



Ref.:PAR/Env.Comp./18-19/29

Date: 29/05/2018

To,
The Additional Director (S),
EI Division, Ministry of Environment & Forests,
Paryavaran Bhawan, CGO Complex, Lodhi Road,
New Delhi 110003

Sub: Six monthly status of compliance to the conditions stipulated in the Environmental Clearance granted by MoEF vide letter no. J-11015/236/2006-IA (M) dated 11.01.2007 to prior allottee of the mine, M/s Electrosteel Castings Limited and subsequently transferred by MoEF&CC to the present allottee, Steel Authority of India Limited vide letter no. J- 11015/236/2006-IA-II (M) Pt. dated 06.12.2016 for Parbatpur Coal Mine for the period ending 31st Mar, 2018.

Dear Sir,

Parbatpur Central Coal Mine was allotted to SAIL by MoC, Govt. of India vide allotment order F.No.103/3/2015/NA Dt. 23.03.2016 under the Government dispensation route, subsequent to de-allocation of the mine from the prior allottee M/s Electro Steel Casting Ltd as per order of Honorable Supreme Court of India on 25th Sept.2014.

Environmental Clearance was granted to the prior allottee M/s Electrosteel Castings Limited vide letter no. J-11015/236/2006-IA (M) dated 11.01.2007 and same has been transferred in favor of SAIL vide letter no. J- 11015/236/2006-IA-II (M) Pt. dated 06.12.2016

It is pertinent to mention that on account of reduction in area available for SAIL for coal mining due to overlapping of Coal mining area and ONGC CBM Petroleum Mining Lease (PML), MECON was engaged for preparation of Techno Commercial Viability Report (TCVR) and as per TCVR the project is unviable. Accordingly, SAIL Board has accorded approval on 01/03/2018 for return of Block and Ministry of Coal has been informed regarding the same vide letter No. ED (CD)/SAIL/Parbatpur/MoC/18/394 dated 08/03/2018. At present, Ministry of Coal (MoC), has instructed CMPDIL, Ranchi vide letter dated 16/04/2018 to examine the TCVR prepared by MECON.

However, the six monthly compliance status of conditions stipulated in the Environmental Clearance granted and transferred in favor of Parbatpur Central Coal Mine, SAIL for the period ending 31st Mar, 2018 is being submitted for kind information.

Thanking you Sir,

Yours faithfully

(A Ghatak)

General Manager (P&S)

अमिताभ घटक

AMITABHA GHATAK

प्रबंधक (पी & एस)

G.M. (P & S)

सल-कोलियरीज डिवीज़न

SAIL-Collieries Division

Encl.: As above

Copy:-

1. The Additional Director (S),
Ministry of Environment & Forests, Govt of India,
Regional Office, Eastern Zone, A/3, Chandrasekharpur, Bhubaneswar - 751 023 (Odisha)
2. The Member-Secretary,
Central Pollution Control Board,
Parvash Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032, INDIA
3. The Member-Secretary,
Jharkhand State Pollution Control Board, H.E.C., Dhurwa, Ranchi -834004 (Jharkhand)

Six Monthly

COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE CONDITIONS

(Grant Order no. J-11015/236/2006-IA (M) dated 11.01.2007 to prior allottee, M/s Electrosteel Castings Limited and transferred to SAIL vide letter no. J- 11015/236/2006-IA-II (M) Pt. dated 06.12.2016)

OF

Parbatpur Central Coal Mine (1.24 MTPA)
In Bokaro District of Jharkhand
For the Period October'2017- March'2018



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED

COLLIERIES DIVISION

P.O. BATBINOR, DT. BOKARO -827013 (JHARKHAND)

Status of Compliance to the conditions stipulated in the Environmental Clearance granted by MoEF vide letter no. J-11015/236/2006-IA (M) dated 11.01.2007 to prior allottee of the mine, M/s Electrosteel Castings Limited and subsequently transferred by MoEF&CC to the present allottee, Steel Authority of India Limited vide letter no. J- 11015/236/2006-IA-II (M) Pt. dated 06.12.2016 for Parbatpur Coal Mine for the period ending March, 2018

(A) Specific Conditions

| Sl. No. | Condition | Status of Compliance as on March, 2018 |
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| i) | All the conditions stipulated by the SPCB in their NOC shall be effectively implemented. | <i>Application for transfer of Consent to Establish (NOC) in favor of SAIL was submitted to JSPCB on 07.04.2016 and same has been accorded on 25.01.2017. However, Conditions as stipulated by the SPCB in NOC (CTE) would be implemented, in case of operation of mines.</i> |
| ii) | Mining shall be carried out as per statute at a safe distance from the river and any water body flowing within the lease boundary. At the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft. | <i>In case of operation of mines, mining shall be carried out as per statute at a safe distance from the river and any water body flowing within the lease boundary. At the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft. However, on account of reduction in area available for SAIL for coal mining due to overlapping of Coal mining area and ONGC CBM Petroleum Mining Lease (PML), MECON was engaged for preparation of Techno Commercial Viability Report (TCVR) and as per TCVR the project is unviable. Accordingly, SAIL Board has accorded approved for return of Block on 01/03/2018 and Ministry of Coal has been informed regarding the same vide letter No. ED (CD)/ SAIL/Parbatpur/MoC/18/394 dated 08/03/2018. At present, Ministry of Coal (MoC), has instructed CMPDIL, Ranchi vide letter dated 16/04/2018 to examine the TCVR prepared by MECON.</i> |
| iii) | While extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies | <i>In case of operation of mines,, while extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over</i> |

