



No. Mines/RGT/4(1)/ENV/EC/HYRTN/2022/135
To

Bhilai, Dated : 21/04/2022

1. Additional Director,
Ministry of Environment, Forest and Climate change
Government of India, Paryavaran Bhavan,
C.G.O. Complex, Lodhi Road, New Delhi- 110003
2. Director,
Central Pollution Control Board,
Parivesh Bhawan, CBD-cum-office complex
East Arjun Nagar, New Delhi-110032
3. Additional Principal Chief Conservator of Forests(C)
Ministry of Environment, Forest and climate change,
Regional Office (WCZ), Ground Floor, East wing,
New Secretariat Building Civil Lines, Nagpur-44000
Email : apccfcentral-ngp-mef@gov.in
4. Member Secretary
Chhattisgarh Environment Conservation Board
Paryavas Bhavan, North Block Sector-19,
Atal Nagar Dist- Raipur(C.G.), PIN 492101
Phone – 0711-2512220, Email - hocecb@gmail.com

Sub: Status of compliance to the Environmental Clearance conditions in respect of Rowghat Iron Ore lease allotted to M/s Steel Authority of India Limited.

| | |
|---|----------------|
| Ref: 1. No. J-11015/331/2006-IA. II (M) | dtd 04.06.2009 |
| 2. No. J-11015/331/2006-IA. II (M) | dtd 15.03.2010 |
| 3. No. J-11015/331/2006-IA. II (M) | dtd 08.06.2017 |
| 4. No. J-11015/331/2006-IA. II (M) | dtd 25.01.2022 |

Dear Sir,

With reference to the above cited subject, please find enclosed herewith six month compliance report for the period from Oct'2021 to March'2022 as attached.

Your's faithfully
For Steel Authority of India Ltd.
Bhilai Steel Plant

(Jay Prakash)

General Manager cum Mine Manager
Rowghat Iron Ore Mine

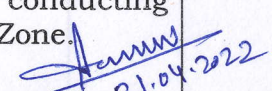
JAY PRAKASH
GM CUM MINE MANAGER
ROWGHAT IRON ORE MINE
BHILAI STEEL PLANT

आप हमारे साथ हिन्दी में भी पत्र व्यवहार कर सकते हैं ।

Sub: The point wise Compliances of Environment Clearance condition granted by MoEF&CC vide letter No. J-11015/331/2006- IA. II (M) dated 04.06.2009 and subsequent amendment vide letter dated 15.03.2010, 08.06.2017 and 25.01.2022 wrt Rowghat Iron Ore Mine – Deposit “F” (ML area 2028.797 ha and production capacity 14.0 MTPA) in Matla Reserve Forests, in Narainpur and Kanker Distt., in Chhattisgarh of M/s Steel Authority of India Limited -Bhilai Steel Plant (SAIL-BSP).

(Lease deed map and Stage-2 Forestry clearance accorded vide letter no F.No. 8-44/2005-FC (Pt) dated 03.08.2009 over an area of 883.22 ha)

