

BAI CO/ENV/A-02(A)/2018/¹⁴⁶

²²
May, 2018

Shri Kanwarjit Singh APCCF (C)
Ministry of Environment and Forest, Climate Change
Regional Office(WCZ),Ground Floor
East Wing, New Secretariat Building,
Civil Line,Nagpur-440001

Dear Sir,


Sub: Half yearly compliance status (October-2017 to March-2018) for **Chotia - II**
Captive coal mining.

Please find enclosed herewith the half yearly compliance report for the period **October-2017 to March-2018** of the Environmental Clearance No. J-11015/96/2004-IA-II(M) dated 17th June 2015 (EC transferred from M/s Prakash industries Limited to BALCO) for Chotia-II Captive coal mining.

We hope that the above is in line with the requirements under the referred Environmental Clearance. In case you would require any further information or clarification, we would be glad to furnish the same.

Thanking you,

Yours truly,


Rajiv Kumar
Head – Chotia Mines



Copy to:
Regional Officer, CECB, KORBA

**Compliance status on Environmental Clearance
BALCO CHOTIA COAL MINES, KORBA (C.G.)**

Duration: October 2017 to March - 2017

1. MoEF Letter No.: J-11015/96/2004- IA.II (M), dated 17th June 2015 (Transfer of EC from M/s Prakash industries Limited to BALCO)
2. MoEF letter No. J – 11015/95/2004-IA. II (M) dated 10.11.2005.

| Sl. No | Condition No | CONDITIONS GIVEN IN APPROVAL | STATUS OF IMPLEMENTATION |
|--------|--------------|--|--|
| 2. | A. | Specific Conditions: | |
| | (I) | The environmental clearance is subject to grant of forestry clearance by Ministry of Environment and Forests for diversion of 392.537 ha forestland under the provisions of Forest (Conservation) Act, 1980. | Agreed. |
| | (II) | Regular monitoring of subsidence movement on the surface over working area and impact on water bodies/ vegetation/ structures/ surrounding should be continued till movement ceases completely. In case of observation of any subsidence movement, mitigative measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/ suitable material. | Underground Mining operation in Chotia Coal Block has not yet started. All conditions given in approval letter will be strictly observed once we commence Underground mining operation. |
| | (III) | The project authorities should check the possibility of existence of fault (s) before deciding about the thickness of safe barrier required to be maintained between the working face and the river in consultation with the Director General Mines & Safety (DGMS). De-pillaring should also be carried out after taking prior approval of the DGMS | Shall be complied. |
| | (IV) | Stage wise seam development plans incorporating subsidence study and its reports starting from 5 th year of underground operation till the end of the mine at an Interval of 5 years should be submitted to the Ministry within six months. | The Mining operation has not started yet. All conditions given in approval letter will be strictly observed as soon as we commence Underground operation. |
| | (V) | Mine entries/ coal evacuation/ ventilation systems should be above the highest flood level to avoid any anticipated flooding of mine from surface water during rainy season. | The Mining operation has not started yet. All conditions given in approval letter will be strictly observed as soon as we commence Underground operation. |
| | (VI) | In areas where subsidence is anticipated in shallow coal occurrence, such areas be identified and provided with garland drains to ensure draining of water and avoid ingress of the same into the UG mine. | The Mining operation has not started yet. All conditions given in approval letter will be strictly observed as soon as we commence Underground operation. |

| | | |
|--------|--|---|
| (VII) | Green belt should be raised by planting the native species around the ML area, Coal Handling Plants, roads, etc. in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 1500 plants per ha. | Shall be complied. 2500 saplings were planted In the monsoon season of the year 2017 in the safety zone. |
| (VIII) | The project authorities should meet the water requirement of nearby village (s) including agricultural need/ well water in case the village wells go dry to de-watering of the mine from mine discharge after proper setting/treatment. | Shall be complied. |
| (IX) | The project authorities should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board. | Shall be complied. |
| (X) | Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometer during the mining operation. The monitoring should 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 may be sent regularly to Ministry of Environment & Forests, Central Ground Water Authority and Regional Director Central Ground Water Board. | Shall be complied. |
| (XI) | Permission from the competent authority should be obtained for drawl of water required for mining and domestic use. | NOC for groundwater withdrawal of Chotia Coal Mine has been obtained from Central Ground Water Authority, New Delhi vide NOC No. CGWA/NOC/MIN/ORIG/2016/2206 dated 23 rd June, 2016 |
| (XII) | Coal handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated. | There is no Coal handling Plant at the Mine site. The ROM (Coal) will directly be dispatched to EUP. However, adequate water Spraying arrangements will be provided for dust suppression due to Mining activities |
| (XIII) | Sewage Treatment Plant should be installed for the colony. ETP should also be provided for workshop & CHP waste water. | STP and septic tank is there In the colony for treating sewage waste water. FTP has been constructed to treat effluents generated from workshop |
| (XIV) | Consent to operate should be obtained from SPCB for the enhanced production. | Consent to operate obtained from Chhattisgarh Environment conservation board vide letter 4906 & 4908/TS/CECB/2017 Naya Raipur dated 08.12.2017. |
| (XV) | The project proponent should take all | Shall be complied. All precautions will be |

