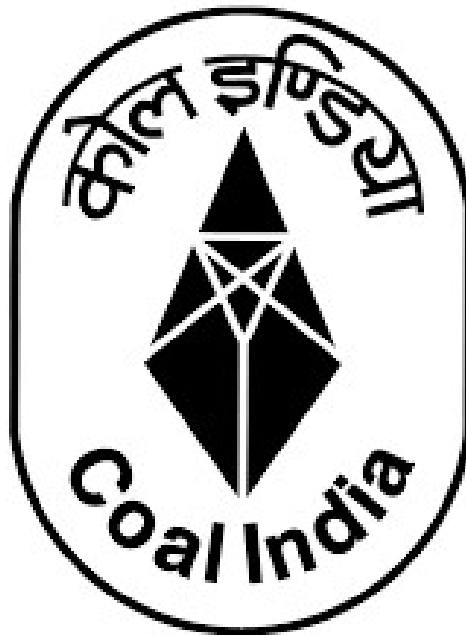


E.M.P. COMPLIANCE REPORT

AS ON 01.04.2023

HINDUSTAN LALPETH (I&III) UG EXPANSION PROJECT



WESTERN COALFIELD LIMITED
CHANDRAPUR AREA

PART-IV

Project : HINDUSTHAN LALPETH COLLIERY NO.1 & 3
 Environmental Clearance: FOR COAL PRODUCTION CAPACITY OF 0.18 M Te/Yr
 Ref : No. J-11015/182/2006.IA.II(M) dt;17/10/2006

COMPLIANCE REPORT AGAINST ENVIRONMENTAL CLEARANCE

S.No.	A. Specific Conditions	Compliance
i)	The lease areas of Hindusthan Lalpeth UG and of Mahakali UG shall be revised and recast before the mine working of the present project progresses into the lease area of the Mahakali UG Project.	The lease areas of Hindusthan Lalpeth U/G and of Mahakali UG is revised and recast. Presently the workings of Hindusthan Lalpeth Colliery within the common lease boundary of Mahakali Colliery is exhausted, sand stowed and sealed off.
ii)	All the conditions stipulated by the SPCB in their NOC shall be effectively implemented	<p>The following conditions stipulated in their NOC were implemented during the operation of mine.</p> <ol style="list-style-type: none"> 1) Coal handling plant provided with water sprinkler. 2) Spraying of water on working areas, truck movement area is being done. 3) Tree plantation done along boundary of mine area. 4) Black top metal road provided for coal transportation. <ol style="list-style-type: none"> (a) Black topping road from Railway under bridge to Worker Institute. (b) Black topping near Rajiv Gandhi Engineering College to Railway Siding. 5) Coal transportation trucks are covered with tarpaulins. <p>The mine has stopped production since 12-10-2017.</p>
iii)	No mining operations shall be undertaken in the forestland until clearance has been obtained under the provision of FC Act, 1980	Vide our letter No. WCL/CHA/CGM/PLG/REV/10634 dtd.28/11/05, proposals for ex-post facto approval for diversion of forest land under Section-2 of Forest (Conservation) Act-1980 for 216.25 ha. for mining lease including 46.90 ha. for surface for Hindusthan Lalpeth Colliery has already been submitted. Stage -I FC received in 2008. Mine has stopped operations since 12-10-2017

iv)	Regular Monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structures, roads, 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	The C.M.R.S. team Dhanbad investigated subsidence over Panel-E from 24/7/1985 to 26/4/1988 within a depth of cover 60.00 mtr. to 113.00 mtr. As per the record and observation of pillar no subsidence is found. However regular monitoring of subsidence shall be taken over the working panels and if any cracks is observed it shall be effectively plugged with ballast and clayey soil/suitable material. The subsidence prediction study carried out by CMRI, for U/G coal extraction with hydraulic sand stowing was incorporated in the EIA/EMP submitted to MOEF. The depillaring is carried out after taking due permission from DGMS. All conditions with respect to precautionary measures as well as monitoring, etc. are stipulated in the permission letter & are adhered to during actual depillaring operations in the mine. The implementation of the stipulated conditions are also monitored by DGMS.
v)	Garland drain (size, gradient & length) around the safety areas such as mineshaft 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 site. Sump capacity should also provide adequate retention period to allow proper setting of silt material.	This is U/G mine hence not applicable
vi)	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, haulage roads, transfer points etc.	Mine has stopped production since 12/10/2017
vii)	Drill should be wet operated only	Mine has stopped production since 12/10/2017
viii)	Controlled blasting should be practiced with the use of delay detonators.	Mine has stopped production since 12/10/2017
ix)	A Progressive afforestation plan shall be prepared and implemented for the undisturbed area and shall include areas under green belt development areas 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.	The mining lease within 216.25 ha. Forest land is covered by deep forest and other revenue land is covered by colony and hutments. However it is proposed for plantation around mine Mini C.H.P. and coal/sand transportation road within mining lease area. Till date plantation of 600 nos carried out in 0.24 Ha in HLC UG mine

