



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC vide letter no- J-11015/133/2005 - IA.II (M) dated 14-03-2006

For

Waghoda Underground Expansion Project (0.39 MTPA) located in Village- Waghoda, Tehsil-Saoner, District-Nagpur in Maharashtra State

for

the period from 01/10/2022 to 31/03/2023 submitted in fulfilment of the compliance of EC Condition

**Submitted by:
Office of the Sub Area Manager,
Saoner Sub Area,
Village-Waghoda, Tehsil – Saoner,
District- Nagpur in Maharashtra State, India
M/s. Western Coalfields Limited, Nagpur**

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A. Specific Conditions		
Sn	Statutory compliance	Compliance/ Status
i.	Topsoil should be stacked properly within proper slope at earmarked site (s) and should not be kept active and shall be used for reclamation and development of green belt.	Condition is not applicable on underground mine. As it is an under-ground mine, very little quantity of topsoil has been removed during excavation of incline mouth. As informed same has been used for green belt development near the mine.
ii.	Garland drains (size, gradient & length) around the safety areas such as mine shaft and low-lying areas to prevent mine inundation 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 mines site and to drain the water away from mine workings. Sump capacity should also provide adequate retention period to allow proper settling of silt material.	PA agree to comply with the condition in future, if required. As mine is under development stage and drains have been provided at mouth of the incline to avoid water inflow into the mine during rainy season. After mine development phase, sump will be created in the underground section for settling of silt material.
iii.	The mouth of the incline should be raised by a minimum 3m above the HFL of the River Kolar.	Complied. Mouth of the incline is minimum 3 meter above HFL of the Kolar River.
iv.	Crushers at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emission from crushing operations, conveyor system, haulage roads, transfer points, etc.	Not applicable at present, although PA agree to comply with condition with due course of time as mine is under development stage at present. It is submitted that no CHP will be provided at the project. Further, water sprinkling arrangement will be made for hopper, conveyor,



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		system, haulage roads, transfer points, etc. after start of mine.
v.	Regular monitoring of subsidence movement on the surface over working area and impact on water bodies/vegetation/structures/surrounding should be undertaken till movement ceases completely. In case of observations of any high rate of subsidence movement, appropriate measures should be undertaken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil or any suitable material.	PA agreed to comply with due course of time as mine is under development stage at present.
vi.	The proponent should take all precautionary measures for protection of surface features by leaving developed coal pillars below them. Further, the protective coal pillars within the subsidence influence area should not be disturbed to avoid danger of inundation.	PA agreed to comply with due course of time as mine is under development stage at present.
vii.	The proponent should check the possibility of existing faults before deciding about thickness of safe barriers required to be maintained between the working face and the river in consultation with the Director General of Mines Safety (DGMS). Depillaring should be carried out only after taking prior approval of the DGMS.	PA agreed to comply with due course of time as mine is under development stage at present.
viii	Study report on subsidence and stage	PA agreed to comply with due course of



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.	wise development plan starting from 5th year of operation till the end of mine at an interval of 5 year should be submitted to MOEF within six months.	time as mine is under development stage at present. This Mine yet to start the production operations. Incline drilling is in progress.
ix.	A progressive afforestation plan shall be prepared and implemented for green belt development, along roads, along ML boundary, township outside the lease area, etc 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.	PA agreed to comply with due course of time as mine is under development stage at present. As this is an Underground mine, PA is having limited surface rights. It is submitted that greenbelt will be developed at mines office, other surface infrastructure, colony etc.
x.	The company shall put up artificial ground water recharge measures for augmentation of ground water resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to de-watering of the mine.	PA agreed to comply with due course of time as mine is under development stage at present. Roof top rainwater harvesting system (recharge pits) has already been provided for the mines office building. And lamp house.
xi	Regular monitoring of ground water level and quality should be carried out by, establishing a network of existing wells and construction new Piezometers. The monitoring for quantity should be done four times in a year - 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 the Central Pollution Control Board quarterly within one month of monitoring,	PA agreed to comply with due course of time as mine is under development stage at present.
xii	The company shall put up artificial groundwater recharge measures for	PA agreed to comply with due course of time as mine is under development stage at



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	augmentation of groundwater resource. The project authorities should meet water requirement of nearby village (s) in case the village wells go dry due to dewatering of mine.	present. A list of the existing and proposed artificial groundwater recharge arrangements installed at Project are attached. (Annex-1.A)
xiii	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its Regional office Bhopal.	PA agreed to comply with due course of time as mine is under development stage at present.
xiv	A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	Complied. Mine closure plan approved by WCL Board in 277 th meeting of the Board of Directors of WCL on dated 25.05.2016 vide item no. 277/C-2 and letter no. 2016/243 dated 07.06.2016. (Annex-2)
		Escrow account for corpus fund has been maintained at PNB, Jaripattka Branch of Nagpur vide renewed account no. 08971076000001009 and having balance of Rs. 64,96,832 as on 31.03.2022. Copy attached. (Annex-2.A)

B. Specific Conditions

i.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	PA agreed to comply with due course of time as mine is under development stage at present.
ii.	No change in the calendar plan including excavation, quantum of mineral coal and waste should be	PA agreed to comply with due course of time as mine is under development stage at present.

