

Six Monthly EC Compliance Report

Period: October-2021 to March-2022

Environment Clearance letter No.: SEIAA clearance letter No.: SEIAA/342, dated. 04.09.2010 & NO.: 3554/ SEIAA, dated. 04.07.2015



**Murgabeda Iron Ore Mines,
Sri. D.R Patnaik**

www.miom-drp.in

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Sl.No.	SPECIFIC CONDITIONS	PRESENT STATUS
1	The applicant (Project Proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, water pollution, noise pollution and land pollution including solid waste management as mentioned by him in form-I, final EIA reports and Environment management Plan (EMP) in compliance with prescribed statutory norms and standards.	<p>The project proponent has taken up adequate preventive measures for prevention and control of different environmental parameters;</p> <p>a. Air pollution Measures: Regular water sprinkling by engaging mobile water tankers, truck wheel wash system, dry fog system in mineral handling plants & plantation,</p> <p>b. Water pollution Measures: Provided settling pond, check dam with garland drains during the monsoon season, preventive and scheduled maintenance of the HEMM are being carried out at regular intervals to avoid/ mitigate any noise induced pollution, de-silting of the surface run off management structures is carried</p> <p>c. Dump Management: At present the solid waste generated i.e. OB/Wastes is very fewer and the generated amount is being utilized for internal road making and its maintenance.</p> <p>d. Environmental Monitoring: Apart from that regular environmental monitoring of different parameters are being carried out as per the MOEF&CC & SPCB guidelines for Air, Water, Noise etc. The photo of the same is enclosed as photo-1,2,3,4&5.</p>
2	The applicant will take necessary steps for socio economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities. After a detailed primary Socio-Economic	The project has carried a need based assessment by engaging a consultant i.e. JANASADHANA. Based on the findings different projects has undertaken in consultation with “ JANASADHANA ” for the socio-economic development of the local people belongs to adjoining villages. A detailed implementation status report of the same is given in Annexure # 1.

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

	survey in core zone and buffer.	
3	The applicant will comply with the points, concerns and issues raised by the people during public hearing on 29th June, 2009 in accordance with the commitments made by him thereon.	We have full-filled the commitment regarding the demands raised during the public hearing and compliance are made as per the commitments. All the public hearing issues has been complied as per the commitment in phased manner like development of peripheral activities i.e. Development/renovation of the Murga Mahadev temple, guard wall all along Nallah, established environment cell, education, drinking water, road, street light, livelihood etc.
4	The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.	Necessary statutory clearances/ approval/ permissions from the concerned authorities have been obtained such as: Consent to Operate from SPCB (Copy attached as Annexure # 02), approved mining plan from IBM(Copy attached as Annexure # 03), Forest clearance from MoEF&CC (Copy attached as Annexure # 04), etc. Wildlife Conservation Plan (Copy attached as Annexure # 05), Ground Water NOC from CGWA (Copy attached as Annexure#06)
5	For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of this Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa on 1st June and 1stDecember of each calendar year.	The Half yearly compliance report is being submitted herewith as per the stipulated time period. Earlier submitted details are attached as Annexure # 7 .
6	The core zone should be monitored intensively with no. of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ of CPCB, Delhi. The detail methodology adopted for analysis of samples shall be cleared	Regular monitoring of AAQ in the core as well as buffer zone of the ML area being done as per the NAAQ's notification. The monitoring locations are established as per SPCB's direction are named in table as Annexure # 8 .The project is also adopting specified methodology for analysis of the

