

# M/S. D. R. PATNAIK

Mines Owner

( A UNIT OF D.R.PATNAIK & ALTRADE GROUP)

MIOM/DRP/EC/COMP/ MOEF /2019/61

Date: 02.11.2019

**The Member Secretary,**

State Environment Impact Assessment Authority  
Ministry of Environment, Forests & Climate Change,  
Government of India,  
Qr. No-5RF-2/1, Unit-IX  
Bhubaneswar -751 022.

**Sub:** Environmental Clearance of Murgabeda Iron Ore Mining Project of Sri D.R. Patnaik. – Regarding six monthly compliance reports for the period April to September, 19.

**Ref:** 1. SEIAA Clearance letter no. SEIAA/342, dated. 04.09.2010  
2. MoEF&CC notification no. 4624 (Published in Gazette of India) dt. 26.11.2018

**Dear Sir,**

We would like to inform you that, mining activity in Murgabeda Iron Ore Mine of Shri D.R. Patnaik has been stopped since dated 18<sup>th</sup> April, 2010 for want of different statutory clearances". However, we are herewith submitting the six monthly EC compliance reports along with comprehensive data analysis(in soft copies along with e-mail) for the period of April to September, 2019 on the cited subject.

This for your kind information, please.

Yours sincerely,

**For Murgabeda Iron Ore Mine,  
Shri D.R. Patnaik**

  
**Mines Manager**

**Murgabeda Iron Mines**

**M/s D R Patnaik**  
Encl. As above

**Copy to:**

1. The Director (S), Regional Office (EZ), **Ministry of Environment, Forest & Climate Change**, A-31, Chandrasekharpur, Bhubaneswar.
2. The Chairman, **Central Pollution Control Board**, Parivesh Bhawan, CBD-Cum Office Complex, Delhi - 110032
3. The Chairman, **State Pollution Control Board**, Orissa, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar - 751012
4. The Regional Director, **Central Ground Water Board**, Government of India, South Eastern Region, Bhubaneswar - 751030.

# Six Monthly EC Compliance Report

Period: April to September, 2019



**MURGABEDA IRON ORE MINES**

**M/s. D. R. PATNAIK**

**At – Boneikela, PO - Joda,**

**Dist. – Keonjhar, Odisha – 758 034**

**[www.miom-drp.com](http://www.miom-drp.com)**

**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 mine is not in operation since dated 18<sup>th</sup> April 2010, for want of forest/statutory clearance. However, the project proponent has obtained the Forest Clearance Vide letter No. 5-ORC209/2014-BHU dated 05.10.2018. Copy enclosed as <b>Annexure # 01</b>.</p> <p>Adequate measures have been taken by providing retaining wall along with garland drain all around the mines dump areas to prevent mines runoff water to the nearby water bodies. Other necessary measures have also been implemented like gully plugs at regular intervals etc. There are no such OB dumps, the sub grade dumps are stabilized at ear marked area with proper sloping and terracing, for better stabilization. The enclosed photos are witnessing the above. The photo copy of the same is enclosed as <b>photo-1 &amp; 2</b>. Dump details are given in <b>Annexure # 2</b>.</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 survey in core zone and buffer.	Different projects has undertaken in consultation with “ <b>JANASADHANA</b> ” for the socio-economic development of the local people belongs to adjoining villages. A detailed implementation status report of the same is given in <b>Annexure # 3</b> .
3	The applicant will comply with the points, concerns and issues raised by the people during public hearing on 29 <sup>th</sup> 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

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		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	<b>The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.</b>	Necessary statutory clearances/ approval/ permissions from the concerned authorities have been obtained such as: Consent to Operate from SPCB (Copy attached as Annexure # 04), approved mining plan from IBM (Copy attached as Annexure # 05), Forest clearance from MoEF&CC (Copy attached as Annexure # 01), etc. Wildlife Conservation Plan (Copy attached as Annexure # 6), Forest Clearance Letter (Copy attached to Annexure # 1).
5	<b>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 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.</b>	The Half yearly compliance report is being submitted herewith for the same i.e. for the period October, 2018 to March, 2019. Earlier submitted details are attached as <b>Annexure # 7</b> .
6	<b>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 indicated</b>	The mine is not in operation since dated 18th April 2010, for want of forest/statutory clearance. There is provision of monitoring of AAQ in the core as well as buffer zone of the ML area. Monitoring of AAQ used to carry out every month except during monsoon. The monitoring report was carried as per NAAQs notifications made by the CPCB. The monitoring