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| A-1 | To conserve the rich biodiversity of the area including wildlife, mitigating measures for regeneration / restoration of rare plants of economic importance including medicinal plants and wildlife species which require protection and conservation shall be undertaken during the development of mine leases and the status of implementation shall be submitted to the Regional Office of the Ministry every half yearly. The said measures shall also include identification and development of safe corridor for the wild animals, conservation of top soil to save the herbaceous and micro-flora etc. The required EMP should be in place in the initial years of mine construction activities. | <p>Bio-diversity and wildlife conservation plan has been approved vide letter no व.प्रा./प्रबंध-176/2015/461 dated 18.02.2015 by Government of Chhattisgarh. . SAIL has deposited sum of Rs. 17.50 crore and 36.28 crore against Bio-diversity and wildlife conservation plan and ECO development Plan in CAMPA account and account of Divisional Forest Officer (DFO), Bhanupratappur (E).</p> <p>Updated Status</p> <p>The Wild Life Conservation Plan was in 2 parts:</p> <ol style="list-style-type: none"> Bio-diversity and Wildlife Conservation Plan Rs.17.50 Crores Eco Development Plan Rs. 36.28 Crores <p>BIO-DIVERSITY AND WILDLIFE CONSERVATION PLAN (Part-1)</p> <p>The scheme-wise financial allocation for Bio-diversity and Wildlife Conservation Plan (Part-1 of Wild life conservation plan) for the period 2016-17 to 2020-21 is Rs. 665.20 lacs.</p> <p>Details of work carried out after approval as informed by Divisional Forest Officer, Bhanupratappur(E) vide letter no. लेखा/कैम्पा रावघाट माई. परियोजना नं.क्र. 01/2021/3991 दिनांक 11.08.2021</p> <p>The expenditure statement as on 31.07.2021 for Bio-diversity and Wildlife Conservation plan is also informed by Divisional Forest Officer, Bhanupratappur (E). (Annexure-I)</p> <p>ECO DEVELOPMENT PLAN (Part-2)</p> <p>Forest Deptt, GoCG has submitted the 20 years comprehensive working plan of Rs. 36.28 Crore through public participation by conducting Gram Sabhas at 22 villages of Buffer Zone.</p> <p>The major jobs to be taken up under this plan are</p> |
| A-2 | Conservation plan for wildlife shall be prepared in consultation with the Chief Wild Life Warden and implemented during the mine development stage before start of mining activity at Phase - I. The plan shall consist of in-built monitoring and evaluation mechanism. Necessary fund for implementation of the same shall be separately allocated and shall not be diverted for any other activity. | |


JAY PRAKASH
 GM CUM MINE MANAGER
 ROWGHAT IRON ORE MINE
 BHILAI STEEL PLANT

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| | | <p>i) Construction of Hospital with all facilities at an estimated cost of Rs 9.00 crore at Bhaigaon (Dandakvan).</p> <p>ii) Construction of one no. new school building at Bhaigaon (Dandakvan) at an estimated cost of Rs 5.00 crore.</p> <p>The recurring cost of operation of School and Hospital shall be borne by Bhilai Steel Plant.</p> <p>Following funds have been allocated for eco-development activities.</p> <p>i. Vide Letter (क्रमांक/कैम्पा-03ए/2021-22/298) दिनांक 14/01/2022 Rs. 596.70 लाख</p> <p>ii. Vide Letter (क्रमांक/कैम्पा-03ए/2021-22/998) दिनांक 14/02/2022 Rs. 497.60 लाख</p> <p>iii. Vide Letter (क्रमांक/कैम्पा-03ए/2021-22/1709) दिनांक 21/03/2022 Rs. 1126.60 लाख</p> <p>(Annexure-II)</p> |
| A-3 | The project proponent should earmark an amount of Rs 80 Crores for the overall development of the area and local people, for which a separate account shall be maintained and funds shall not be diverted for any other purpose from the said account. | <p>The total expenditure incurred for overall development of area is Rs. 92.28 crore till March 2022.</p> <p>As a major initiative for overall development of area, SAIL has funded DalliRajhara-Rowghat Rail link (0-95 km) which has commissioned uptoAntagarh (0-60 km) and passenger train service has been started upto Keonti (Photograph of Railway Station attached). This project will enable SAIL to transport iron ore and also provide rail connectivity to this region to rest of India. It is worth mentioning that SAIL is providing employment to 177 Project Affected Families of land covered for laying of Rail line after imparting ITI in different skills. Out of these 177 identified persons 133 persons have already been offered employment in Bhilai Steel Plant. It is expected that the Rail line uptoRowghat shall reach by Dec-25.</p> <p>Over and above SAIL/BSP has initiated various CSR schemes and activities for marginalized population of Rowghat area during the past 7 to 8 years.</p> <p>The summary of major CSR activities are as follows</p> <p>I. Medical and health services: Organizing monthly medical camps, running a dispensary at Antagarh, Khodgaon and Dandakvan, referring of critical patients and their treatment at Bhilai Steel Plant's hospital. Rs. 701.39 lakhs incurred till 2021-22. SAIL has recently started mobile medical service</p> |