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	indicated	<p>AAQ parameters.</p> <table border="1"> <thead> <tr> <th>Sl.No.</th><th>Pollutant</th><th>Method</th></tr> </thead> <tbody> <tr> <td>1</td><td>SO₂</td><td>Ultraviolet Fluorescence</td></tr> <tr> <td>2</td><td>NO₂</td><td>Chemiluminescence</td></tr> <tr> <td>3</td><td>SPM(PM₁₀)</td><td>Gravimetric</td></tr> <tr> <td>4</td><td>SPM(PM_{2.5})</td><td>Gravimetric</td></tr> <tr> <td>5</td><td>CO</td><td>CO monitor</td></tr> </tbody> </table>	Sl.No.	Pollutant	Method	1	SO ₂	Ultraviolet Fluorescence	2	NO ₂	Chemiluminescence	3	SPM(PM ₁₀)	Gravimetric	4	SPM(PM _{2.5})	Gravimetric	5	CO	CO monitor
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7	The proponent shall submit ground tooting baseline data on flora & fauna and CSR activities already carried out within three months to the SEIAA.	<p>The site specific Wild Life Conservation Plan has been approved by PCCF (Wildlife), Chief Wildlife Warden, Odisha. The project has estimated cost of Rs. 38.70 Lakhs which includes cost for both buffer zone i.e. Rs. 25.40 Lakhs and core zone i.e. Rs. 13.30 Lakhs for the conservation and management of wildlife. The copy of the same is attached as Annexure # 5.</p> <p>For CSR activities; the project has carried a need based assessment by engaging a consultant i.e. JANASADHANA. Based on the findings different projects have undertaken in consultation with “JANASADHANA” for the socio-economic development of the local people belongs to adjoining villages. A detailed implementation status report of the same is given in Annexure # 1.</p>																		
8	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.	There is only one mines pit located in the mines area and the project has maintained the 7.5 m width of safety zone around the ML area and following as per the approved mining plan/scheme duly approved by the Indian Bureau of Mines (IBM), Gol.																		
9	Zero waste mining concept shall be implemented either by putting up palletization plant or disposal of low grade ores/fines to prospective buyers.	Due to the incorporation of better & efficient machineries and latest technologies, it is ensured that zero wastes will be coming out due to the mining activity. Steps have been initiated to work out in this context.																		
10	The following shall be implemented viz. (a) dump run off should be diverted into setting ponds until it is clear (b) adequate	a. Mines run off are being diverted to settling pits with proper checks before disposal to natural water bodies.																		

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	rain water harvesting and ground water recharging facilities should be developed in the core zone, (c) attempt should be made to achieve zero water balance.	<p>b. The project has implemented the roof top rain water harvesting structures and settling pits cum harvesting structures in the mines areas towards recharge of the ground water.</p> <p>c. Steps have been taken to achieve zero water balance like implementation STP for treatment of domestic effluent and reuse of the treated water for mines dust suppression and nearby gardening purposes.</p> <p>The photo of the same is enclosed as Photo 6 &7.</p>
11	Maintenance of roads through which transportation of ores are undertaken shall be carried by the project regularly at its own cost.	The project has black topped the transportation approach village roads along with the other projects and regular maintenance of the main approach road along with the mines haul roads are being carried out. Photo no. - 8.
12	Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA. Orissa.	We have engaged mobile water tanker for sprinkling purpose to avoid fugitive dust generation. Monitoring of AAQ was carried out in different locations of nearest human habitation in consultation with SPCB. The monitoring report is being submitted to the authorities on regular basis.
13	Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore /dust takes place.	The project has taken steps towards public roads to ensure that the trucks should not be overloaded during transportation; besides these trucks plying outside the mine is ensured to be covered with tarpaulins while transportation of the iron ore. Photo of the same is attached as Photo no. 09.
14	Rain water harvesting shall be undertaken to recharge the ground water source.	In this regard roof top rain water harvesting structures has been implemented towards augmentation of ground water in the camp

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		area. The photo of the same is enclosed above as above photo no. – 06.
15	Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to SEIAA, Orissa.	Monitoring of the ground water quality at 4 locations namely, Bileipada village, Mahadev Nasa village, Deojhar village, & Village Daldir as well as monitoring of the surface water quality at 5 locations i.e. Baitarini River, SunaNadi Up-stream, SunaNadi Down-stream, MahadevNallah U/S & MahadevNallah D/S being carried out. The records were maintained and being submitted to the authorities on regular basis. The test results found to be very well within the prescribed norms of the regulatory authorities. The tests are being carried by engaging NABL accredited laboratory i.e. BS Envitech. Pvt. Ltd. Laboratory, Telengana.
16	The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo-textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	The project has provided necessary precautionary measures like siltation pit towards protection of silt carry over into the nearby surface water bodies followed by retaining walls and garland drains at the toe of the dumps. Apart from that interference like guard wall all across the bank of the Nallah, a length of 380 mtr and check weirs at the strategic locations are provided. The above measures have been taken up to reduce flow of sediments to the 1 st order and 2 nd order streams and also other water bodies present in the buffer area. The photo regarding the same have been enclosed as photo – 04.
17	Trenches / garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of check dams shall be constructed across seasonal or perennial Nallahs (if any) flowing through the ML area be arrested. De-silting at regular intervals shall be carried out.	We ensure that there should not be any silt materials mixed in nearby Nallah and all. To arrest silt from mines run off, a no. of catch drains and settling cum percolation pits have been constructed around the mines working areas. Nallah protection guard walls have also been constructed across the length of the Nallah. Time to time de-silting is followed before each monsoon. The photo of the same is attached as photo 04.

