

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC vide letter no- J-11015/332/2008-IA. II (M) dated 22-10-2010

regarding

Expansion of Saoner UG Project (0.96 MTPA to 2 MTPA in ML area of 2871.39 ha) located in Village- Borgaon, Tehsil-Saoner, District- Nagpur in Maharashtra State

for

the period from 01/04/2022 to 30/09/2022 submitted in fulfilment of the compliance of EC Condition

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

A.	Specific Conditions	
Sr No.	Statutory compliance	Compliance/ Status
L	Regular monitoring of subsidence movement on the surface over and around the working area & impact on natural drainage, water bodies, vegetation, structure, roads and surrounding shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable materials.	Complied. Mine is in operation for coal production through development. During development, there is no subsidence has been reported so far. Additionally, depillaring is being done after taking due permission and guidelines of DGMS. Monitoring of subsidence movements & necessary Control measures are being taken as per DGMS stipulations in routine.
11.	Mining shall be carried out as per statute as a safe distance from the river and nallah flowing within the lease boundary.	Not Applicable. There is no any nallah/river flowing within the lease boundary.
o made o made o made	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Not Applicable. No subsidence is observed so far, although plantation of 2.855 lacs is already done in the different area of the mine as on 31.03.2022.
iv.	Coal extraction including depillaring shall be carried out as per statute in areas where agricultural production is continuing, areas of habitation & water bodies, roads, etc.	Complied. All mining activities are being carried out as per norms of DGMS considering the statute and agriculture production, area of habitation and water bodies etc.

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v.	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	Not applicable. No subsidence is observed so far exceeding the permitted limits.
vi.	Garland drains (size, gradient & length) around the safety areas such as mine shaft and low-lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mines sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.	Complied. Since this is a U/G mine, so, no waste rock piling will be there. However, during depillaring, necessary measures like construction of garland drains etc have been taken up as per DGMS stipulations.
vii.	Water sprinkling system shall be provided to check fugitive emission from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.	Complied. 21 nos. of fixed sprinklers are provided & maintained in BG siding + 7 nos. sprinklers in weigh bridge at Saoner- mine.
vIII.	A progressive afforestation plan shall be prepared and implemented over the mine lease area and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township outside the lease area, etc by planting native plant species in consultation with the local DFO/Agriculture Department.	Complied. For developing green belt around mine lease area, roads, etc. 2.855 Lakhs Plants have been planted. Plantation has been carried out through State Forest Agency. The current density per Hectare is 2500 plants.
ix.	Regular monitoring of ground water level and quality shall be carried out by, establishing a network of existing wells and construction of new Piezometers. The monitoring for quantity shall be	Complied. Monitoring of ground water level in core and buffer zone is carried out four times in a year and water quality analysis is done once in a year by establishing a network of the existing wells.

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done four times in a year – premonsoon (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
quarterly within one month of
monitoring. The quality of groundwater
shall be randomly got analysed through
laboratories recognized under the EPA
Rules 1986.

Additionally, two nos. of the piezometers are going to be fitted with Digital Water Level recorder with and without telemetry system (deep and shallow) by March 2023 to monitor the impact of mining on ground water level in core zone. Moreover, quality of ground water is being monitored by NABL accredited lab on fortnightly basis. A copy of the report is attached and is regularly submitted to RO, MoEF&CC and MPCB Office.

(Annexure-1)

The quality of groundwater is randomly analysed through State Pollution Control Board laboratories during their surprised visit.

x. The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities should meet water requirement of nearby village (s) in case the village wells go dry due to dewatering of mine.

Complied.

Monitoring of ground water level in core and buffer zone is carried out four times in a year and water quality analysis is done once in a year by establishing a network of the existing wells. (Annexure-1)

Where, no declining of ground water table has been observed till date. The project authorities are continuously meeting water requirement of nearby village (s) by implementation of the RO, plants in the Waghoda village (1,000 liters per hour), Nilgaon village (1,000 liters per hour) and Patansaongi villager (10,000 liters per hour). Ground water report attached. (Annexure-2).

xi. 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 check-up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a

Complied.