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		location is enclosed as <b>Annexure # 8.</b>
<b>7</b>	<b>The proponent shall submit ground too thing baseline data on flora &amp; fauna and CSR activities already carried out within three months to the SEIAA.</b>	The site specific Wild Life Conservation Plan has been prepared by Mr. P.K. Sarangi, Rtd. IFS Officer & got 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 project proponent has constructed check dam & check weirs to restrict the mixing of undesired substances in nearby streams & also established guard wall along the sides of Nallahs. The copy of the same is attached as <b>Annexure # 6.</b> A detailed CSR activity on the same got submitted.
<b>8</b>	<b>Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.</b>	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.
<b>9</b>	<b>Zero waste mining concept shall be implemented either by putting up palletization plant or disposal of low grade ores/fines to prospective buyers.</b>	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.
<b>10</b>	<b>The following shall be implemented viz. (a) dump run off should be diverted into setting ponds until it is clear (b) adequate rain water harvesting and ground water recharging facilities should be developed in the core zone, (c)</b>	<p>a. Dump run off are being diverted to mines pit area and balance quantity is channelized to settling pits with proper checks before disposal to natural water bodies.</p> <p>b. The project has implemented the roof top rain water harvesting</p>



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	<b>attempt should be made to achieve zero water balance.</b>	<p>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 <b>Photo 3 &amp; 4</b></p>
<b>11</b>	<b>Maintenance of roads through which transportation of ores are undertaken shall be carried by the project regularly at its own cost.</b>	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. <b>Photo no. - 05.</b>
<b>12</b>	<b>Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amentias located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA. Orissa.</b>	As the project is not operation, there is no fugitive dust emission monitoring. Monitoring of AAQ was carried out in different locations of nearest human habitation in consultation with SPCB except during monsoon.
<b>13</b>	<b>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.</b>	The project has taken steps towards public roads to ensure that the trucks should not be overloaded during transportation; besides these trucks will be covered with tarpaulins while transportation of the iron ore. Time to time awareness program will be carried out for the operators/drivers etc.

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		towards the same.
14	<b>Rain water harvesting shall be undertaken to recharge the ground water source.</b>	In this regard KRG Rain Water foundation, Chennai got engaged in consultation with Regional Director, CGWB, and Bhubaneswar and roof top rain water harvesting structures got implemented towards augmentation of ground water in the camp area. The photo of the same is enclosed above as above <b>photo no. – 03 &amp; 04.</b>
15	<b>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.</b>	The mine is not in operation since dated 18th April 2010, for want of forest/statutory clearance. There is provision of monitoring of the ground water quality at 5 locations namely, Bileipada village, Mahadev Nasa village, Deojhar village, Daldir & Murgabeda as well as monitoring of the surface water quality for surface water bodies i.e. Baitarini River, Suna River, Mahadev Nallah. The records were maintained. The registers are being maintained for monitoring parameters and results are very well within the norms.
16	<b>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.</b>	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 267 M and check weirs at the strategic locations are provided. The above measures have been taken up to reduce flow of sediments to the 1 <sup>st</sup> order stream such as Murga Mahadev Nallah and 2nd order streams such as



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		Baitarini River and also other water bodies present in the buffer area. It has been taken based on the rain fall data of past 50 years from the IMD station i.e. Keonjhar and all the sump capacity have been designed by giving 50 % safety margin. The photos regarding the same have been enclosed as <b>photo – 6.</b>
17	<b>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.</b>	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 <b>photo 06 &amp; 07.</b>
18	<b>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.</b>	There is no such construction activity inside the project area. They are being engaged from the adjoining villages. However, we have provided the site specific STP for treatment of domestic effluents and the treated water is being utilized for adjoining plantation & gardening purposes.
19	<b>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</b>	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

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	<p>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>to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 &amp; rules 1956 and amendments there to. The various tests include PFT, X-Ray, and lung spirometry etc. Workers are provided with protective respiratory devices &amp; time to time training on safety &amp; health aspects is being provided. A common full time qualified Occupational health doctor with provision of Occupational Health center has been provided near the mines area along with Deojhar Iron Ore Mines of TMPL.</p>
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 project has covered all the sub-grade dumps with application of mixed grass seeds along the slopes to stabilize and also to reduce wash off in case of rains during monsoon.</p> <p>A safety zone of 7.5 m width around the ML boundary is being maintained. In this regard, the project has covered the dumps with application of mixed grass seeds along the slopes to stabilize and also to reduce wash off in case of rains during monsoon.</p> <p>The project has done <b>18,400</b> numbers of saplings in and around the ML area till date in safety zone, &amp; peripheral area of ML. Copy of the same is attached as <b>photo no. 08</b></p>

