.2019 contains 63 conditions. The certified compliance report furnished by MoEF & CC, IRO, Bhubaneswar vide their file no. 109-1083/22/EPE after inspecting the site on 06.05.2022 shows that out of 63 EC conditions, 13 no. are fully complied, 34 no. are partially complied, 11 no. are not complied and 5 no. are not applicable even after 03 years.

Further, SEIAA, Odisha by email received a petition on 27.03.2023 from the villagers in the Malda G.P. mentioning that issued relating to FRA and development of the villages as per the agreement are yet to complied with by the PP.

In view of this, the Authority decided to reject the proposal for enhancement in production of Iron ore from 0.3 MTPA to 0.7 MTPA.

APPROVED BY

Member Secretary, SEIAA

Chairman, SEIAA

AGENDA NO.116.04				
Proposal No.	SIA/OR/MIS/78819/2022			
Date of application	25.06.2022			
File No.	78819/94-MIS/06-2022			
Project Type	EC(expansion with modification)			
Category	B1			
Project/Activity including Schedule No.	8(b) Townships and Area Developme projects.			
Name of the Project	Proposal for grant of EC for Expansion of Modification of "ARIANA", Multisto Residential complex at Mouza- Sankar Bhubaneswar, District Khorda,			
Name of the company/Organization	Kriday Realty Private Limited Applicant: Siddhartha Roy; Genera Manager - Projects			
Location of Project	At Mouza- Sankarpur, Bhubaneswar, Odisha td. at Mouza- Patia, of Bhubaneswar Municipal Corporation in the Development plan area of Bhubaneswar District Khorda			
ToR Date	29.04.2022			
Name of the Consultant	M/s Visiontek Consultancy Services Ltd., Bhubaneswar			

Proposal in brief:

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.

 The proposal is for Expansion with Modification of "ARIANA", Multistoried Residential complex over a built up area-58788.51 sqm at Mouza- Sankarpur, Bhubaneswar, Odisha of Bhubaneswar Municipal Corporation in the Development plan area of Bhubaneswar District Khorda for M/s.Kriday Realty Private Limited of Sri Siddhartha Roy.

2. The project falls under category "B" or activity 8 (a)-Building & Construction projects under EIA

Notification dated 14th September 2006 as amended from time to time.

 M/s Kriday Realty Private Limited has proposed for expansion with modification of Residential Project "TATA ARIANA" located at Mouza - Sankarpur, Bhubaneswar in the district of Khurda in Odisha.

 The project has been granted prior environmental clearance vide letter no - 1997/SEIAA on dated 24th April 2013 for construction of 12 Towers having total construction area of 1,85,176.33

m2 (including Basement) 132395.7 sqm (Excluding Basement area).

 Later due to PPP agreement expired in the year 2017 & Extension of Time (EoT) received only in December 2021 from BDA building revised proposal for expansion and modification was submitted and recommended for the ToR.

 Based on the same ToR was granted vide Letter No. SEIAA-File No- File No.76188/83-MIS/04-2022 dated 29.04.2022 for Expansion and Modification of Residential Project "TATA ARIANA

" for total plot area of 12 Acre or 48575.31 sqm.

7. Location and Connectivity – The proposed site is located at Mouza- Sankarpur, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site are Latitude: 20°15'47.40"N & Longitude: 85°45'22.72"E. The site is very near to NH 5 is approx. 0.92km. The nearest railway station is Bhubaneswar Railway Station approx. 9.3 km from the project site. Biju Patnaik International



Airport is at a distance of approx. 7km from the project site. Chandka-Dampara Wild Life Sanctuary is about 7.71km. Nandankanan Wild Life Sanctuary is about 14km.

8. The site is coming under Bhubaneswar Municipality area.

The residential population of the project will be 2392 persons after 100% completion. The
population for the project is estimated at 2392 permanent, 316 visitors, and 1133 in retail, Club &
Town admin building etc.