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18	<p>Provisions shall be made for the housing the labors within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>There is no such construction activity inside the project area. The laborers are being engaged from the adjoining villages. However, we have provided a base camp near to mines with provisions of STP for treatment of domestic effluents& other facilities and the treated water is being utilized for adjoining plantation & gardening purposes.</p>
19	<p>Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The proponent shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness program for workers on impact of mining on their health and precautionary measures like use of personal equipment's etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health center shall be established near the mine site itself.</p>	<p>Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for permanent and outsider employees along with the pre-medical examination of persons employed, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments there to. The various tests include PFT, X-Ray, and lung spirometry etc.</p> <p>Workers are provided with protective respiratory devices & time to time training on safety & health aspects is being provided.</p> <p>During the reporting period 43 Nos. of IME and 55 Nos. of PME (client and contractor) has been carried out.</p> <p>The detailed list along with a sample copy of IME/PME is attached as Annexure#09.</p>

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20	<p>Shelter belt that is wind break of 15 m width and consisting of at least five tiers around the lease facing the human habitation, school/agricultural fields etc. (if any in the vicinity) in the safety zone/backfilled and reclaimed areas, around voids and roads shall be raised. Green belt development and selection of plant species shall be as per CPCB guidelines. Density of the trees has to be around 2500 plants per hectare, herbs and shrubs shall also form a part of afforestation program besides tree plantation. Help and guidance of local DFO may be sought in the matter. Details of year wise afforestation program including rehabilitation of mined out area shall be submitted to the SEIAA, Orissa within six months.</p>	<p>There is no such human habitation/schools etc. within the ML area. However, the safety zone of 7.5 m width around the ML boundary is being maintained and outside the ML area under CSR activity.</p> <p>In the year i.e. April-21 to March-22 the project has planted 1050 nos. of saplings of native species inside the ML area (Safety Zone) and 800 Nos. of saplings has been distributed to the nearby village and school.</p> <p>Photo of the same is attached as photo no. 10.</p>
21	<p>This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.</p>	<p>The lessee has obtained forest clearance over an area of 13.904 ha forest land including 1.214 Ha of safety zone for mining & its allied activities under Forest Conservation Act 1980. Copy of the same is enclosed as Annexure # 4.</p>
22	<p>The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table.</p>	<p>As such mining activity does not intersect ground water table of the area. The Ultimate working depth is 530 AMSL which is far above the ground water level and ground water level exists 510 A MSL. Therefore, intersection of ground water table of the ML area will not occur.</p>
23	<p>The top soil shall temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and</p>	<p>There is no generation of the top soil during mining operations due to working in the already broken up area during the reporting period. In case of top soil generation generated in future, it will be stored in an earmarked area and necessary precaution</p>

Reporting Period: October-21 to March-22

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MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

	plantation.	will be taken to preserve its nutrient values so that it will be used for land reclamation and raising plantations.
24	<p>The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed 28°. Back filling shall be done as per approved mining plan. Back filling to start from 3rd year onwards of the mining operation and the entire quantity of waste shall be back-filled and liquidated within five years. There shall be no external OB dumps after the 6th year of the mining operations the backfilled area shall be afforested. Back-filling has to be done in a manner that it is restored to the normal ground level. Monitoring and management of Rehabilitated areas should continue till the vegetation is established and becomes self-generating compliance status to be reported to the appropriate authorities.</p>	<p>As per the approved mining plan from Indian Bureau of Mines, Bhubaneswar, no such OB dump is proposed. The OB generation is very fewer and the generated quantity is being utilized timely for road making and maintenance purposes.</p> <p>During the scheme period, there is no scope for reclamation/ rehabilitation.</p>
25	<p>The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year wise expenditure for these funds should be reported to the SEIAA, Orissa.</p>	<p>The funds earmarked for environmental protection are being utilized for the same. The year wise expense details are enclosed as Annexure #10.</p>
26	<p>The critical parameters such as SPM, RSPM, and NO_x in the</p>	<p>All the critical parameters are being monitored like AAQ, Water Quality, peak</p>

