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SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

**MOHAN (MAORI) UG MINE
(1.00 MTPA IN AREA OF 800 HA)
EC NO. - J-11015/123/2008-IA-II(M)
DATED 02.02.2009**



**WESTERN COALFIELDS LIMITED
KANHAN AREA
PO: DUNGARIA, CHHINDWARA (MP)-480553
PERIOD - APRIL 2024 TO SEPTEMBER 2024**

Monitoring Implementation of Environmental Safeguards

Ministry of Environment & forest

Western Regional, Regional office, Bhopal

MONITORING REPORT

DATA SHEET

[illegible]

		<p>MPPCB on 02.05.02</p> <p>iii) Environment Clearance for 0.45 MTY coal production issued by MOEF vide letter No J-11015/238/2005 IA.II (M) Dt:17.10.2006 and for 1.00MTY vide letter no. J-11015/123/2008-IA.II(M) dt. 02.02.2009</p> <p>a) Air Pollution Control measures</p> <ul style="list-style-type: none"> • Plantation in and around mine lease area • Water spraying on coal transportation road • RCC road provided to suppress dust. • Regular air quality monitoring is being done <p>b) Water Pollution Control Measures</p> <ul style="list-style-type: none"> • Sedimentation tank & filter plant provided. <p>c) Noise Pollution Control Measures</p> <ul style="list-style-type: none"> • Regular Maintenance of Machineries & Equipments. • Development of green belt in between industrial complex & residential area • Ear plugs & helmets to the workers. <p>d) Control of ground water depletion</p> <ul style="list-style-type: none"> • Roof Top rainwater harvesting structure constructed at Ambara Community Hall. <p>e) Disaster Management Plan</p> <ul style="list-style-type: none"> • Emergency Response Plan for ensuring safety against any disaster/accidents. <p>f) Progressive Mine closure Plan</p> <p>g) Monitoring & Management organization: for Smooth Working& handling of environment related jobs following organization is proposed.</p>		
		S.N	Measures/ Action	
		1	Environmental Control	<p>Agency/Responsibility</p> <p>1 General Manager, Kanhan Area</p> <p>2. GM(O) Kanhan Area</p> <p>3.Nodal officer (Env), KA</p> <p>4. Sub Area Manager, Moari UG</p> <p>5.Staff Officer (Civil), KA</p> <p>6. Environmental Cell (WCL H.Q)</p>

		2.	Environmental Monitoring & Control at Area Level	1 General Manger Kanhan Area 2. G.M.(O) Kanhan Area 3.Staff officer (Civil)Kanhan Area 4. .Nodal officer (Env), K. A. 5. Sub Area Manager Moari UG 6. Environmental Cell (WCL HQ) 7. Environmental Laboratory of CMPDI RI-IV
			At unit level	1. Sub Area Manager, Maori UG 2. Manager, Maori UG mine 2. Nodal officer (Env), Ambara Sub Area
7.	Break-up of the project Area A. Submergence area : forest & non- forest .Others	Not Applicable		
8.	Beak up of the project affected population with enumeration of those losing house/dwelling units only agricultural land only both dwelling units & agricultural land & landless laborers /artisans a) SC, ST/ Divas b) Others (Please Indicate Whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	Existing Mine, land already in possession hence not applicable		
9.	Financial Details a) Project cost as originally planned& subsequent revised estimate and the year of price reference b) Allocation made for environmental management plans with item wise r& year wise brake up c) Benefit Cost ratio /Internal rate of items of refund & year of assessment d) Whether includes the cost of environmental management as shown in above e) Actual expenditure incurred on the environmental management plans so far	Project Cost - Rs. 900 lakh Details of Expenditure on environmental management plans in last 3 years. Details also given in Part - III		