10. The Current Status of building Project:

S. No.	Project Activity	Details	Work completed so	Work Yet to be completed
i)	Plot Area	Total Plot Area: 48575.31 sqm. (12.00 Acre/ 4.857531 Ha), In Possession-201537.49 sqm		
ii)	Ground coverage	9,977.279 (20.5%)	6918.703 (14.2%)	3058.576 (6.3%)
iii)	Road Area	8075.162		
îv)	Green belt (plantation area)	9997.585		
v)	Green belt above Podium	8195.295		
vi)	Service Area	515.522		
vii)	Swimming Pool	269.383		
viii)	open parking area	5800.365		
ix)	Proposed FAR	Permissible -2,75 Proposed – 2,749		
x)	Built Up Area	EC obtained for 12 Towers with built-up area of 1,85,176.33 m ² (including Basement) & 132395.7 sqm (Excluding Basement area)		
		The total built-up area after modification will be decreases from 1,85,176.33 m ² (including Basement) to 171593.75 m ²	sqm (Excluding	Proposed built up area-58788.51 sqm
xi)	Landscape Area Total Green belt	18192.88 sqm (37.5 %)	Green belt (plantation area 9997.585 sqm	
	(plantation area) 20.6 % Green belt above Podium 16.9 %		Green belt above Podium 8195.295 sqm	
cii)	Parking Area 30 % percentage of total built-up area	Total parking area - 41,685.917	Existing 8 Towers = 24377.318 Sqm (31% of Built up	Proposed 4 Towers & = 17308.599 Sqm (30% of Built up

	towards FAR		area)	area)
xiii)	Maximum height of building	66 m	-(G+13, G+14, G+15 & G+16) -51 m	Proposed – (G+21)-66 m
xiv)	No. of Units	1210 nos.	792	418 Total no of L.I.G. Flats=244 nos (Which is more than 20% of total nos. of Flats)
xv)	Total project cost	· 557 Cr	346 Cr	'211

- 11. Water Requirement During Operation phase the total water requirement for proposed 4 towers is approx. 323 KLD (domestic + flushing), out of which total domestic water requirement for residential is 215 KLD, flushing water is 108 KLD. The total fresh water requirement is 215 KLD (daily basis for residential blocks for domestic requirement). It is expected that the proposed additional 4 towers will be generate approx. 269 KLD (80 % of wastewater from residential and club area. The wastewater will be treated in a STP having capacity of 860 KL (provided for Existing and proposed sewage water Treatment) provided within the complex generating 215 KLD of recoverable treated waste water from STP which will be recycled within the project. During dry season there it will be follow zero discharge of surplus treated wastewater and 140 KLD will become surplus in monsoon season and will be discharged into municipal sewer. Sewerage treated water can be used in Toilet Flushing & Irrigation to reduce the load on fresh water.
 - Therefore, the total fresh water requirement is approx. 895 KLD (Existing +Proposed+ visitor and retail area etc.), out of which total domestic water requirement for residential is 589 KLD, flushing water is 306 KLD. The total fresh water requirement is 589 KLD (daily basis for residential blocks for domestic requirement).
- 12. Total no. of Rainwater Harvesting pits 08 nos for the project.
- 13. Power Requirement The overall maximum demand is approximately 4384.49 kW or 6000kVA at power factor 0.9. It is proposed to have Grid supply at 33KV from Electricity Supply Company. It is proposed to have 100% Power Backup for Common Area Services and limited for each flat. The Back-up power shall be provided by 415 Volt DG Sets. Total Backup power load is 3530 KVA which will be met by 3 nos. 1010 kVA, 1 no. 500 KVA 415 DG sets. Solar Power proposed for 4 towers is 100KW.
- 14. Solid waste Management During operation phase, waste comprise of municipal waste majorly. Total waste generation after overall development of the project is estimated to be 3381 kg/day. Waste will be segregated into recyclable, compostable and inert waste. Apart from this E-waste will be generated from the project site. Hazardous waste to be generated from site is used oil only from DG sets. Presently, total solid waste generation is about 1.196 T/day. However, it is envisaged to be 3.8 T/day after 100% completion and operation of the project. The Municipal Solid Waste Management will be conducted as per the guidelines of Solid Waste Management Rules, 2016.
- 15. Green Belt The project has been well planned to have sufficient open space and green coverage. The green area comprises of evergreen, tall and ornamental trees and ornamental shrubs inside the premises. The green area has been developed over total green area measuring 18192.88 sqm (37.5 %) has already been developed. The biodiversity in the area will improve due to the proposed green cover. Evergreen tall and ornamental trees and ornamental shrubs will be planted inside the premises.

Parking Details – Total Parking Area Provided - 41,685.917Sqm. (Existing 8 Towers = 24377.318 Sqm (31% of Built up area) & Proposed 4 Towers= 17308.599 Sqm (30% of Built up area).

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17. Rain Water harvested through 08 nos. of Rain Water recharging pits. .

 Fire fighting Installations: Fire fighting 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.