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| | | <p>equipped with doctor, nurses and medicine to cater the medical need of the villages of Narainpur and Kanker at an estimated cost of Rs. 100.0 lakhs and recurring expenditure of 40.0 lakhs each year for period of 15 year.</p> <p>II. Education Improvement:</p> <p>a. Adopted total 224 students from Rowghat/Rajhara mines area to impart free education, boarding and lodging Class-VI to XII till date with a scheme to adopt 20 students each year from Rowghat area. The approximate expenditure incurred is Rs. 650 lakhs (approx.) since 2009-10.</p> <p>b. Opening of day boarding English medium school at Antagarh for Buffer zone tribal children in association with DAV education society from Sept. 2015 equipped with bus service to ferry the students from villages. Every year 70 boys/girls are being inducted at UKG level. The school shall be elevated to higher secondary level in due course of time: Rs 834.78 lakhs incurred between the period 2015-16 to 2021-22.</p> <p>It is a permanent structure of pre-fabricated type. This standard of construction is same as that of Permanent Barracks at 18 locations provided to security forces (BSF and SSB) deployed for providing security to Rowghat Rail Line and Rowghat Mining Project. These permanent structures maintain the constant temperature within the rooms and built with a view to minimize the construction time. However, construction of one residential school with all facilities at Dandakvan and construction of few schools and renovation of existing schools in 22 affected villages of Buffer zone at a total estimated cost of 10.31 Crore. are to be done under ECO DEVELOPMENT PLAN for which SAIL has deposited Rs. 36.28 Crore in Chhattisgarh CAMPA account, Forest Deptt</p> <p>III Women Empowerment</p> <p>a) Till date 181 girl student has been imparted nursing education by Bhilai Steel Plant at an expenditure of Rs. 560.66 lakhs.</p> <p>SAIL is also incurring expenditure in Sanitization, drinking water, Women empowerment and sports etc.</p> |
| A-4 | List of house hold-wise economic activities proposed to be provided shall be prepared and submitted within six months to the Ministry. | The ECO development plan prepared by Forest department, GoCG after conducting Gram Sabhas and identified the various works to be carried out based on house hold economic needs. |
| A-5 | Implementation of all identified and, to be identified, economic activities shall start | Local people have been given preference in construction and other project related activities of pre-developmental activities of mining. They |

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| | immediately and be completed during the construction period (i.e mine development stage) and in any case before actual mining starts so as to ensure that the local people get the benefits of such economic package during the construction period itself. | are engaged in tree felling, road construction, barracks and rail line construction activities. They shall also be engaged in mining activity after mining activity started in full swing. SAIL has imparted vocational training to 16 local youths who will be absorbed in mining activity through contractors. |
| A-6 | Medical and sanitary measures including toilet facilities especially for the women should be in place in the first two years of construction activities. | Medical camps are being conducted regularly to cover the buffer zone area. Total 142 medical camps have been organized covering 57612 patients. Three medical dispensaries are in operation one at Antagarh (since 2014) and other at Dandakvan (Rowghat) & Khodgaon(2022). SAIL has recently started mobile medical service equipped with doctor, nurses and medicine to cater the medical need of the villages of Narainpur and Kanker at an estimated cost of Rs. 100.0 lakhs with recurring cost of 40 lakhs each year for period of 15 years. Total 45 nos of toilet are constructed in Kanker District during year 2014-15. |
| A-7 | A time-bound programme to control the endemic diseases should be launched and periodical reviews shall be conducted to see the impact of various health cares taken by the company and whenever necessary remedial steps taken. | A base line survey for affected population by endemic disease, if any, has been carried during daily medical camp scheduled in one of the villages of 22 villages of project buffer zone. This medical camp is carried out through Ram Krishna Mission Ashram wherein SAIL has provided mobile medical ambulance equipped with Doctor and medicine at an estimated cost of 1.0 Crore and recurring cost of Rs. 40.0 Lakhs. |
| A-8 | Facilities including transport to ensure full enrolment and nil or least dropout shall be in position during the construction period itself so that education is provided to the boys and girls of the area. | A day-boarding English medium school with association of DAV education society has been opened for the children of buffer zone villages at Antagarh equipped with smart class to provide free education to children of Buffer Zone. The school has provided buses for ferrying children from villages to school and back. Every year 70 boys/girls are being inducted at UKG level. The school shall be elevated to higher secondary level, till date total 333 nos of children are admitted to this school. Apart from this, SAIL has adopted 224 students from Rowghat/Rajhara mines area from Class-VI to XII, till date (education, boarding and lodging) and incurred expenditure Rs. 650 lakhs (approx.) since 2009-10 for boarding/lodging apart free education. (Photograph attached). |
| A-9 | A list of eligible boys and girls of the buffer zone indicating their individual aptitudes in | Total 133 identified persons from rail line PAF area were given employment in SAIL after acquiring ITI certificate sponsored by SAIL. |