10	Forest land requirement a) The status of approval for diversion of forest land for non-forestry land b) The status of clearing /felling c) The status of compensatory afforestation ,if any d) Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	The mine is an old mine, taken over since nationalization. Forest Clearance for surface infrastructure of the mine has been obtained.			
11	The status of clear felling in non –forest areas (such as submergence area of reservoir, approach road etc) if any with quantitative information required	Existing mine already commenced. Mohan (Moari) U/G is running mine since 1975 (taken over mine & operated target capacity 0.45 MTY since 01.01.97)			
12	Status of construction (Actual & or planed) a) Date of commencement (Actual & or planed) b. Date of completion (Actual & or planed)	Not Applicable			
13	Reason for delay ,if project is yet to start	Not Applicable			
14	Date of site visit a) Date on which the project was monitored by the Regional office on previous occasions if any site visit b) Date of site visits for this Monitoring report	Mine is periodically inspected by MPPCB officials			
15	Details of corresponding with project authorities for obtaining act on plans /information on status of compliance to safeguards other than the routine letters for logistic support for site visits) (The first monitoring report may contains the details of all the letter issued so far ,but the later report may cover only the letter issued subsequently)	Noted			
		Head	2021-22 (in lakhs)	2022-23 (in lakhs)	2023-24 (in lakhs)
		1.Afforestation (Maintenance of plantation etc.	--	--	-
		2. Air, water, noise quality monitoring	20.16 (Monitoring Charges) 66.06(Installation of CAAQMS)	22.95 (Monitoring Charges) 11.87 (Drilling of Bore and Installation of Piezometer for GW monitoring)	35.83
		3.Water Cess/Payment to CGWA for obtaining NOC	10.87 lakhs	Nil	4.25
		4.Consent Fee	32.00 (For two years upto 31/10/2023)	Nil	32.00 (For two years upto 31/10/2025)
		5. Water Sprinkling	8.49	2.31	2.51
Total	137.58 lakhs	37.13 lakhs	74.59 lakhs		

WESTERN COALFIELDS LIMITED
Six Monthly Environmental Monitoring Report
Project of Kanhan Area for the period Apr'24-Sep'24
Mohan/(Maori)UG

Part –I

Name of the project	Mohan (Moari) U/G
Location & Address	Kanhan Area (WCL) Near Ambara Village Teh: Parasia,Dist.-Chhindwara M.P
Address for Corresponding Ambara Sub Area	Near Ambara Sub Area, Ambara Village Teh:Parasia,Dist.-Chhindwara M.P
MOEF's Clearance Letter No. & Date	J-11015/238/2005-IA II(M) Dt:-17.10.2006 (0.45MTY) J-11015/123/2008-IA.II(M) dt. 2.02.2009 (1.00 MTY)
Period of Status Report	1 st April'2024 to 30 th Sep'2024
Date of Commencement of Project work	01.01.97

Status of Land Acquisition:-

Type of Land	Required as per EMP (Ha)	Actual acquired (Ha)as on
Forest	551.676	Lease obtained under MCR and is valid till 31.03.2030
Agriculture	232.764	
Other (Government land)	15.560	
Total	800.00	

* This is total lease hold area 800 Ha. of the mine covered under Mining Right / MCR lease . Lease valid till 31.03.2030. Since it is an underground mine,taken over after Nationalization essential surface land for mine entries an infrastructure for 9.87 Ha. Already acquired Under C.BAct Mohan (Maori) Project is being used.

Status of Consent to Operate:-

a. Consent under water (prevention and Control of Pollution) Act	Consent no. AW 59005 dated 05/10/23valid upto 31/10/25.
b. . Consent under Air (prevention and Control of Pollution) Cess Act	Consent no. AW 59005 dated 05/10/23 valid upto 31/10/25.
c. Environment (Protection) Act	Environment statement for 2022-23 submitted online via xgn portal.