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21	<b>This environmental clearance is subjected to forest clearance under the Forest (Conservation) Act, 1980.</b>	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 <b>Annexure # 1.</b>
22	<b>The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table.</b>	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.
23	<b>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 plantation.</b>	There is no generation of the top soil during mining operations. In case of top soil generation generated in future, it will be stored in an earmarked area and necessary precaution will be taken to preserve its nutrient values so that it will be used for land reclamation and raising plantations.
24	<b>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 3<sup>rd</sup> year onwards of the mining operation and the entire quantity of waste shall be back-filled and liquidated within five</b>	There is one sub-grade dump which has grade value more than 45 % of Fe i.e. marketable grade. The sub-grades are stacked in an identified area inside ML area by maintaining with proper slope. Dump is also developed with garland drain and retaining wall at the base. Plantation of native species of different varieties of plants of <b>18, 400</b> species has been planted over waste dumps, safety zone & peripheral area of ML till date. Proper care and survival of vegetation is being carried.  As per back filling, monitoring and management of rehabilitated area is

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	<p>years. There shall be no external OB dumps after the 6<sup>th</sup> 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>concerned, we will abide by the conditions as per the approved mining scheme and progressive mine closer plan. Monitoring and management of rehabilitated areas will be continued until vegetation becomes self-sustaining.</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.</p>
26	<p>The critical parameters such as SPM, RSPM, and NO<sub>x</sub> in the 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</p>	<p>All the critical parameters are being monitored like AAQ, Water Quality etc. and the data of the same is being displayed on a display board.</p>

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	the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be refereed in this regard for its compliance.	
27	<b>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.</b>	The Project has submitted a Bank guarantee of Rs. 42, 22, 200 /- 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 14.03.2018. 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.
28	<b>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.</b>	The project proponent has already obtained NOC for withdrawal of ground water from Central Ground Water Authority.
29	<b>The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this environmental clearance and attract action under the provisions of Environmental Protection (EP) Act, 1986.</b>	We are abiding by the said conditions. We are submitting six monthly EC compliance reports once in a six month as per the schedule. The details have been enclosed as <b>Annexure # 7</b> .

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**Annexure – 1: 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-13, Chandrasekharpur B-2, समन्वयनभवन  
Bhubaneswar - 751 023 बुधबेजार - 751 023



Telephone: 0674-2301213, 2301245, 2302452, 2302455. Fax: 0674-2302432. E-mail: [regional-mef@nic.in](mailto:regional-mef@nic.in)

No.5-ORC209/2014-BIU

3<sup>rd</sup> 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 1<sup>st</sup> RML period by Shri D.R. Patnaik.

Sir,

I am directed to refer to State Govt. letter No. 107(Cross)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 1<sup>st</sup> 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 (Odisha), Odisha vide their letter No.17465/9FQMG)-18/2805 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 1<sup>st</sup> RML period by Shri D.R. Patnaik, in Jharnuguda 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 Uparhirkola under Bangal 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 rising 4 feet high RCC pillars at a distance of 50 meter with GPS readings noted on each pillar.

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**Annexure – 2 : EMP details**

<b>Sub-Grade Dump Details</b>			
<b>Sl. No.</b>	<b>Location</b>	<b>Area In Ha.</b>	<b>Material</b>
1	Dump-1 (Near South eastern side of the lease)	0.733	Sub grade ore
2	Dump – 2 (Near pillar no.7)	0.037	Sub grade ore
3	Dump – 3 (On pit benches)	0.235	Sub grade ore

<b>Retaining Wall Details</b>				
<b>Sl. No.</b>	<b>Location</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>
1	Dump – 1 (Near out gate, Nallah side)	58	1.2	2
2	Dump – 3 (Near pillar no.14 to 16)	209	1.2	1.3

**Annexure – 3: CSR details**

**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 9<sup>th</sup> & 10<sup>th</sup> at Deojhar High School.

**Reporting Period: April to September, 2019**



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- 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**

- Murga Mahadev Temple renovation work (Bathing area has been tiled & guard bars, Cloth changing room, Glazed tiled Bench, etc.) already completed
- Regular maintenance of temple housekeeping, etc.
- Guard wall at the bank of Mahadev –Nalla towards its protection.