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ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
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	<p>ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closure shall be monitored periodically. Further, quality of discharged water shall also be monitored (TDS, DO, pH and total suspended solids (TSS)). The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The circular no. J 20012/1/2006-1A.II (M) dated 27.05.2009 issued by Ministry of Environment and forest, which is available on the website of the Ministry www.envfor.nic.in shall also be refereed in this regard for its compliance.</p>	<p>particle velocity etc. and the data of the same is being displayed on an electronic display board and the same is also being updated in the company website i.e. www.miom-drp.in. Photo of e-display board attached as photo #11.</p>
27	<p>A final mine closer plan along with details of Corpus Fund shall be submitted to the SEIAA 5 years in advance of final mine closure for approval.</p>	<p>The Project has submitted a Bank guarantee of Rs. 44, 03, 400 /- for rehabilitation as a part of the management of the mines closure of the Project. It has been approved by IBM in the scheme of mining on 18.11.2020.</p> <p>A final mine closer plan along with detailed corpus fund will be submitted to the ministry of Environment & Forest 5 years in advance of final mine closure for approval.</p>
28	<p>The project proponent shall obtained necessary prior permission of the competent authorities for drawl of requisite quantity of water (Surface water and ground water) required for the project.</p>	<p>The project proponent has already obtained NOC for withdrawal of ground water from Central Ground Water Authority.</p> <p>The approved GW NOC is attached as Annexure#06.</p>
29	<p>The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions</p>	<p>We are abiding by the said conditions.</p>

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MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

	mentioned above may result in withdrawal of this environmental clearance and attract action under the provisions of Environmental Protection (EP) Act, 1986.	
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Sl. No.	The Additional Environmental Clearance condition of mining projects vide. OM of MoEF&CC, F.No. 22-34/2018-IA.III dated: 16.01.2020	Compliance
1	The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	We will abide by the condition. At present the mining operation is going on and the mineral is not yet exhausted at all & its also duly approved by the IBM in Mining Plan. Therefore, after ceasing of the mining operation or exhaust of minerals, we will undertake re-grassing of the disturbed land due mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. as duly approved in Mining Plan by IBM.

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ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

ANNEXURES

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
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MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure #01: CSR details as per “Janasadhana”

Socio-Economic Development Activities:-

Infrastructure

- Provided materials for Street Light Connections in nearby villages.
- Repairing and black topping of Village Road connecting Road from Deojhar to Murgabeda. Repairing of interior village roads

Education

- The school at village Murgabeda got improved by providing the teaching facility with the appointment of teachers. Renovation of school building & compound wall.
- Additional teachers have been posted in the adjoining villages.
- Distribution of Uniforms, Books, slates, pencil, etc. to the school students.
- Mid-day meal is being provided at free of cost for class 9th& 10th at Deojhar High School.
- Facilitating the Independence & Republic Day functions at adjoining schools by funding the entire celebration by extending various tournaments among school children.

Health

- Health-Check-up camp covering adjoining villages and free supply of medicines.
- Extending the Dispensary along with the ambulance facility to local villages with the availability Doctor& Staff and free medicine.

Drinking Water Facility & Sanitation

- 2 No's of deep bore wells got provided at village.
- Regular & periodical supply of drinking water to the adjoining villages with the water tankers.

Other peripheral activities

- MurgaMahadev Temple renovation work (Bathing area has been tiled & guard bars, Cloth changing room, Glazed tiled Bench, etc.) already completed

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- Regular maintenance of temple housekeeping, coloring etc.
- Guard wall at the bank of Mahadev –Nalla towards its protection.
- Construction of new entrance gate of MurgaMahadev temple completed in Jan-2021.