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| | various skills including skills relevant for the company's activities (mining, office etc), requirements (dresses, gloves etc for the workers) and such boys and girls shall be imparted required training so that local boys and girls get employment in the company and the attempt should be to create a situation so that the excuse that for want of skilled hands local people could not be employed in the service of the company should be minimal. | 181 Tribal girls of buffer zone area were imparted nursing education in nursing colleges. . Further, local village girls are also provided training in stitching and computer courses at Dandakvan (Rowghat). 20 new admission done in session 2021-22. |
| A-10 | A 50 m barrier of no mining zone all along both the side(s) facing seasonal or perennial nallahs /streams passing through the lease area (if any) shall be demarcated and thick vegetation of native species raised. In case such nallahs/streams runs adjacent the lease, the barrier shall be all along the side facing the nallah/stream. | No seasonal or perennial nallahs passing through the present proposed active mining area. |
| A-11 | Adequate measures shall be undertaken during the period of development of mine to compensate loss of forest cover in addition to the obligatory compensatory afforestation under various laws shall be submitted to the Regional Office of the Ministry. Status of implementation of the measures undertaken shall be submitted to the Regional Office of the Ministry on half yearly basis. | EMP for plantation in addition to the compensatory afforestation has been prepared in consultation with state forest dept. Details are as follows; 1. Development of nursery : Rs. 40 lakhs 2. Planting of fruit bearing plants : Rs.100 lakhs 3. Forest and wildlife protection in buffer area including fire protection : Rs. 200 lakhs SAIL/BSP has already deposited the demand raised by Forest department, Govt. of CG in May 2016 for initiating necessary work. Further, plantation work also be taken-up by SAIL/BSP during construction period for improvement of greenery. Forest Deptt has already identified 1726.396 ha of area in different forest range and planted 2505194 plant in the area. The list of plantation done against compensatory afforestation as provided by DFO, Bhanupratappur vide mail dated 29.06.2021 . |
| A-12 | Shelter belt i.e Wind Break of 30 m width and consisting of at least 5 tiers around lease facing the human habitation / agricultural fields (if any in the vicinity) etc. shall be raised. | There is thick forest vegetation cover along the lease boundary of mines. However, plantation shall be taken-up in areas where forest cover is depleted or less than 30 m width. This shall be implemented during mine development phase. |
| A-13 | Economic package with initial financial assistance for providing gainful economic | 20 nos. of bullock carts received from INSDAG were distributed under CSR in Rowghat area (2009-10). |