Personal working in dusty areas is provided with dust masks. Periodical health check-up of mine workers is carried out once in 5 years with the purpose of detecting occupational diseases & hearing impairment. Every worker in the mine is examined in 5 years- up to the age of 45 the

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period of one year and the results reported to this Ministry and to DGMS.

workers who are above 45 years are subjected to periodic medical examination at three years

Area Hospitals such as J N Hospital and Walni Hospital is having 50*2 total 100 nos. of bedding capacity.

At present, since opening no such occupational diseases and or hearing impairment has been recorded. Year wise PME/IME details are as below:

Year	PME (Employ ee)	PME (Contractu al workers)	(Contractu al workers)
2019	59	0	87
2020	62	0	107
2021	0	0	4
2022	26	19	61
Total	147	19	259

Normally Periodical Medical Examination is done each year @ of 20% of total employees in mine. This also covers contractual workers. In addition to this 10% of workers examined by NIMH trained doctors of Central Govt. Organization. PP take remedial action on report of every such examination.

(Annexure-3).

Xii.

Activities under CSR undertaken for the neighboring villages shall be for not less than Rs. 5 per ton of coal and the progress made thereon shall be uploaded on the company annually on the company website.

Complied.

CSR activities are being done in nearby villages. Ground water is recharged by making check dam in Boregaon Village under Kalmeshwar tehsil in Nagpur district and then water is pumped to Overhead tank and water supply to Boregaon villagers.

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B. Sr	General Conditions Statutory compliance	Compliance/ Status
xiii.	A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment and Forests within 5 years in advance of final mine closure for approval.	Complied. The mine has got balance life of around 37 years. Mine closure plan as per MOC guidelines has been prepared & duly approved by competent authority. The Escrow Account with CCO has been opened vide no 08973161002539 & deposited separately, approval for the same got by WCL Board on dt. 28.01.2013. (Annexure-5)
		One community centre has been constructed in Nillgaon also. One R.O Plant of 10,000 ltrs per day has been installed at Nilgaon village for drinking water supply to the villagers. Mine Discharged water is being used for irrigation purpose by local farmers by inserting their own electrical pumps. Project proponent has successfully displayed the CSR activities along with expenditure statement company website (link- http://www.westerncoal.in/index1.php/StaticPage/147) since 2010-11 onwards. All efforts are made and in progress to complete the CSR commitments for the improvement of the facilities in the neighboring villages. The detailed CSR Works undertaken in Nagpur Area for the last 10 years are available on the aforesaid link. (Annexure-4)

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i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	PP has consented to condition.
II.	No change in calendar plan including quantum of mineral coal and waste shall be made.	PP has consented to condition.
III.	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RSPM, SO ₂ & NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmental and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in SPM and RSPM etc. shall be carried out at least one in six months.	Installation of Continuous ambient air quality monitoring stations has been completed & working properly in Adasa UG to OC Mine (in close vicinity mine). One more CAAQMS is proposed to be installed on or before March 2023 in Saoner UG mine. (Annexure-6). Four ambient air quality monitoring station covering core as well as buffer zone are established and mentioned in the report attached. (Annexure-7) The stations have been fixed considering the meteorological data, topographical features etc. The monitoring is carried out with due prior intimation to MPCB. Monitoring data is being submitted to MOEF &CC & MPCB regularly. The monitoring results for period of 01.04.2022 to 30.09.2022 attached. (Annexure-8).