 The project cost is 577 crores in total out of which for existing building is 327 crores and for proposed building is 250 crores. Environmental Monitoring Programme Cost Capital and recurring

cost towards EMP will be Rs. 2058.75 lakhs and 429.9 lakhs/annum respectively.

 The project proponent along with the consultant M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswarmade a detailed presentation on the proposal on 03.08.2022.

The proposed site was visited by the sub-committee of SEAC on 09.11.2022. Following are the
observations of the sub-committee and proponent needs to submit relevant documents as below:

- i) No construction has been made in the proposed phase except the basement. PP and Consultant were present. PP informed that the basement approval for all 3 phases were taken earlier (PP informed to submit document). Similarly, the STP has already been installed for all 3 phases as informed by PP. Thus, calculation sheet justifying the capacity to be submitted.
- ii) Solar power (roof top) has not been installed for earlier 2 Phases, PP informed that the same was not a requirement while the approval for the earlier 2 phases were taken. However, the solar power installations will be done for the current phase and details will be submitted.
- A drain is existing as shown by PP, thus NOC from BMC for draining excess treated water to be taken before construction.
- iv) Stack height to be enhanced as committed in the proposal, as current height is less than Phase 3 building height.
- The Sub-committee of SEAC recommended EC subject to above conditions and submission of documents /compliances as asked by the committee during presentation.
- The proponent has submitted the compliance as requested earlier and it has also been mentioned above.
- 24. The proposal was placed in 109th meeting of SEIAA, Odisha and After detailed deliberations, the Authority decided that the proposal be referred back to SEAC with the following observations:
 - (i) As per MoEF & CC, Govt. of India circular F.No. J-11011/618/2010-IA-II(I) dated 30.05.2012, application for expansion project receipt without a certified report of the status of compliance of the conditions stipulated in the environmental clearance for the ongoing/existing operation of the project by Integrated Regional Office (IRO) of MoEF & CC, Bhubaneswar, the EC shall not be accepted and placed for consideration before the SEAC. In this case, the certified compliance report of EC condition attached at annexure-6 is not certified by IRO, MoEF & CC, Govt. of India.

(ii) The SEAC is requested to give their considered view on each of the point of EC conditions after examining the certified compliance report of IRO, MoEF & CC.

- (iii)The project has been granted prior-EC vide no. 1997/SEIAA on dated 24th April 2013 for construction of 12 Towers having total built up area of 1,85,176.33 Sq. mt. (including Basement, for Phase-I & Phase-II) and 132395.7 sqm (Excluding Basement area for Phase-I & Phase-II). Further, the CTO issued vide order no. 2866 with letter no. 1238 dated 30.01.2019 by OSPCB have been granted for the same area. Whereas, the PP has now applied the proposal for expansion of existing-79458.56 Sqm (Excluding Basement) & 112805.24 Sqm (Including Basement)) area to Proposed new built-up area-58788.51 sqm (as expansion). The discrepancy between CTO issued and work completed may be clarified.
- (iv) The EC dated 24.04.2013 was issued by SEIAA, Odisha for 5 years based on undertaking that the storm water of quantity 770 cum/hr to be discharged through the peripheral drain of M/s. Trident properties Ltd. The BDA will acquire and construct the storm water drain of approximate length 180 meter for which the PP shall bear the cost of the drain as conditions



mentioned the BDA letter no. 109/EM/BDA dated 11.02.2013. The present position and status of the storm water drain may be verified from field.

Any deficiencies/omission have been noticed in the above documents-Nil 25.

Whether SEAC recommended the proposal - Yes. The proposal was placed in the SEAC meeting held on 13.01.2023 and the SEAC have recommended for grant of Environmental Clearance valid for 10 years with standard stipulated conditions in addition to the following specific conditions.

Project Proponent informed that the basement approval for all 3 phases were taken earlier. Similarly, the STP has already been installed for all 3 phases as informed by Project Proponent. Project Proponent shall submit copy of basement approval for all 3 phases and calculation sheet justifying the capacity for all 3 phases before issue of Environmental

The Proponent before implementation of the project shall convert the land to Gharabari and shall ii)

take the ownership of the land if not already taken.

The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the iii) appropriate authority for disposal of excess STP treated water 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

The proponent shall use solar energy atleast to the tune of 5%of total power requirement as iv)

proposed.

To reduce discharge of treated water to open drain, the proponent shall use more water for V) 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.