Part: II
Status of Environmental Monitoring

a. No Ambient Air Monitoring stations	Four Nos.
b. Name of Location (*) :-	1) SAM's Office - Ambara 2) Pit Office (Mohan) 3) Colony 4) Ambara Village
c. Ambient Air Quality Status for the parameters prescribed by status Pollution Control boards (average 95 % time weighted Values)**	Monitoring reports enclosed for period Apr'24 to Sep'2024

Water pollution control:-

a. No. of stations and frequency of monitoring :-there is only one station i.e. Mine discharge point and frequency of monitoring is once in a fortnight as per GSR 742 (E).

b. Description of location (*) :-Mine water discharge is monitored during operational stage of the mine. Quantity of effluent discharged to local water course from each source in cubic meter per day: - nil

Noise pollution Control:-

a. No. of noise monitoring stations: - 2 (Two)

b. Description of location (*) and db (a) value **: -

- | |
|--------------------------------|
| 1. Near fan house
2. Colony |
|--------------------------------|

(*) location of sampling stations are to be delineated on the working mine plan.

** Detailed report monitoring of noise as per statute to be enclosed

Part –III

Status of Implementation of Provision of EMP

Land use Status:-

S.N	Particulars	As per EMP	Current Year	Progressive
1)	Area excavated (ha)	NA	Not applicable as this is an U/G mine	
2)	Top soil removed	NA	Not applicable as this is an U/G mine	
3)	OB removed	NA	Not applicable as this is an U/G mine	
4)	OB backfilled	NA	Not applicable as this is an U/G mine	
5)	OB Dumped (mm3)	NA	Not applicable as this is an U/G mine	
6)	Area recovered for Reclamation (Physical Reclamation)	NA	Not applicable as this is an U/G mine	
	Area reclaimed biologically (Tree plantation on backfilled area)	NA	Not Applicable as this is an U/G mine	

Production:-

- 1) Targeted Capacity 0.45 MTPA (EC obtained for 1.00 MTPA)
- 2) Present Capacity 0.45 MTPA

Afforestation :-

Area Under plantation (Progressive): 81500 plants over an area of 32 Ha.

Nos of plants per hectare : 2500 per Ha.

Species Planted :Karonj ,Neem, Jamun,Casia, Acasia, Imli,
Silver Oak, Babool, Gulmohar etc.

Rehabilitations &Resettlement:-

It is old working Mine, operational prior to nationalization. Hence R&R is not applicable.

Expenditure:**Capital Account Head during FY 2023-24:**

Particular	Current	Progressive
Reclamation	NIL	NIL
Air Pollution Control	NIL	NIL
Water Pollution Control	NIL	NIL
Others	NIL	NIL

Revenue Head.- During last 03 years:

Heads	During 2021-22	During 2022-23	During 2023-24
1) Env. monitoring	20.16 lakhs (Monitoring Charges) 66.06 lakhs (Installation of CAAQMS)	22.95 (Monitoring Charges) 11.87 (Drilling of Bore and Installation of Piezometer for GW monitoring)	35.83 lakhs
2) Water Cess/Obtaining NOC from CGWA	10.87 lakhs	Nil	4.25 lakhs
3) Consent fees	32.00 lakhs for two years upto 31/10/2023	Nil	32 lakhs for two years upto 31/10/2025
4) Water Sprinkling	8.49 lakhs	2.31 lakhs	2.51 lakhs
Total	137.58 lakhs	25.26 lakhs	74.59 lakhs

Organizational Setup Project Level:-

Shri. Narendra Kumar Soni	SAM/Agent	Ambara Sub Area
Shri Pradeep Kumar Chand	Colliery Manager	Mohan U/G
Shri Ashok Kumar Soni	Manager(Min)/NO(Env.)	Ambara Sub Area

Name of Project:-Mohan(Maori) Under Ground Coal Mine Expansion Project (0.45 MT to 1.00 MTPA)