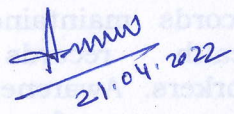
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| | activities on sustained basis for the households (whose sustenance are based on the forests where the lease is located) consistent with their skills such as poultry farming / piggery / goat (sheep) rearing in the backyard (of the houses) and other potential activities as identified during the field survey and proper marketing tie-up for their products including convenient collection centers for minor forest produce, shall be developed and implemented before three months of starting mining at Phase- I . | |
| A-14 | Land-use pattern of the nearby villages shall be studied, including common property resources available for conversion into productive land. Action plan for abatement and compensation for damage to agricultural land/ common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Regional office of the Ministry. Annual status of implementation of the plan and expenditure thereon shall be reported to the Regional Office of the Ministry. | <p>Land use pattern of the buffer zone villages has been studied during the Participatory Rural Appraisal (PRA) by SEED. As such, there is no agricultural land in the vicinity of mining area.</p> <p>A training program has been organized through Indira Gandhi KrishiVishvavidyalaya, Jagdalpur on productive use of agriculture land and improve crop yield. A total 108 farmers from buffer zone villages have been covered in this 3 day residential training program.</p> |
| A-15 | Maintenance of village roads through which transportation of ores are undertaken shall be carried out by the company regularly at its own expenses. The roads shall be black topped. | <p>Following Roads including road for transportation of ore is constructed as detailed below.</p> <p>A) Road Completed.</p> <p>i) CC Road from Kalgoan to Koilibeda in 2009-10 / 2014, 6 Km / 7 Mtrs wide constructed through PWD, Govt. of CG through Collector Kanker at an estimated cost of Rs. 13.12 Crores.</p> <p>ii) BT road from Dandakvan to Bhaiyasalebhat in 2018-19, 8.3 Km / 3.5 Mtr wide at an estimated cost of Rs. 4.17 Crores.</p> <p>iii) BT link road from SH-5 to Antagarh Rail Station (June 2020-21), length 1.8 Km / 5.5 mtr wide constructed through PMGSY, Collector, Kanker on deposit basis at an estimated cost of Rs 3.14 Crores used for transportation of ore and connectivity to Antagarh station.</p> |

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| | | <p>B) Road Under Construction</p> <p>iv) CC road from SH-5 to Khodgaon / Foot hill of Anjrel Block (Oct 2020-2021) having length 6.75 Km / 7.00 Mtr wide constructed through PMGSY, Collector Narayanpur on deposit basis. Estimated Cost Rs32.31 Crore (excluding land clearances etc.) used for transportation of ore and connectivity to village Khodgaon and Anjrel.</p> <p>v) CC road from Bhaiyasalebhat to Padargaon Length : 6 Km / 3.75 Mtr wide constructed through JilaNirmanSamiti, Collector Kanker on deposit basis at an estimated cost of Rs. 8.50 Crores used for providing connectivity to Proposed Padargaon SSB Security camp as well as Padargaon village.</p> |
| A-16 | Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office of the Ministry within six months before mining begins in Phase -I and thereafter every year from the next consequent year. | Scheme for rain water harvesting shall be implemented during mining phase. |
| A-17 | 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. | Schemes shall be implemented during mining phase. |
| A-18 | <p>Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of Check Dams and Gully Plugs shall be constructed across seasonal/perennial nallahs (if any) flowing through the ML area and silts arrested. De-silting at regular intervals shall be carried out.</p> <p>Garland drain of appropriate size, gradient and length shall be constructed for both mine</p> | <p>This shall be implemented during mining activity phase.</p> <p><i>[Signature]</i> 21.04.2022</p> |

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| | pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals. | |
| A-19 | Ground and surface water (if any) in and near (within 5.0 km of the lease) the core zone shall be regularly monitored for contamination and depletion due to mining activity and records maintained . <i>The monitoring data shall be submitted to the regional office of the Ministry regularly. Further, monitoring points shall be located between the mine and drainage in the direction of flow of ground water shall be set up and records maintained.</i> | The monitoring of Ambient air quality, noise level, ground and surface water has been done regularly. (Report attached) |
| A-20 | Where lands have been identified for development of certain activities like "Botanical Park", "Fuel Wood and Fodder Plantations", "Nursery" etc. action to implement such projects should be completed during construction period. Status of implementation shall be submitted to the Regional office of the Ministry within three months before start of mining at Phase-I . | BIO-DIVERSITY AND WILDLIFE CONSERVATION PLAN (Part-1) The scheme-wise financial allocation for Bio-diversity and Wildlife Conservation Plan (Part-1 of Wild life conservation plan) for the period 2016-17 to 2020-21 is Rs. 665.20 lacs and work is carried out after approval as informed by Divisional Forest Officer, Bhanupratappur (E) vide letter no. लेखा/कैम्पा रावघाट माई. परियोजना नं.क्र. 01/2021/3991 दिनांक 11.08.2021 . The expenditure statement as on 31.07.2021 for Bio-diversity and Wildlife Conservation plan is also informed by Divisional Forest Officer, Bhanupratappur (E). |
| A-21 | 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 submitted to the | Fugitive dust emission is being 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 Regional Office of the Ministry from next semester. <i>Annex</i> <i>21.04.22</i> |