| | | | |
|--|-------|---|---|
| | | precautionary measures during mining operation for conservation and protection of endangered fauna namely <i>Melursus urcinus</i> (bear) etc. spotted in the study area in consultation with the concerned forest officials. Action plan for conservation of endangered fauna should be prepared and submitted to the Ministry and its Regional Office within 3 months. | taken during mining operation for conservation and protection of endangered fauna |
| | (XVI) | A Final Mine Closure Plan along with details of Corpus Fund should be submitted to Ministry of Environment Forests 5 years in advance of final mine closer for approval. | Agreed. |

| | | | |
|--|-----------|---|--------------------|
| | B. | General Conditions: | |
| | (I) | No change in mining technology and scope of working should be made without prior approval of Ministry of Environment & Forests. | Agreed upon. |
| | (II) | No change in the calendar plan including excavation, quantum of mineral coal and waste should be made. | Agreed upon. |
| | (III) | Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with local forest department and experts. | Shall be complied. |
| | (IV) | Four Ambient Air Quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x & CO monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. | Shall be complied. |
| | (V) | Data of Ambient Air Quality (RPM, SPM, SO ₂ , NO _x & CO) should be regularly submitted to the Ministry including its Regional Office at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in Six months. | Shall be complied. |
| | (VI) | Fugitive dust emissions from all sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul road, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained. Vehicular emission should be kept under control and regularly monitored. | Shall be complied. |
| | (VII) | Drills should either be operated with dust | Shall be complied. |

| | | | |
|--|--------|--|--|
| | | extractors or should be equipped with water injection system. | |
| | (VIII) | Adequate measures should be taken for control of noise level below 85 dBA in the work environment. Workers engaged in blasting and drilling operations of IICMM, etc should be provide with ear plugs/muffs. | Shall be compiled. |
| | (IX) | Industrial waste water (work shop and waste water from mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May,1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluent. | Shall be compiled. |
| | (X) | Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribed by the competent authority. | Mine water is non acidic. |
| | (XI) | 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 program of the workers should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures, if needed. | Dust masks will be provided to all Persons working in dusty Environment. Initial Vocational Training will be given to all employees at the time of appointment. Apart from that, issues on safety and health aspects are regularly discussed in Safety Committee Meeting every month. Initial Medical checkup of all workers done at the time of appointment. Regularly medical checkup will be performed. |
| | (XII) | 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 Organization. | Separate Environmental Management Cell is already in place. |
| | (XIII) | The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal. | Budget & expenditure for EMP are maintained separately and not diverted for other purposes. |
| | (XIV) | The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports. | Agreed. |
| | (XV) | A copy of clearance letter will be marked to concerned Panchyat/ local NGO, if any, from whom and suggestion/ representation has | Agreed & complied |



| | | | |
|----|--------|---|----------------|
| | | been received while processing the proposal. | |
| | (XVI) | State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tahsildar's office for 30 days. | Not applicable |
| | (XVII) | 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 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 may also be seen at web site of the Ministry of Environment & Forests at http://envfor.nic.in | Agreed. |
| 3. | | The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection. | Agreed up on. |
| 4. | | Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986. | Agreed. |
| 5. | | The environmental clearance accorded shall be valid for a period of 5 years for starting construction/ operation of the power plant. In case, the project authorities fail to do so within this stipulated period, this environmental clearance shall stand lapsed automatically. | Agreed. |
| 6. | | The above conditions will be enforced <i>inter-alia</i> , under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules. | Agreed. |

~~XXXX~~