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| | over working area. | working area. |
| iv) | Sufficient coal pillars shall be left un-extracted around the air shaft (within the subsidence influenced area) to protect from any damage from subsidence, if any. | <i>In case of operation of mines,</i> Sufficient coal pillars shall be left un-extracted around the air shaft (within the subsidence influenced area) to protect from any damage from subsidence, if any. |
| v) | Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads. | <i>In case of operation of mines,</i> Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads. |
| vi) | No depillaring operations shall be carried out below the roads and village area found within the lease. | <i>In case of operation of mines,</i> No depillaring operations shall be carried out below the roads and village area found within the lease. |
| vii) | Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material. | <i>In case of operation of mines,</i> regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings should be continued till movement ceases completely. All other necessary and effective corrective measures shall be taken to avoid loss of life and material. Cracks, if any shall be effectively plugged with ballast and clayey soil/suitable material. |
| viii) | Garland drains (of appropriate size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity should also provide adequate retention period to allow proper settling of silt material. | Garland drains around the low lying areas has been designed and adequate sump capacity is being maintained keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity is being maintained to provide adequate retention period to allow proper settling of silt material. |
| ix) | OB should be temporarily stacked at the earmarked external OB dumpsite(s) within ML area and shall have a maximum height of 60m only and consist of benches of 6-10 m each. The ultimate slope of the dump shall not exceed 28°. The OB shall be re-handled and backfilled. There shall be no external OB dump at the end of mine life. | In case of operation of Opencast mines, OB shall be temporarily stacked at the earmarked external OB dumpsite(s) within ML area and shall have a maximum height of 60m only and consist of benches of 6-10 m each. The ultimate slope of the dump shall not exceed 28°. The OB shall be re-handled and backfilled. There shall be no external OB dump at the end of mine life. |
| x) | Catch drain and siltation ponds of appropriate size should be constructed | Catch drain and siltation ponds constructed to arrest silt and sediment flows from soil, |

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| | <p>to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.</p> <p>Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of the silt material.</p> | <p>OB and mineral. The drains are being regularly de-silted and maintained properly.</p> |
| xi) | <p>Dimensions of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.</p> | <p>However incase of operation of Opencast mines, dimensions of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.</p> |
| xii) | <p>Crushers at the CHP should be operated with high efficiency bag filters/water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.</p> | <p>Washery of the prior allottee has not been transferred to SAIL.</p> |
| xiii) | <p>Drills should be wet operated only.</p> | <p><i>In case of operation of mines,</i> drills shall be wet operated only</p> |
| xiv) | <p>Controlled blasting should be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.</p> | <p><i>In case of operation of mines,</i> controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.</p> |
| xv) | <p>A progressive afforestation plan covering an area of 100 ha which includes, backfilled area, along ML boundary, along roads and infrastructure, vacant land and in area in township located outside the lease by planting native species shall be prepared and implemented in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.</p> | <p>A progressive afforestation plan would be done by planting native species in consultation with the local DFO/Agriculture Department.</p> |

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| xvi) | The backfilled quarry area shall be reclaimed with plantation / afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. | <u>In case of operation of mines</u> , reclamation with plantation / afforestation in the backfilled area will be complied as per approved Mine Plan in consultation with the local DFO/Agriculture Department. |
| xvii) | The company shall obtain prior approval of CGWA/CGWB Regional Office for use of ground water if any, for mining operations. | Application for transfer of NOC for withdrawal of ground water has been submitted to CGWA, New Delhi on 07.04.2016. In response to the above letter the CGWA, New Delhi has instructed SAIL vide letter dated.16.05.2016 to submit fresh application for NOC for ground water withdrawal along with requisite documents. In this regard Rain water harvesting scheme has been revalidated and transferred in favor of SAIL. |
| xviii) | Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for its quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board and Central / State Ground Water Board / Authority regularly. | <u>In case of operation of mines</u> , Monitoring of ground water level and quality shall be done regularly and data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board and Central / State Ground Water Board / Authority regularly. |
| xix) | The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. Any additional water requirement for mining operation shall be met from rainwater use only. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine | Application was submitted to the Director (Ground Water Directorate), Ranchi on 07.04.2016 for transfer of technical approval granted to prior allottee M/s Electro steel Casting Ltd for the design and plan of Rain water Harvesting for ground water recharging. The same has been transferred to SAIL vide letter no. GWD/182/109, Ranchi Dt.12/05/2015 |
| xx) | Sewage treatment plant should be installed in the colony. ETP should also be provided for treatment of effluents from workshop, CHP and coal washery. There shall be zero discharge from the coal washery. | <u>In case of operation of mines</u> , ETP shall be provided for treatment of effluents from Mines and plants. |