Employment Opportunities

- Locals from adjoining villages are engaged in various activities of mines.
- Besides the above Temple maintenance staff comprises 3.No. of Lady Employees are from Local villages.
- Posting of additional teachers in schools from locality.
- Development of self-help groups for villagers is under planning.

CSR Expenditure		
Murgabeda Iron Ore Mines, Sri. D.R. Patnaik		
Sl. No.	Particulars	Expenditure for the year 2021-22 (April-21 to March-22)
1	Education	5.4
2	Health	6.8
3	Drinking Water Facility	0.7
4	Social welfare (Peripheral Activities) & Infrastructure	1.7
5	Electricity	0.5
6	Water Sprinkling (Inter connecting village road etc.)	10.2
TOTAL		25.4

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ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure – 02: Consent to Operate from SPCB



CONSENT ORDER
MURGABEDA IRON ORE MINES OF SRI D. R. PATNAIK.

Page 1 of 12

BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012
Phone-2561909, Fax: 2562822, 2560955 E-mail: paribesh1@ospcboard.org, Website: www.ospcboard.org

CONSENT ORDER

No. 1074 / IND - I-CON- 223 Dt. 31.01.2020 /

CONSENT ORDER NO. 726

Sub: **Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.**

Ref: Your Online Application No. **2569545 Dated 01.04.2019, Your Letter No. MIOM-DRP/SPCB/CTO/2019-20/05 dated 4.10.2019 and online reply dated 31.12.2019**

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: **MURGABEDA IRON ORE MINES OF SRI D. R. PATNAIK**

Name of the Occupier & Designation: **SRI K. K. MANDAL, MINES MANAGER**

Address: **AT/PO: DEOJHAR, DIST: KEONJHAR.**

This consent order is valid for the period up to **31.03.2024 from the date of issue of this order.**

This consent order supersedes the earlier consent order issued vide letter No. 3544 dated 05.04.2019.

Details of Products Manufactured

Sl. No	Product	Quantity
01.	Iron Ore	2.0 MTPA

Details of Mineral Handling Plants /Units

01	Operation of mobile crushing plant of capacity 2x200 TPH
02.	Operation of mobile screening plants of capacity 2X 200 TPH

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated herein.

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Annexure # 03: Approved of review of mining plan from IBM



भारत सरकार GOVERNMENT OF INDIA
खान मंत्रालय MINISTRY OF MINES
भारतीय खान ब्यूरो INDIAN BUREAU OF MINES
क्षेत्रीय खान नियंत्रक के कार्यालय
OFFICE OF THE REGIONAL CONTROLLER OF MINES



REGD. PARCEL
Phone: 0674-2352463
TeleFax: 0674-2352490
E-mail: ro.bhubaneswar@ibm.gov.in
Plot No.149, Pokhariput
BHUBANESWAR-751020

No. RMP/A/27-ORI/BHU/2020-21/2130

Date: 18.11.2020

To

Shri Dipti Ranjan Patnaik, Mine Owner,
A/6, Commercial Estate, Civil Township,
Rourkela, Odisha-769004

Sub: Approval of Review of Mining Plan of Murgabeda Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 15.378 ha in Keonjhar district of Odisha State, submitted by Shri Dipti Ranjan Patnaik under Rule 17 of Mineral Concession Rules, 2016.

Ref: - i) Your letter No. Nil dated 29.09.2020 received on 12.10.2020.
ii) This office letter of even no. dated 12.10.2020.
iii) This office letter of even no. dated 12.10.2020 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.
iv) This office letter of even no. dated 19.10.2020.
v) Your letter No. Nil dated 02.11.2020.

Sir,

In exercise of the power delegated to me vide Gazette Notification No. S.O. 1857(E) dated 18.05.2016, I hereby Approve the Review of Mining Plan including Progressive Mine Closure Plan of Murgabeda Iron Ore Mine over an area of 15.378 ha of Shri Dipti Ranjan Patnaik in Keonjhar district of Odisha State submitted under Rule 17 of Mineral Concession Rules, 2016. This approval is subject to the following conditions:

- I. The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- II. The proposals shown on the plates and/or given in the document is based on the lease map /sketch submitted by the applicant/ lessee and is applicable from the date of approval.
- III. It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act, 1957, or the Mineral Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- IV. Indian Bureau of Mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant / lessee.