x)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. The monitoring for water levels should be done at least 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 MOEF & CGWB, Regional Office quarterly within one month of monitoring.	Complied. The ground water level are being monitored four times in a year i.e. in the month of May, August, November and January and the reports are submitted to MOEF & CGWB Regional Office. Copy of the last report <u>period- Nov-Dec 2021 (post-monsoon) & Jan-Feb -2022 (winter)</u> is enclosed.
xi)	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater 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.	In the U/G Mines there is no adverse impact on shallow aquifer being harnessed by surrounding population. Rooftop rainwater harvesting has been proposed for office premises in line with CGWA guidelines. However most of the mine discharge water is re-circulated for sand stowing purpose and balance is used for filter plant. From the filter plant the water is supplied to local population viz-residential colony, Chandrapur Engineering College and Babupeth Railway Station.
xii)	The Company shall obtain approval of CGWA/CGWB Regional Office for use of ground water for mining operation.	Application submitted to Reginal Director (CGWB) Vide letter No. WCL/ENV/HQ/17-U&20-J/55 Dtd. 16.03.2017. Revised application has been submitted Application Number: 21-4/7863/MH/INF/2022 under infrastructure category as the mining operations has stopped.
xiii)	Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP waste water	Soak pit & Septic tank is already provided to existing colony. Since it is an underground mine there is no need of E.T.P. for workshop and Mini C.H.P.
xiv)	Besides carrying out regular periodic health check up 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, Ahemedabad within a period of one year and the results reported to this Ministry and to DGMS.	Complied PME details :- 2016-2017 - 138 2017-2018 - 078 2018-2019 - 042 2019-2020 - 031 2020-2021 - 041 2021-2022 - 022 2022-2023 - 032
xv)	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 at Bhopal.	Done by CMPDIL through remote sensing every 3 year

xvi)	A final mine closure plan along with details of corpus fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	A final mine closure plan 5 years in advance shall be submitted to the Ministry of Environment and Forest for approval.
xvii)	Consent to operate shall be obtained before starting mining operation.	Mine has stopped production since 12/10/2017. CTO Consent No. BO/JD/(APC)/UAN No. 1997/R/CC-0241 DT.07/12/2017 Valid Upto 31/03/2020

Sl.	B. General Conditions	Compliance															
i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest.	Noted for compliance															
ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Mine has stopped production since 12/10/2017															
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 , Nox & CO monitoring location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultations with the State Pollution Control Board.	<p>Ambient Air quality monitoring stations are fixed within mining lease area in consultations with the State Pollution Control Board. The locations are given below.</p> <table> <tr> <td><u>S.No.</u></td><td><u>Location Details</u></td><td><u>Location code</u></td></tr> <tr> <td>1.</td><td>Sub station - Hindusthan Lalpeth Colliery-UG</td><td>CH1 UA-1/CH3 UA-1</td></tr> <tr> <td>2.</td><td>Pit Office HLC-1</td><td>CH1 UA-2/CH3 UA-2</td></tr> <tr> <td>3.</td><td>HLC-III Colony</td><td>CH1 UA-3/CH3 UA-3</td></tr> <tr> <td>4.</td><td>Babupeth Area/</td><td>CH1 UA-4/CH3 UA-4</td></tr> </table> <p>Regular monitoring is done by authorized Agency Central Mine Planning & Design Institute Ltd. Kasturba Nagar, Jaripatka, Nagpur and quarterly reports are submitted to State Pollution Control Board.</p>	<u>S.No.</u>	<u>Location Details</u>	<u>Location code</u>	1.	Sub station - Hindusthan Lalpeth Colliery-UG	CH1 UA-1/CH3 UA-1	2.	Pit Office HLC-1	CH1 UA-2/CH3 UA-2	3.	HLC-III Colony	CH1 UA-3/CH3 UA-3	4.	Babupeth Area/	CH1 UA-4/CH3 UA-4
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4.	Babupeth Area/	CH1 UA-4/CH3 UA-4															
iv)	Data on 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 a six months.	Quarterly data on ambient air quality (RPM, SPM, SO ₂ , Nox & CO) is regularly submitted to State Pollution Control Board. The same report is being submitted to the Ministry including its Regional Office at Bhopal and Central Pollution Control Board once in a six months. The report for April-2022 to August-2022 is enclosed.															
v)	Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dump trucks, (loading & unloading) should be provided and properly maintained.	Complied															

vi)	Adequate measures should be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc should be provided with ear plugs/muffs,	Complied
vii)	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 & grease trap should be installed before discharge of workshop effluents.	U/G mine hence no ETP required
viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting and mineral should be covered with tarpaulin and optimally loaded.	NA.
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.	Well established environmental laboratory exists at CMPDI
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 surveillances program of the workers should be undertaken periodically to observe any contradictions due to exposure to coal dust and take corrective measures, if needed	Mining operations closed since 12/10/2017.. Every worker is subjected to periodic medical examination once in 5 years and workers engaged in U/G mines and having age above 50 years are examined once in 2 years. Based on the results of periodic medical examination, appropriate medical care & assistance is given to the affected worker.
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.	At project level, Environmental management cell is headed by Sub Area Manager and is assisted directly by Project Nodal Officer (ENV)/SE (C) at area level, Chief General Manager heads the cell assisted by Area Nodal Officer (ENV). At WCL H.Q./Corporate level HOD (ENV) heads the environmental department assisted by multi disciplinary team & qualified and trained engineers.
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 located at Bhopal.	Funds for environmental protection measures are kept separate and year-wise expenditure is reported through six monthly EMP compliance reports

xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Full co-operation to the officer(s) of the Regional office shall be done by furnishing the requisite data/information/monitoring reports.
xiv	A copy of clearance letter will be marked to concerned panchayat/local NGO. If any from whom and suggestion/representation has been received while processing the proposal.	Already Complied
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.
xvi	The Project authorities should advertise at lease in two local news papers 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 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 .	Already Complied.
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.	Noted
4	Failure to comply with any of the conditions mentioned above may result withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
5	The above conditions will be enforced inter-alia, 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.	Noted

COLLIERY MANAGER
HINDUSTHAN LALPETH COLLIERY
NO.1, CHANDRAPUR

SUB AREA MANAGER
HL SUB AREA

AREA NODAL OFFICER (ENV.)
CHANDRAPUR AREA.