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| xxi) | Besides carrying out regular periodic health checkup of their workers. 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS. | Regular periodic health checkup of the workers deployed in the mine is being carried out. |
| xxii) | Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MoEF and its Regional Office at Bhubaneshwar. | Geo-referencing of the block had been carried out by ISM, Dhanbad in the month of May 2016. <i>In case of operation of mines</i> , Digital processing of the entire lease area using remote sensing technique shall be done regularly once in 3 years for monitoring land use pattern and report shall be submitted to MoEF and its Regional Office at Bhubaneswar. |
| xxiii) | A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests within one year for approval. | <i>In case of operation of mines</i> , a final Mine Closure Plan along with details of Corpus Fund would be submitted to the Ministry of Environment & Forests within one year for approval. |
| xiv) | Consent to operate shall be obtained before starting mining operations. | Consent to operate shall be obtained before starting mining operations. |

B. General Conditions:

| Sl. No. | Condition | Status of Compliance as on March, 2018 |
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| i) | No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests. | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests. |
| ii) | No change in the calendar plan including excavation, quantum of mineral coal and waste should be made. | No change in the calendar plan including excavation, quantum of mineral coal and waste would be done. |
| iii) | Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO ₂ and NOX monitoring. Location of the | <i>In case of operation of mines</i> , Four ambient air quality monitoring stations would be established in the core zone as well as in the buffer zone for SPM, RPM, SO ₂ and NOX monitoring. |

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| | stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. The data so collected should be regularly submitted to the Ministry including its Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. | |
| iv) | No condition exists by sl.no. (iv) | ----- |
| v) | Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading and unloading) points should be provided and properly maintained. | <i>In case of operation of mines</i> , Fugitive dust emissions from all the sources shall be controlled, regularly monitored and data to be recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading and unloading) points shall be provided and properly maintained. |
| vi) | Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. should be provided with ear plugs, muffs. | <i>In case of operation of mines</i> adequate measures shall be taken for control of noise levels below 85 dBA in the work environment as directed. |
| vii) | Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards proscribed under GSR 422(E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents. | At present no mining activity is being under taken at the mine except pumping at underground mine to prevent the mine from submergence. <i>In case of operation of mines, the condition shall be complied with.</i> |
| viii) | Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded. | <i>In case of operation of mines</i> , Vehicular emissions would be kept under control and regularly monitored as directed. |
| ix) | Environmental laboratory should | <i>In case of operation of mines</i> , Environmental |

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| | be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board. | laboratory shall be established with adequate number, type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board. |
| x) | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. | <i>In case of operation of mines</i> , Personnel working in dusty areas shall wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. |
| xi) | A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company. | <i>In case of operation of mines</i> , a separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive. In addition to this, SAIL is having a separate Corporate Environment Management Division (EMD) at Kolkata under the control of an Executive Director, who facilitates in Environmental Management of all SAIL units. |
| xii) | The funds earmarked for environmental protection measure should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bhubaneswar. | <i>In case of operation of mines</i> , the funds earmarked for environmental protection measure shall be kept in separate account and should not be diverted for other purpose. Year-wise expenditure would be reported to this Ministry and its Regional Office at Bhubaneswar. |
| xiii) | The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated condition. The Project authorities shall extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.. | Full co-operation is always extended to State and central Govt. officials. |
| xiv) | A copy of the clearance letter will be marked to concern | Not Applicable as EC granted to the prior allottee has been transferred to SAIL. |

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| | Panchayat/local NGO, if any, from whom any suggestion /representation has been received while processing the proposal. | |
| xv) | State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days. | Not Applicable as EC granted to the prior allottee has been transferred to SAIL. |
| xvi) | The Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the web site of the Ministry of Environment and Forests at http://envfor.nic.in | Not Applicable as EC granted to the prior allottee has been transferred to SAIL. |
| Sl.No | <u>Conditions as per Environmental Clearances Transferred by MoEF to Steel Authority of India Limited (EC transferred vide letter no. J- 11015/236/2006-IA-II (M) Pt. dated 06.12.2016)</u> | |
| (v) | No mining shall be carried out till the washery is operational | Application submitted to MoEF&CC on 31.03.2016 for transfer of Environmental Clearance (EC) in favor of SAIL and same has been transferred on 06.12.2016. However, while transferring the EC, MoEF&CC imposed a new condition no.5 " <i>No mining shall be carried out till the Washery is operational</i> ". Since Washery of the prior allottee is yet to be taken over by SAIL, a letter in this regard has been submitted on 07.01.2017 to Joint Secretary to GOI, MoEF&CC with a request to delete the condition no.5 in EC transfer letter No.J-11015/236/2006-IA-II (M) Pt. dt.06.12.2016. |

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