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| | Regional Office of the Ministry. | |
| A-22 | Ambient air quality monitoring shall be regularly carried out for criteria pollutants for which adequate monitoring stations shall be set up in consultation with the Central / State Pollution Control Board. The data monitored shall be displayed on the company's website and at important public places in the area mine is located. | Regular Ambient Air monitoring is being carried out in the Rowghat Area and is being provided to State Pollution Control Board. (Report attached) |
| A-23 | The number of shifts for mine operations shall be as per the approved mine plan. Blasting shall be confined during day time. M/s SAIL shall undertake adequate protection measures to control the fugitive dust emission, noise pollution to mitigate impacts surrounding the lease hold. However the number of shifts or hours permissible for external vehicular traffic shall not exceed the limits in vogue for the area under consideration or in the event of passage through forest roads or public places, as may be applicable in this case. The limits prescribed by the local authorities shall not exceeded. If no such guidelines for time restrictions are applicable, then external transport preferably shall confine to two shifts. | <p>Bhilai Steel Plant will ensure that Transportation of ore will be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore / dust takes place.</p> <p>Blasting shall be done during day time and external transportation of ore shall be done as per limits prescribed by local authorities, if any guide line available or in two shifts.</p> |
| A-24 | 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 company 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 programme for workers on impact of mining on their | <p>SAIL/BSP is running an occupational health center at Bhilai. It also monitors occupational health at mining units as well. Occupational health Centre at Rowghat shall be made operational during mining phase.</p> <p><i>Amur</i> 21.04.2022</p> |

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| | health and precautionary measures like use of personal equipments 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. | |
| A-25 | Top soil / solid waste shall be stacked separately and with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out area. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with over burden. | Indira Gandhi KrishiVishvavidhyalaya (IGKV), Raipur has been entrusted to prepare a report on top soil for regeneration of micro flora conservation in Rowghat area. Same shall be implemented during mines development phase. |
| A-26 | Over burden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10 m and overall slope of the dump shall not exceed 28°. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis . | This shall be implemented during mining phase. |
| A-27 | Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines. | Mining plan has been approved by IBM vide letter No.Narayanpur/Lauh/kha.yo-117/2018-Raipur/1244 dated - 06.12.2018. |
| A-28 | Adequate plantation shall be raised in the ML area, haul roads, OB dump sites etc. Green belt development shall be carried out considering CPCB guidelines including | This shall be implemented during mining development phase.  21.04.2022 |

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| | selection of plant species and in consultation with the local DFO / Agriculture Department. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. The density of the trees shall be around 2500 plants per ha. The company shall involve local people with the help of self help group for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office of the Ministry every year. | |
| A-29 | Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected shall be regularly sent to MoEF, Central Ground Water Authority and Regional Director, Central Ground Water Board. | The mining activity shall be confined in hilly terrain and extend upto 700 MSL as per approved mining plan during plan period 2054-59. The ground water in surrounding plane is encountered at 450 MSL (EIA report Pg 3.41) hence there is no chance of intersection of ground water table during proposed mining. However, the monitoring mechanism shall be implemented and monitored during mining development phase. |
| A-30 | The waste water from the mine shall be treated to conform to the prescribe standards before discharging in to the natural stream. The discharged water from the Tailing Dam (if any) shall be regularly monitored and report submitted to the Ministry of Environment & Forests, Central Pollution Control Board and the State Pollution Control Board. | Beneficiation of ore is not planned at Rowghat site. Washing of ore will be done at Dalli-Rajhara. Hence not applicable. There shall be no discharge of waste water from the mine. Hence not applicable. |
| A-31 | Hydro-geological study of the area shall be reviewed annually and report submitted to the Regional Office of the Ministry. In case adverse effect on ground / surface water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse | As stated in specific condition A-29 the mining activity shall be confined in hilly terrain, there is no chance of intersecting ground water table during mining. However, hydro-geological study of the area will be reviewed annually and report submitted to the Regional Office of the Ministry as soon as the development work at site is started. |