The proponent shall implement the Pollution Control Measures and safeguards as proposed in vi)

the Environment Management Plan (EMP) of project report.

The proponent shall Comply to the provision of structural stability certificate as per the bye-law vii)

of the Development Authority.

When the public water supply will be available adjacent to/ in the vicinity of the proposed project viii) in future, the PP shall avail it following due procedure of the Govt if the concerned authority agrees and dispense with the drawl of ground water except one borewell for emergency purpose. The PP shall take up suitably for the purpose with the concerned authority of the Government.

The PP shall adhere to terms of Agreement with BDA ix)

All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to x) all the conditions/ specific conditions of EC.

Again, the proposal was placed in SEAC meeting held on 27.03.2023 and the committee opinion that

a. Since, this is an ongoing project, the PP has to comply the as pointed out in lapses issued by the MoEF&CC, Govt. of the certified compliance report as per instruction India in their letter dated 14.03.2023. Further, certified compliance is required and PP to submit. Here, SEIAA henceforth should forward the applications to SEAC only if such a document is submitted by PP as this is a requirement in such types of projects. This will avoid delay.

Reply of the proponent is convincing.

c. The committee visited and witnessed the drain that was connected to Trident drain and necessary documents including NOC were sought for discharge of storm water from the authority. However, documentary evidence like: agreement with Trident, BDA/BMC letter and its reply giving the consent to deposit the money for the final drain and the status of the same can be asked to PP (if not submitted earlier). The structured drain beyond Trident was to be developed / constructed after land acquisition by BDA/BMC

and money to be deposited by PPs on getting the demand for the same. Thus, status of the same may be obtained in the form of documentary evidence instead of one more site visit as it is beyond the scope of the current project site.

Finally the committee recommended the additional condition:

a) The proponent shall comply to the lapses as pointed out in the certified compliance report to the earlier EC conditions as per instruction issued by the MoEF&CC, Govt. of India in their letter dated 14.03.2023.

Decision of Authority:

The authority perused the recommendation of SEAC and submission of PP vide their letter no. Nil dated 05.09.2022. The following are the observation:

The PP was granted EC vide letter no. 1197/SEIAA dated 24.04.2013 which was valid for 10 years i.e upto 23.04.2023.

 The EC issued for 12-Towers having a total built-up area of 1,85,1776.3 sq.m and Consent to Operate (CTO) has been obtained for the same area. There is no information regarding the builtup area for which occupancy certificate has been obtained. At present, there is no scope of further EC unless the CTO /occupancy certificate is revised.

The undertaking given by the PP while obtaining the EC dated 24.04.2013 regarding discharge
of storm water quantity of 770 cum/hour has not yet been fully complied with. Any further
addition of dwelling unit only leads to increase in storm water quantity without proper

arrangement for discharge.

4. The original EC dated 24.04.2013 contains 50 conditions. The certified compliance report furnished by MoEF & CC, IRO, Bhubaneswar vide their file no. 109-1145/EPE after inspecting the site on 13.01.2023 shows that out of 50 EC conditions, 19 no. are fully complied, 20 no. are partially complied and 11 no. are not complied even after 10 years.

In view of the above, the Authority decided to reject the application for Expansion with Modification of "ARIANA", Multi-storeyed Residential complex at Mouza- Sankarpur, Bhubaneswar, District Khorda,

Har

The PP may apply afresh after obtaining revised CTO and occupancy certificate with full compliance of previous EC conditions.

APPROVED BY

Member Secretary, SEIAA

Member SEIAA

AGEND	A NO.116.05
Proposal No.	SIA/OR/MIN/409777/2022
Date of application	08.12.2022
File No.	409777/767-MINB1/12-2022
Project Type	New proposal for EC
Category	Bl
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal is for Environmental Clearance of M/s Rungta Mines Ltd. for the Jumka Pathiriposhi Pahar Iron Ore Block which has been allotted through auction. The total excavation will be 3.98 MTPA (ROM Iron Ore: 3.35 MTPA + waste: 0.63) by opencast mechanized method over a mining lease area of 158.509 ha. (Govt. forest land is 156.978ha, and Private land is 1.531ha.) located in villages - Batagaon ,Kensara Of Lahunipara Tahasil Of Sundargarh District And Village - Kadakala,Banspal Tahasil of Keonjhar district, Odisha of Sri Hirak Mazumder.
Name of the company/Organization	M/s Rungta Mines Ltd.
Location of Project	Villages- Batagaon ,Kensara Of Lahunipar Tahasil Of Sundargarh District And Villag – Kadakala,Banspal Tahasil of Keonjha district, Odisha
ToR Date	08.02.2022
Name of the Consultant	M/s. Centre for Envotech Pvt. Ltd.