**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.

**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**

• **Year Wise Expenses**

<b>CSR Expense Details</b>						
<b>Sl. No</b>	<b>Description</b>	<b>Expense (in Lakhs) 2013-2014</b>	<b>Expense (in Lakhs) 2014-15</b>	<b>Expense (in Lakhs) 2016-17</b>	<b>Expense (In Lakhs) 2018-19</b>	<b>Expense (In Lakhs) 2018-19 (April- Sept-19</b>
<b>1</b>	<b>Infrastructure</b>	1.33	0	0	0	0
<b>2</b>	<b>Education</b>	2.92	1.9	3.21	1.84	2.18
<b>3</b>	<b>Health</b>	4.10	3.2	4.61	3.66	2.01
<b>4</b>	<b>Drinking Water Facility</b>	1.96	1.5	0.12	0	0.28
<b>5</b>	<b>Social welfare</b>	2.00	1.2	0.98	1.64	1.05
<b>6</b>	<b>Employment</b>	37.78	28.86	0	0	20.15
<b>7</b>	<b>Total</b>	<b>50.09</b>	<b>36.66</b>	<b>8.92</b>	<b>7.14</b>	<b>25.65</b>

**Reporting Period: April to September, 2019**

**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 – 4: Consent to Operate from SPCB**



CONSENT ORDER  
MURGABEDA IRON ORE MINE OF M/S. D. R. PATNAIK

Page 3 of 12

BY REGD. POST WITH A.D.

**STATE POLLUTION CONTROL BOARD, ODISHA**

A/118, NBakantha Nagar, Unit-VIII, Bhubaneswar-751012  
Phone-2561909, Fax: 2562822, 2561955 E-mail: [spcbspc@spcb.ori.org](mailto:spcbspc@spcb.ori.org), Website: [www.spcboard.ori.org](http://www.spcboard.ori.org)

**CONSENT ORDER**

No. 3544 / IND - I-CON- 223 Dt. 05-04-2019 /

**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**

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 31.03.2020 from the date of issue of this order.

**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 outlet, 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.

**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: Approved of review of mining plan from IBM**



To  
Shri D R Patnaik, Mine Owner,  
At/PO- Baneikala,  
Dist – Keonjhar, Odisha- 758034

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 D R Patnaik under Rule 17 of Mineral Concession Rules, 2016.

Ref: - i) Your letter No. Nil dated 06.02.2018.  
ii) This office letter of even no. dated 06.02.2018.  
iii) This office letter of even no. dated 06.02.2018 addressed to Director of Mines, Government of Odisha copy endorsed to you.  
iv) This office letter of even no. dated 21.02.2018.  
v) Your Qualified Person letter No. PMP/IBM/09/2017-18 dated 26.02.2018.

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 D R 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.

**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: Wildlife Conservation Plan**

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

Memo No. 1242 Dt. 15-2-10  
1WL-C-FC-533/08

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

Subj: 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.	Rs.25.40 lakhs
	<b>Total Rs.38.70 lakhs</b>

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. 3822 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.3820 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.

*Enc. One Mo. approved S.S. WL Conservation Plan.*

Conservator of Forests (WL)

**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 – 7: EC Compliance submission details**

<b>EC Compliance submission Details</b>		
<b>Sl. No.</b>	<b>Period</b>	<b>Date of Submission</b>
<b>1.</b>	October, 2016 to March, 2017	<b>26.05.2017</b>
<b>2.</b>	April, 2016 to September, 2016	<b>19.11.2016</b>
3.	October, 2015 to March, 2016	<b>25.05.2016</b>
4.	April, 2015 to September, 2015	<b>16.11.2015</b>
5.	Oct 2014 to March, 2015	<b>25.05.2015</b>
6.	Apr, 2014 to Sep, 2014	<b>22.11.2014</b>
7.	October 2013 to March 2014	<b>25.05.2014</b>
8.	April 2013 to September 2013	<b>25.11.2013</b>
9.	October 2012 to March 2013	<b>25.05.2013</b>
10.	April 2012 to September 2012	<b>25.11.2012</b>
11.	April 2017 to September 2017	<b>25.11.2017</b>
12.	October 2017 to March-2018	<b>30.05.2018</b>
13.	April to September, 2018	<b>02.11.2019</b>
14.	October, 2018 to March, 2019	<b>25.05.2019</b>

**Reporting Period: April to September, 2019**

**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 – 8: AAQ Locations**

Details of Ambient Air Quality Monitoring Stations		
Identification/ Abbreviation of air Quality Sampling Stations.		
Station No.	Identification	Location
1	A1	Mines-site-office
2	A2	Village- Murgabeda
3	A3	Village - Boneikela
4	A4	Village - Bhadrasahi

**Reporting Period: April to September, 2019**



**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**

**PHOTOS**



Pic-1- Retaining wall constructed at the base of sub-grade dump



Pic-2- Dump Stabilization with plantation



Pic-3: Settling Pond & Check Dam



Pic-4: Roof top rain water harvesting structure

**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**



Pic-5: Black Topped road for mineral dispatch



Pic-6: Guard wall along the Nallah



Pic-7: Check weir



Pic-8: Plantation of S/z