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Moreover, monitoring of heavy metals such as Ha, As, Ni, Cd, Cr, etc. are being carried out every six months. Latest report of heavy metal monitoring is also enclosed (Annexure- 9). Data or ambient air quality (SPM, RSPM, Complied. iv. SO2& NOx and heavy metals such as Installation of Continuous ambient air quality Hg, As, Ni, Cr, etc.) shall be regularly monitoring stations has been completed & submitted to the Ministry including its working properly in Adasa UG to OC Mine (in Regional Office at Bhopal and to the close vicinity mine). One more CAAQMS is State Pollution Control Board and the proposed to be installed on or before March Central Pollution Control Board once in 2023 in Saoner UG mine. six months. Random verification of samples through analysis (Annexure- 6). independent laboratories recognized under the EP Rules, 1986 shall be Four ambient air quality monitoring station furnished as part of the compliance covering core as well as buffer zone are report. established and mentioned in the report attached. (Annexure-7) The stations have been fixed considering the meteorological data, topographical features etc. The monitoring is carried out with due prior intimation to MPCB Monitoring data is being submitted to MOEF &CC & MPCB regularly. The monitoring results for period of 01.04.2022 to 30.09.2022 attached. (Annexure- 8). Adequate measures shall be taken for Complied. V. control of noise levels below 85 dBA in This is a U/G mine & no heavy earth moving mathe work environment. Workers chines are employed for coal mining. Entire Opengaged in blasting and drilling eration for coal extraction is carried out below operations, operations of HEMM, etc. ground by machines i.e. SDLs, drills, haulages.

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	shall be provided with earplugs / muffs.	conveyors etc, duly approved by DGMS. As such, possibility of generation of high noise levels is very remote. However, haulage operators, Belt conveyor operators are provided with earmuffs etc. Noise monitoring is also carried out near w/shop premises. Results show that levels are within the permissible limits. A copy of the Noise monitoring report is attached.
		(Annexure – 6).
vi.	industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to confirm 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 shall be installed before discharge of workshop effluents. Mine water shall be treated upto the prescribed standards in case discharged outside the premises.	Not Applicable. Saoner being an underground mine, there is no provision of workshop to repair/wash HEMMs, thus eliminating possibility of generating oil & grease. Hence, provision of oil & grease trap has not been made. The mine water/strata water gets accumulated in mine sumps (3Nos), which allows significant settling of suspended particles. Thereafter, mine water is pumped out on surface which is used at CHP belt & mine premises for dust suppression. The balance water is treated at water treatment plant for domestic use in colony.
vii.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation the mineral shall be covered with tarpaulins and optimally loaded.	Complied. Vehicles used for transporting the mineral are covered with tarpaulins and optimally loaded. (Annexure-9).
viii.	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the Sate Pollution Control Board and	Complied. Installation of Continuous ambient air quality monitoring stations has been completed & working properly in Adasa UG to OC Mine (in close vicinity mine). One more CAAQMS is

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	data got analysis through a laboratory recognized under EP Rules, 1986	proposed to be installed on or before March 2023 in Saoner UG mine.
		(Annexure- 6).
		Four ambient air quality monitoring station covering core as well as buffer zone are established and mentioned in the report attached. (Annexure-7)
		The stations have been fixed considering the meteorological data, topographical features etc. The monitoring is carried out with due prior intimation to MPCB.
		Monitoring data is being submitted to MOEF &CC & MPCB regularly. The monitoring results for period of 01.04.2022 to 30.09.2022 attached. (Annexure- 8).
ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Complied. This being a U/G mine, generation of dust is mainly limited to U/G face workings. The dust control measures are being taken as stipulated in Coal Mines Regulation. Proper training & retraining of workers are given as per Mines Vocational Training Rules Copy attached.
		Periodic medical examinations of workers are also done every five years.
x.	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.	Complied. Personal working in dusty areas is provided with dust masks. Periodical health check-up of mine workers are carried out once in 5 years with the purpose of detecting occupational diseases & hearing impairment. Every worker

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in the mine is examined in 5 years- up to the age of 45; the workers who are above 45 years are subjected to periodic medical examination at three years interval.

Area Hospitals such as J N Hospital and Walni Hospital is having 50*2 total 100 nos. of bedding capacity.

At present, since opening no such occupational diseases and or hearing impairment has been recorded. Year wise PME/IME details are as below:

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(Annexure-3).

xi. 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 company.

Complied.