178/11/21
21-6-21

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure #04: Forest Clearance



Government of India/ भारत सरकार
Ministry of Environment, Forest & Climate Change/ पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
Eastern Regional Office/ पूर्वी क्षेत्रीय कार्यालय
A/3, Chandrasekharpur/ ए/३, चन्द्रसेखरपुर
Bhubaneswar - 751 023/ भुवनेश्वर - ७५१ ०२३



Telephone: 0674-2301213, 2301248, 2302452, 2302450. Fax: 0674-2302482. E-mail: roc.eb.mef@nic.in

No.5-ORC209/2014-BHU

5th October, 2018

To

The Addl. Chief Secretary,
Forest & Environment Deptt.,
Govt. of Odisha,
Bhubaneswar.

Sub:-

Diversion of 13.904 ha of forest land including 1.214 ha of forest land for safety zone in Murgabeda Iron Ore Mines in village Deojhar of Barbil Tehsil in Keonjhar district, Odisha for mining and allied activities during 1st RML period by Shri D.R. Patnaik.

Sir,

I am directed to refer to State Govt. letter No. 10F(Cons)498/2011-9074/F&E dated 16.05.2014, and No.9422/F&E dated 22.05.2014, wherein prior approval of the Ministry of Environment, Forest & Climate Change for diversion of 13.904 ha of forest land including 1.214 ha of forest land for safety zone in Murgabeda Iron Ore Mines in village Deojhar of Barbil Tehsil in Keonjhar district, Odisha for mining and allied activities during 1st RML period by Shri D.R. Patnaik, was sought in accordance with Section-2 of the Forest (Conservation) Act, 1980. After due consideration of the proposal by the Ministry of Environment, Forest & Climate Change and on the basis of decision of State Advisory Group meeting held on 29.05.2014, the in-principle approval for diversion of the said forest land was accorded by Ministry vide this office letter of even number dated 05.09.2014, subject to fulfillment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested to grant final approval of the proposal.

2. In this connection, I am directed to say that on the basis of the compliance report furnished by the APCCF (Nodal), Odisha vide their letter No.17465/9F(MG)-48/2005 dated 14.08.2018 and Ad-hoc CAMPA, New Delhi letter No.1-26/2014-CAMPA dated 14.09.2018, **Stage-II/final** approval of the Ministry of Environment, Forest & Climate Change is hereby granted under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 13.904 ha of forest land including 1.214 ha of forest land for safety zone in Murgabeda Iron Ore Mines in village Deojhar of Barbil Tehsil in Keonjhar district, Odisha for mining and allied activities during 1st RML period by Shri D.R. Patnaik. in Jharsuguda district of Odisha, subject to the fulfillment of the following conditions:-

- i) Legal status of the diverted forest land shall remain unchanged.
- ii) Additional amount of NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India, shall be charged by State Govt. from the user agency.
- iii) Compensatory Afforestation shall be raised over 12.69 ha of non-forest land identified in village Uparbirikala under Banspal Tahasil of Keonjhar Forest Division within a period of three years with effect from the date of issue of Stage-II clearance and maintained thereafter in accordance with the approved Plan in consultation with the State Forest Department at the cost of user agency. The C.A. plots have to be demarcated by raising 4 feet high RCC pillars at a distance of 50 meter with GPS readings noted on each pillar.

Contd...2

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**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure # 05:Wildlife Conservation Plan

OFFICE OF THE PRINCIPAL CCF (WILDLIFE) & CHIEF WILDLIFE
WARDEN, ORISSA 5TH FLOOR, B.D.A. APARTMENT, PRAKRUTI BHAWAN,
NILAKANTHA NAGAR, BHUBANESWAR- 751012.

Memo No. 1242 Dt. 15.2.10
1WL-C-FC- 533/09

To

The Chief Conservator of Forests (Nodal),
O/o the Principal CCF, Orissa, Bhubaneswar.