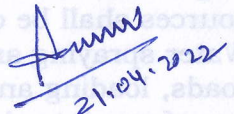
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| | impact on water sources is implemented. | |
| A-32 | Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of ores and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Transportation of ore shall be done only during day time. The vehicles transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed. The trucks transporting ore shall not pass through wild life sanctuary. | This shall be implemented during construction and mining phase. There is no wild life sanctuary in the vicinity of mining/transport area. |
| A-33 | Prior permission from the Competent Authority shall be obtained for extraction of ground water (if any). | Only surface water shall be used. The scheme of using surface water has already been finalized. Hence not applicable. |
| A-34 | Action plan with respect to suggestions /improvements and recommendations made during public consultation/hearing shall be submitted to the Ministry and the State Govt within six months . | The ECO development plan has been prepared in consultation with Gram Sabha of 22 affected villages of Buffer Zone which also includes recommendation made during public consultation. |
| A-35 | For overseeing and monitoring the progress of various EMP measures and for taking any corrective actions the initiatives and responsibilities should be that of the local officers of M/s BSP. | Monitoring Committee under the chairmanship of GM (Mines Rowghat) shall oversee the implementation of EMPs during development phase. |
| A-36 | A Sub-Group of the EAC consisting of two members of the EAC and an officer of the Ministry of appropriate seniority (to be constituted) shall make site visit at least once a year during the construction period and thereafter once in two years to see the state of compliance with various conditions stipulated by the Ministry from time to time and | Agreed. |

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21.04.222

| S.No. | Specific Condition | Compliance Status as on 31.03.2022 |
|-------------|--|------------------------------------|
| | suggest appropriate action if any deficiency is noticed. The Sub-Group shall suggest to the EAC stoppage of any activities if it is satisfied that the company has not been properly implementing the EMP upon which the EAC shall make appropriate recommendations to the Ministry. | |
| A-37 | Advance intimation for the visit(s) of the Sub-Group shall be provided to the Ministry by M/s SAIL / BSP at least three months in advance . The continuance of mining shall be determined by the report submitted by the Sub-Group on the state of affairs on mining and the related environmental issues including socio economic activities for the benefit of the local people, conservation of flora and fauna etc. | Agreed. |
| A-38 | A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval. | Agreed. |

General Conditions :

| S.No. | General Condition | Compliance Status as on 31.03.2022 |
|-------|---|---|
| B-1 | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. | Agreed. |
| B-2 | No change in the calendar plan including excavation, quantum of mineral and waste shall be made. | Agreed shall be done as per approved mining plan. |
| B-3 | Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. | Water spray and dry fog system have been proposed on haul roads, loading and unloading and at transfer points. <i>Amun</i> 21.04.2022 |

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| B-4 | Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. | Eight ambient air quality-monitoring stations has already been established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x monitoring based on the meteorological data, topographical features and environmentally and ecologically sensitive targets. Frequency of monitoring is as per the direction of State Pollution Control Board. (Report Attached) |
| B-5 | Data on ambient air quality (RPM, SPM, SO ₂ , NO _x) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months. | Ambient air quality (RPM, SPM, SO ₂ , NO _x) is being monitored on regular basis and are being submitted to the Ministry including its Regional office located at Raipur and the State Pollution Control Board / Central Pollution Control Board once in six months. Report attached. |
| B-6 | Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs. | All necessary measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. will be provided with ear plugs / muffs. |
| B-7 | Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents. | Industrial waste water shall be properly collected, treated before being reuse in plantation purpose. Oil and grease tap shall be installed and workshop effluent shall be treated in ETP before being reused in plantation purpose. |
| B-8 | Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects. Provision shall be made for the housing the labourers 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. | Personnel working in dusty areas will be provided with protective respiratory devices and they will be imparted adequate training and information on safety and health aspects during construction and mining phase as per Mines Act-1951. No labour colony shall be made in the lease area.  21.04.2022 |