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 Environmental Clearance of M/s Rungta Mines Ltd. for the Jumka Pathiriposhi Pahar Iron Ore Block which has been allotted through auction. The total excavation will be 3.98 MTPA (ROM Iron Ore: 3.35 MTPA + waste: 0.63) by opencast mechanized method over a mining lease area of 158.509 ha. (Govt. forest land is 156.978ha. and Private land is 1.531ha.) located in villages - Batagaon ,Kensara Of Lahunipara Tahasil Of Sundargarh District And Village -Kadakala, Banspal Tahasil of Keonjhar district, Odisha of Sri Hirak Mazumder.

(ii) The project falls under category "B" or activity 1 (a) - Mining of Minerals projects under EIA Notification dated 14th September 2006 as amended from time to time.

(iii)Project Details: M/s Rungta Mines Ltd. was declared as the "Preferred Bidder" for Jumka Pathiriposhi Pahar Iron Ore Block, as per auction conducted by Government of Odisha. The block covers 158.509 ha of land falling in villages Batagaon, Kensara (also known as Kedeshala) in Sundargarh District & village Kadakala in Keonjhar District of Odisha. The Project area comprises of 156.978 Ha, forest land and 1.531 ha non forest government land. The project area is presently



a virgin land.

- (iv)TOR details: Jumka Pathiriposhi Pahar Iron Ore Block has been awarded Terms of Reference (TOR) for preparation of EIA/EMP Report vide MOEF&CC's letter no. IA-J11015/2/2022-IA-II(NCM) dated 18 February 2022.
- (v) Public hearing details: Public hearing was held in two districts in respect of M/s Rungta Mines Ltd. for proposed Jumka Pathriposhi Pahar Iron Ore Block. Public Hearing in Keonjhar district, was held on 09.09.2022 at 11:00 am at Kadakala playground, Khata No. 42 (Rakhita), Plot No.51/314/1, District Keonjhar and in Sundargarh district, it was held on 03.09.2022 at 10:30 am at Football playground, Kensara village, Bhutuda G.P., District Sundargarh. During public hearing, most of the people welcomed the project and raised few points related to generation of employment opportunity, provision of good school & education, water supply facility, establishment of healthcare unit, skill development, etc. Expenditure towards meeting the public hearing cost will come to Rs.264.7 lakhs (capital cost) and Rs. 172.7 lakhs (recurring cost).
- (vi)Location and Connectivity: The proposed Jumka Pathiriposhi Pahar Iron Ore Block is located in villages of Batagaon, Kensara (also known as Kedeshala) in Sundargarh district & village Kadakala in Keonjhar District of Odisha. The mining lease area falls in the Survey of India Toposheet no. 73 G/1 (open series map F45N1). The area is bound by Latitude 21°47'32.62280" N to 21°48'54.81396" N and Longitude 85°12'13.87352" E to 85°13'25.32167" E. The block is connected by all-weather forest road currently and at a distance of 9.7km from Koida Town and 125.2km from District Sundergarh. Nearest railway station is Barsuan, 10.6 km WNW aerially. The nearest civilian airports are situated at Rourkela (64 km, NNW), Ranchi (166 km, N) and Jharsuguda (120 km, W). Nearest Highway is NH - 520, Rajamunda to Rimuli Road-10.3km, N. There are no National parks, Wildlife Sanctuary, Biospheres reserves within 10 km radius. The nearest sanctuary is Simlipal Wildlife sanctuary at a distance of 89.03 km in E direction from the proposed project and elephant Reserve is Mayurbhanj at 58.78 km. There are five reserve forests (Sarkanda R.F. (2.9 km, NW), R.F. Near Anandapur (Bhabari Pahar) (7.8 km, NNE), Khajurdihi R.F. (0.8 km, NE), Khandadhar RF (6.4 km, SW), Torha R.F.(6.0 km, WNW) present within 10 km radius of the project. There is presence of Schedule-I species like Elephant, Indian Monitor Lizard and Sloth bear in buffer zone of study area.
- (vii) Topography: The iron ore block is located on a hill area with undulating topography. Elevation of core zone ranges from 914 m to 1042 m above mean sea level. General gradient of the mine lease area is towards the west with an occasional mound in the northern portion. Jumka Pathiriposhi Pahar Iron Ore Block is free from any mining activity since it is a new mine. However, within the 10 km radius of the project there are several working as well as non-working iron/manganese mines.