Sub: Approval of Site Specific Wildlife Conservation Plan for Murgabeda Iron Ore Mines
by Sri D.R. Patnaik in Keonjhar Forest Division of Keonjhar district

Sir,

I am directed to inform you that the Site Specific Wildlife Conservation Plan for Murgabeda Iron Ore Mines by Sri D.R. Patnaik in Keonjhar Forest Division of Keonjhar district has been approved by PCCF(WL) & Chief Wildlife Warden, Orissa with revised financial forecast of Rs.38.70 lakhs for the following activities.


- | | |
|---|------------------------------------|
| 1. For activities to be implemented by User agency
in project area | Rs.13.30 lakhs. |
| 2. For activities to be implemented by
DFO, Keonjhar division in
project impact area. | ----- <u>Rs.25.40lakhs.</u> |
| | Total <u>Rs.38.70 lakhs</u> |

Various activities in the lease hold area will be executed by User Agency under the guidance of DFO, Keonjhar Division. Rs.25.40 lakhs may be deposited with DFO, Keonjhar division for implementation of various activities with-in the project impact area.


Conservator of Forests (WL)


Memo No. 1243 dt. 15.2.10

Copy forwarded to the DFO, Keonjhar Division for information & necessary action with reference to Memo No. 3622 dt. 13.10.09 of CF, Keonjhar Circle..


Conservator of Forests (WL)


Memo No. 1244 Dt. 15.2.10

Copy forwarded to CF, Rourkela Circle for information & necessary action with reference to his Memo No.3620 dt.13.10.09.


Conservator of Forests (WL)

Memo No. 1245 dt. 15.2.10.

Copy forwarded to Sri D.R. Patnaik, Keonjhar, Orissa for information.


Conservator of Forests (WL)

Enc. One No. appeared S.S.
WL Conservation Plan.

Reporting Period: October-21 to March-22

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA

Annexure # 06:CGWA NOC for Ground Water withdrawal



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केंद्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Murgabeda Iron Ore Mines Of M/s D R Patnaik						
Project Address:	Murgabeda, Bileipada, Joda						
Village:	Murgabeda Camp	Block:	Joda				
District:	Kendujhar	State:	Odisha				
Pin Code:							
Communication Address:	Murgabeda Iron Ore Mines, Sri. D.r Patnaik, Bileipada, Joda, Joda, Kendujhar, Odisha - 758034						
Address of CGWB Regional Office :	Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneswar, Khordha, Odisha - 750001						

1. NOC No.:	CGWA/NOC/MIN/REN/1/2022/6953		
2. Application No.:	21-4/2293/OR/MIN/2019	3. Category:	Safe
4. Project Status:	Existing Ground Water	5. NOC Type:	Renewal
6. Valid from:	07/01/2022	7. Valid up to:	06/01/2024

8. Ground Water Abstraction Permitted:							
Fresh Water		Saline Water		Dewatering		Total	
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year
75.00	27375.00						

9. Details of ground water abstraction /Dewatering structures												
Total Existing No.:2						Total Proposed No.:0						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	2	0	0	0	0	0	0	0	0	0

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

10. Ground Water Abstraction/Restoration Charges paid (Rs.):	48563.00		
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers	Monitoring Mechanism	
		Manual	DWLR** DWLR With Telemetry
**DWLR - Digital Water Level Recorder	1	0	1

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Reporting Period: October-21 to March-22

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure #07: EC Compliance submission details

EC Compliance submission Details		
Sl. No.	Period	Date of Submission
1.	October, 2015 to March, 2016	25.05.2016
2.	April, 2016 to September, 2016	19.11.2016
3.	October, 2016 to March, 2017	26.05.2017
4.	April 2017 to September 2017	25.11.2017
5.	October 2017 to March-2018	30.05.2018
6.	April to September, 2018	02.11.2018
7.	October, 2018 to March, 2019	25.05.2019
8.	April-19 to September-19	02.11.2019
9.	October-19 to March-20	20.05.2020
10.	April-20 to September-20	24.11.2020
11.	October-20 to March-21	18.05.2021
12.	April-21 to September-21	15.11.2021

Reporting Period: October-21 to March-22

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure #08: AAQ Monitoring Locations

Table Showing AAQ Monitoring locations as per direction of SPCB:

Sl.No.	Monitoring Locations	Zone of Monitoring
1	Mines Site Office (AAQ-01)	Core Zone
2	Mines Exit Gate (AAQ-02)	Core Zone
3	Murgabeda Village (AAQ-03)	Buffer Zone
4	Bileipada Village (AAQ-04)	Buffer Zone
5	Deojhar Village (AAQ-05)	Buffer Zone
6	Mahadevnasa Village (AAQ-05)	Buffer Zone

Reporting Period: October-21 to March-22

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA

Annexure # 09: List of IME Carried out & Sample IME/PME test report

Category of Employees	IME		PME	
	Contractor	Owner	Contractor	Owner
Workers	42	0	0	34
Staff	0	0	0	0
Executive / Managers	1	0	0	21
TOTAL	43	0	0	55

[See Rule 29 F (2) and 29 L]
Report of Medical Examination Under Rule 29 B
 (To be issued in Triplicate) **

Jod 10000221

CERTIFICATE No. T/0124

Certified that Sri/Smt. Sr. Engan Deothin employed as mine in Deothin mine, Form B No. 52 has been examined for an initial periodical * medical examination. He/She* appears to be 52 years of age. The findings if the examination authority are given in the attached sheet, it is considered that Sri/Smt. Ashin Kumar Deothin

(a)* is medically fit for any employment in mines
 (b)* is suffering from LTN and is medically unfit for
 (i) any employment in mine, or
 (ii) any employment below ground, or
 (iii) any employment or work LTN

He/She* is suffering from LTN and should get this disability* cured. He/She* should be again examined within a period of 15 days months. He/She* will appear for re-examination with the result of test of LTN and the opinion of LTN specialist from LTN. He/She* may be permitted/not* permitted to carry on his/her duties during this period.

Fit for duty
13/02/2022
Dr. Rabi Narayan Kar
 Sr. Medical Officer
 Thakurani Earthmovers (P) Ltd.

13/02/2022
Dr. Rabi Narayan Kar
 Sr. Medical Officer
 Thakurani Earthmovers (P) Ltd.

Place : HI-Tech Diagnostic Centre, Joda
 Date : 12/2/2022

* Delete whatever not applicable
 ** Original - To be kept with Examining Authority.
 Pink Copy - To be handed over to Person Concerned.
 Yellow Copy - To be sent to the concerned Manager of the Mine.

Reporting Period: October-21 to March-22

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

Annexure# 10:Environmental Expenses

Environmental Expenditure of Murgabeda Iron Ore Mining Project of Sri. D.R Patnaik, District, Keonjhar,		
		Cost, Rs. In Lakhs
Sl. No.	Activity	2021-22
		(Oct-21 to March-22)
1	Dry-fog system installed & maintenance	0.5
2	Water tankers two no's for water sprinkling	7
3	Environmental Monitoring	4.9
4	Plantation and maintenance	1
5	Purchasing Env. Instrument, calibration & environment monitoring etc.	0
6	Rain water harvesting structures maintenance including desilting of settling ponds	1.2
7	Site specific sewage treatment plant with maintenance	0.15
8	Service Centre cum ETP & its maintenance	0.1
9	Maintenance of Wheel washing system	0.15
Total amount incurred		15

Reporting Period: October-21 to March-22

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**

PHOTOGRAPHS

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**



Photo#01: Mobile water Tanker engaged for dust suppression



Photo#02: Truck wheel washing system installed at mines main gate



Photo#03: Mineral handling plant with dust suppression arrangement



Photo#04: Guard wall, garland drain, settling pond and its de-silting

Reporting Period: October-21 to March-22

**STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON
ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE
MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA**



Photo#05: Environmental monitoring and sampling



Photo#06: Roof top rain water harvesting structure



Photo#07: Sewage Treatment plant (Ultra filtration unit) at Staff campus



Photo#08: Black Topped road adjoining to the mining lease



Photo#09: Vehicle with Tarpaulin cover

Reporting Period: October-21 to March-22

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS – “MURGABEDA IRON ORE MINE –PROJECT OF M/S. D. R. PATNAIK” LOCATED NEAR VILLAGE MURGABEDA (THAKURANI R.F.) OF KEONJHAR DIST., ODISHA



Photo#10: Safety Zone Plantation and saplings distribution



Photo#11: E-Display board at entrance of Mines

Reporting Period: October-21 to March-22