There exists a three-tier environment management set up in WCL as detailed below:

At HQ, WCL- The cell is headed by GM (Env) reporting to Director Technical. The team

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		comprises of multi-disciplinary trained executives.
		At Area level – Area General Manager heads the Environment Department assisted by GM (Oprn), & Area Nodal Officer (Environment) of Environment discipline.
		At Unit Level-Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level. Organizational chart of the Company at link - http://www.westerncoal.in/index1.php/StaticPage/123 attached as (Annexure-10)
xii.	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office at Bhopal.	Complied. The funds earmarked for environment protection measures are kept in separate account and it is not used for any other purpose. Expenditure statement is shown in every six-monthly compliance report sent to MoEF&CC. (Annexure-11)
		Capital Expenditure till 30/09/2022 is Rs. 14.49 lakhs Revenue Expenditure till 31/03/2022 is Rs 272.66 lakhs. A copy of the last three financia year environmental expenditure is attached as (Annexure-12)
xiii.	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 letter	Complied. Necessary advertisement was issued in the following newspapers: 1) Times of India

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	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	Dt. 19-11-2010 2) Sakal. (Marathi) Dt. 19.11.2010 (Annexure-13).
xiv.	A copy of the environmental clearance letter shall be marked to concerned Panchayat / Jillha Parishad / Municipal Corporation or Urban Local Body / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	Complied. Copies of the clearance letter have already been handed over to concerned village Panchayats. No suggestion / representation has been received. A copy of the clearance letter has already been displayed at company website and EC was also sent to Regional Officer, MPCB, Nagpur for the stated purpose. (Annexure-14).
XV.	A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days.	Complied. A copy of the clearance letter has already been displayed at company website and EC was also sent to Regional Officer, MPCB, Nagpur for the stated purpose. Company's website regularly at link http://www.westerncoal.in/index1.php/StaticPage/154 (Annexure-14)
xvi.	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the	Complied. A copy of the clearance letter along with lates compliance status in respect of the EC conditions has been display at company website and is in public domain. Company's website regularly at link http://www.westerncoal.in/index1.php/StaticPage

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public domain. The monitoring data of

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environmental quality parameters (air, e/154 (Annexure-15) water, noise and soil) & critical pollutants such as SPM, RPM, SO2 and Additionally, the monitoring data of environmental quality parameters (air, water, noise and soil) NOx (ambient and stack if any) and & critical pollutants such as SPM, RPM, SO2 and critical parameters shall also be NOx (ambient is being displayed at the entrance displayed at the entrance of the project of the project premises and mines office and in premises and mines office and in corporate office and on the company's website. corporate office and on the company's website linkhttp://www.westerncoal.in/index1.php/StaticPag e/153 (Annex-16) The project proponent shall submit six Complied.)xvi i. monthly reports on the status of The project proponent is submitting the six stipulated compliance of the monthly reports on the status of compliance of environmental clearance conditions the stipulated environmental clearance condi-(both in hard copy and in e-mail) to the tions (by e-mail) to the Regional Office of the respective Regional Office of the MOEF, MOEF, Nagpur and MPCB, Nagpur. Copy atthe respective Zonal offices of CPCB tached. and the SPCB. (Annexure-17) The Regional Office of this Ministry Noted, agreed and complied. xvii ì. located at Bhopal shall monitor PP is extending full cooperation to the officer(s) stipulated compliance of the of the Regional Office by furnishing the requisite conditions. The project authorities data / information / monitoring reports. Monitorshall extend full cooperation to the ing status of implementation of EC compliance officer(s) of the Regional Office by conditions is being sent half-yearly to RO, MOEF furnishing the requisite data / & CC, Nagpur. information / monitoring reports. The environmental statement for each Complied. xix. financial year ending 31st March in form-The Environmental Statement for each financial V is mandated to be submitted by the year is filled online in Form-V before 30th project proponent to the concerned State Pollution Control Board as September of each year for onward submission Maharashtra Pollution Control Board. prescribed under the Environment

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(Protection) Rule, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Officers of the MOEF by Email.

Acknowledge receipt for the Environmental Statement for FY 2020-21 and FY 21-22 is attached as (Annexure-18).

The audit statement is also uploaded on company website at linkhttp://www.westerncoal.in/index1.php/StaticPag e/265 (Annexure-19).

> Colliery Manager, Saoner UG Mine, Saoner Sub Area,

> > WCL, Nagpur Area

Dy. GM (Min)/Sub Area Manager, Saoner Sub Area, Nagpur Area WCL.