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	made.	
iii.	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 meteorological data, topographical features and environmental and ecologically sensitive targets in consultation with the State Pollution Control Board.	PA agreed to comply with due course of time as mine is under development stage at present. Monitoring locations will be decided after commencing of production operations. However, PA is going to start carrying out the ambient air quality monitoring at the mine pit area to assess the baseline levels during incline drivage activity. Additionally, air and water monitoring through one ambient air monitoring station and water monitoring station will be ensured by May 2023.
iv.	Data on ambient air quality (RPM, SPM, SO ₂ & No _x) 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.	PA agreed to comply with due course of time as mine is under development stage at present.
v.	Fugitive dust emissions (SPM & RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained.	PA agreed to comply with due course of time as mine is under development stage at present.
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, operations of HEMM, etc. should be provided with earplugs / muffs.	PA agreed to comply with due course of time as mine is under development stage at present.
vii.	Industrial wastewater (workshop and waste water from the mine) should be	PA agreed to comply with due course of time as mine is under development stage at



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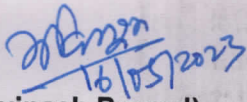
	properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	present.
viii	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	PA agreed to comply with due course of time as mine is under development stage at present.
ix.	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	PA agreed to comply with due course of time as mine is under development stage at present.
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.	PA agreed to comply with due course of time as mine is under development stage at present. All the working personnel in dusty areas will be provided with dust masks. The workers will be given training/refresher training in VTC on safety and health aspects which is also a statutory requirement under Mines Act 1952. For surveillance of occupational health among workers periodic medical examination is being done for employees once in five years, as per statute.
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.	Complied. There exists a three-tier environment management set up in WCL as detailed below:

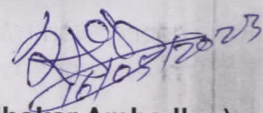
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		<p><u>At HQ, WCL</u>- The cell is headed by GM (Env) reporting to Director Technical. The team comprises of multi-disciplinary trained executives.</p> <p><u>At Area level</u> – Area General Manager heads the Environment Department assisted by GM (Oprn), &Area Nodal Officer (Environment) of Environment discipline.</p> <p><u>At Unit Level</u>-Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level.</p> <p>Organizational chart of the Company at link - http://www.westerncoal.in/index1.php/StaticPage/123 attached as (Annex-3)</p>
xii.	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 at Bhopal.	<p>Complied.</p> <p>The funds earmarked for environment protection measures are kept in separate account and it is not used for any other purpose. (Annex-4)</p> <p>PA agreed to comply with due course of time as mine is under development stage at present.</p>
xiii	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.	PP has consented to condition.
xiv	A copy of clearance letter will be marked to concerned Panchayat / local	Complied.

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	NGO, if any, from whom and suggestion / representation has been received while processing the proposal.	Copy of EC submitted to Gram Panchayat, Waghoda vide letter dated 20.04.2006. Copy of EC has been uploaded on company website at link- http://www.westerncoal.in/index1.php/StaticPage/154 (Annex-5)
xv.	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 as condition does not pertain to Project Proponent.
xvi	The project authorities should advertise at least in two local newspapers widely circulated around the project, once of which shall be in the vernacular language of the locality concerned within seven days 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 may also be seen at web site of the Ministry of Environment & Forests at http://envfor.nic.in .	Complied. Copy of the advertisement in two newspaper widely circulated around the project is attached. (Annex-6) EC was submitted to Gram Panchayat, Waghoda vide letter dated 20.04.2006. A copy of EC has been uploaded on company website at link- http://www.westerncoal.in/index1.php/StaticPage/154 (Annex-5)


16/05/2023
(Avinash Prasad)
GM (Mining)/ Sub Area Manager,
Saoner Sub Area, Nagpur Area.
M/s. WCL, Nagpur


(Sudhakar Ambadkar)
Mine Manager,
Waghoda Underground Mine,
Saoner Sub Area, Nagpur Area.