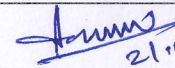
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|------|--|---|
| B-9 | A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization. | Environment Management cell shall be established during mining phase. |
| B-10 | The project authorities shall inform to the Regional Office of the Ministry located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | <p>Mineral Resources Department, GoCG has granted Mining Lease over an area of 2028.797 Ha in Rowghat in favour of SAIL, Bhilai Steel Plant vide letter No. F 3-75/89/12 Raipur Dated - 15.09.2009.</p> <p>A Financial Assurance of Rs. 3.3033 Crores in the form of Bank Guarantee has been submitted to Regional Controller of Mines, IBM, Raipur, the same is valid upto 31.03.2024.</p> <p>Date of start of land development work i.e. 05.02.2021 has already being informed.</p> |
| B-11 | The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal. | The total fund earmarked for the environment protection measure is Rs. 17.50 Crore for which 1.11 crore has been approved for the year 2020-21. In addition to this the fund allocated for monitoring of environment parameters is Rs. 56 lacs for period of three years and Rs. 58 lacs for construction of check dam. |
| B-12 | The project authorities shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | <p>Mineral Resources Department, GoCG has granted Mining Lease over an area of 2028.797 Ha in Rowghat in favour of SAIL, Bhilai Steel Plant vide letter No. F 3-75/89/12 Raipur Dated - 15.09.2009.</p> <p>A Financial Assurance of Rs. 3.3033 Crores in the form of Bank Guarantee has been submitted to Regional Controller of Mines, IBM, Raipur, the same is valid upto 31.03.2024.</p> <p>Date of start of land development work i.e. 05.02.2021 has already being informed.</p> |
| B-13 | The Regional Office of the Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports. | <p>Agreed</p> <p><i>[Signature]</i> 21.04.2022</p> |

| | | |
|------|---|--|
| B-14 | The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhopal, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests, Bhopal. | Being complied and report attached. |
| B-15 | A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal. The clearance letter shall also be put on the website of the company. | Complied. |
| B-16 | State Pollution Control Board shall display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office / Tehsildar's Office for 30 days. | Complied. |
| B-17 | The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of the Ministry located in Bhopal. | <p>Already advertised in least in two local newspapers of the District</p> <p>14/4/10</p> <p>नवभारत, रायपुर</p> http://www.sail.co.in for more information. The date of the clipping is 21/10/11." data-bbox="545 595 915 725"/> <p>दैनिक भास्कर</p> http://envfor.nic.in for more information. The date of the clipping is 21/10/11." data-bbox="535 765 905 895"/> |

Annex
21.04.2022

Additional Specific Conditions imposed in EC Amendments dtd 25.01.2022

| S.No. | Specific Conditions | Compliance Status as on 31.03.2022 |
|-------|--|--|
| i. | No mining activities will be allowed in the land involved in the mine lease area i.e 1145.577 ha. for which the forest clearance is not available. | Agreed |
| ii. | The project proponent shall strictly comply the EC condition prescribed in the earlier environmental clearance letter dated 04/06/2009, 15/03/2010 and 08/06/2017. | Agreed |
| iii. | Monthly progress on construction of Rail link to be used for transportation of material shall be submitted to IRO. | Monthly progress on construction of Rail link to be used for transportation of material is being submitted to IRO w.e.f 07/03/2022. |
| iv. | The project Proponent during the transportation through road shall ensure that all the mitigative measures are implemented in such a way that no dust generated and actual monthly air quality monitoring data for transportation should be maintained and produced during six monthly compliance report to IRO. In case if any adverse impact is encountered IRO shall immediately intimate the same to the Ministry. | <p>All mitigative measures shall be implemented in such a way that no dust generated.</p> <p>Fugitive dust sampling along the transportation route has been started. Its monthly monitoring data shall be incorporated in the six monthly compliance report.</p> |
| v. | The project proponent should explore the possibility for shifting to clean energy using electric equipment for cleaner production options to reduce the emission generated from various machinery / equipments. | Dedicated electric line of 132KV is being drawn for Rowghat Iron Ore Project, After completion of this line, processing plant will be run by electric energy. |


 21.04.2022
JAY PRAKASH
 GM CUM MINE MANAGER
 ROWGHAT IRON ORE MINE
 BHILAI STEEL PLANT