(viii) No prominent drainage pattern is developed over the lease hold area. There is no perennial nallah passes through the lease area. The Phulamanali nallah which is 2.6 KM SSW to the lease. The topography of the mine is such that no run off from the lease will meet the Nallah.

(ix) Seismicity: The project is under very feeble to slight intensity Seismic zone II. The project area is not prone to floods, landslides or cloudburst etc.

(x) Status of Statutory Clearances -

- Mining plan is approved from IBM vide letter no. IBM MP/A/18-ORI/BHU/2021-22 dated 24.11.2021.
- ✓ Forest Clearance for 156.978ha. has been applied online vide proposal number FP/OR/MIN/150048/2021 on 10/12/2021 for diversion of 156.978 ha of forest land.
- ✓ Surface Water withdrawal permission has been applied to Water Resources department vide application no. 2022040841000367on dt. 08.04.2022.
- Site Specific Wildlife Conservation Plan is under preparation by Forest Department. Request letter was submitted to DFO Bonai Forest Division, Bonai, vide letter no. RSPL/BBL/GEO/2022-23/ dated 30.05.2022 for preparation and Approval of Site Specific Wildlife Conservation Plan of Jumka Pathiriposhi Pahar Iron Ore Block.



(xi)Total Reserves - The iron ore block is a virgin/ new area. The entire mine lease area is mineralized. The entire resources estimated falls in 331, 332 & 333 category as G2 level. The area has been explored by GSI and MECL through 85 (29 by GSI and 56 by MECL) number of drill holes (5363.1 m) at a spacing of 200 X 200 m. The exploration confirms to G-2 category under UNFC guidelines. The Geological Reserve is 155.864 million tonnes and Mineable Reserves is 140.278 million tonnes while. The production table for 5 year is as follows

Year	Production proposal
st 1 year 2024-25	0
nu 2 year 2025-26	0
ru' year 2026-27 From 27.10.2026 to	(for 156 days/five months only)
tn 4 year 2027-28	3.35
uf 5 year 2028-29	3.35

- (xii) Mining method: Opencast mechanised mining method has been chosen for the proposed Jumka Pathiriposhi Pahar Iron Ore Block. Fully mechanized opencast mining method shall be adopted with excavator, loader, dumpers etc. for excavation work. Height & width of individual benches is proposed to be kept as 10 m and 18 m in ore and 10 m and 12 m in OB respectively. The conventional opencast method with utilization of excavator of capacity up to 4.2 m³, dumpers of capacity up to 30/40 MT, rock-breakers, deep-hole drilling and blasting will be adopted. The overall pit slope would be kept 45°.
- (xiii) Waste Generation and Management During the five year of mining plan period, 481073 cum of waste will be generated. The alluvial soil capping the rock bed is the loosen OB that exists in some part of the block. This will be removed separately and simultaneously used for plantation. Only temporary storage for top soil is proposed. It will be stored on 7.301 ha of land. The maximum height of the OB dump during plan period will be 50 m (wrt 948 mRL on south side) and 20 m (wrt978 mRL wrt the adjoining areas). The top of the OB dump will be at 998 mRL compared to 948 mRL of the adjoining area. The height of the OB dump will be enhanced due to dumping of more and more waste, which will be generated during proposed period of mining after plan period. Although, backfilling is not proposed during initial 5 year plan period, as reserve of iron ore in the proposed quarry will not be exhausted, but after OB dumping on 7.301 ha, the balance waste generated till end of the mine will be used for backfilling.
- (xiv)Life of Mines is 50 years from execution of mine lease.
- (xv) Water requirement: Total requirement of water is estimated at 464 KLD. Out of which, for Drinking purposes, ground water will be used is 94 KLD and surface water will be used for Mining purposes, either from Phulamanali Nala or harvested rain water is 370 KLD. Water will be utilized for green belt development (30KLD), sprinkling on haul roads/dust suppression (24KLD), drinking& domestic purpose in mine, camp outside lease and periphery, High Pressure water jet inCrushing and screening (95KLD) and Miscellaneous (5KLD).
- (xvi)Wastewater management: No wastewater is anticipated from mining activities. Domestic sewage will be treated to the norms prescribed by regulatory agencies prior to reuse. The mine will be zero discharge except during monsoons. The domestic wastewater from facilities in the