MOEF Environmental Clearance Letter No.J 1105/238/2005-IA.(II) Dated.-02.02.2009

Status of Implementation of Environmental Clearance conditions

S NO	Condition	Remarks/ Action
A)	Specific Conditions	
I	No Mining operation shall be undertaken in the forest land until clearance under provision of FC Act 1980	Noted for Compliance. Forest Clearances received from MOEFCC vide 8-133/2006-FC dated 17.07.2008 and 8-113/2011-FC dated 02.07.2015
II	Regular Monitoring of subsidence movement on the surface over & around the working area and impact on Natural drainage pattern, water bodies, vegetation, structures, roads, and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.	Subsidence is being monitored regularly and till date no subsidence on the surface has been observed. Depillaring is carried out as per DGMS guidelines and records of the same are maintained. The depillaring operation is started after taking due permission from DGMS. The conditions stipulated by DGMS in the permission are being followed & regularly monitoring for subsidence is being done.
III	High root density tree species shall be selected and planted over areas likely to be attended by subsidence.	Subsidence is being monitored regularly and till date no subsidence on the surface has been observed and records of the same are maintained.
IV	Coal Extraction Shall also be optimized in areas where agriculture production is continuing. Some pillars shall be left below the agriculture land. No coal depillaring shall be undertaken below areas of habitation.	Presently mine is temporarily discontinued since 07.09.2023. Subsidence is being monitored regularly and till date no subsidence on the surface has been observed. In the past depillaring operation in tenancy land was carried out, no subsidence was observed and reported by the habitants. The depillaring operation are carried out after taking due permission from DGMS. The conditions stipulated by DGMS in the permission are being followed & regularly monitoring for subsidence is being done.
V	Subsidence should be monitored closely and if the subsidence is found exceeding permitted limits, then the landowners should be adequately compensated with mutual agreement of the landowners.	Subsidence is being monitored regularly and till date no subsidence on the surface has been observed. Depillaring is carried out as per DGMS guidelines and records of the same are maintained. Presently mine is temporarily discontinued since 07.09.2023.
VI	Garland drain (size, gradient & length) around the safety areas such as mine shaft and low lying areas & 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 a UG mine and the precautions being taken to prevent the risk of inundation due to surface water as per CMR 1957. Adequate sump capacity provided in UG dip site working for settling of silt material.

VII	Water sprinkling system shall be provide to check fugitive emission from loading operations, conveyor system, haulage roads, transfer points, etc. Mobile sprinklers shall be provided in major haul roads and with high levels of SPM/RSPM.	03 Nos. of Fixed Water Sprinklers provided over conveyor belt. 01 Nos. of mobile water tanker (Capacity -4500 Litres) provided for dust suppression on coal transport roads. Presently mine is temporarily discontinued since 07.09.2023. Monitoring of Ambient Air quality and Water Quality is carried out once in a fortnight as per GSR 742 (E) dated 25.09.2000. The monitoring is carried out by Central Mine Planning and Design Institute Limited (CMPDIL), a NABL/ NABET approved laboratory. The measurement techniques follow the prescribed guidelines and Standards. The monitoring results are submitted along with six monthly EC compliance reports to MPPCB and MOEF, Bhopal.			
VIII	Major approach road shall be black topped and properly maintained.	All major coal transport road transport roads are black - topped			
IX	Drills shall be wet operated only to avoid fugitive dust emission.	In U/G mine drilling in coal faces is done by portable hand- held electric drill machine duly approved by DGMS.			
X	A progressive afforestation plan shall be prepared & 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 around by 2500 plants per Ha.	Total plantation 81500 has been carried out.			
		S.L No	Location	Area (Ha)	Nos.
		1	Total plantation including old plantation in and around the mine leasehold area	32 Ha	81500
XI	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells & 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) & winter (January) seasons & quality in May data thus collected should be submitted to the MOEF & CGWB, Regional office quarterly within one month of Monitoring	Monitoring of ground water level along with quality is being done through a certified agency, four times a year as specified. The annual ground water monitoring and groundwater quality reports are submitted to Regional Offices of MOEF Bhopal and CGWB Bhopal. Reports for the FY 2023-24 are enclosed.			
XII	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 village wells go dry due to de – watering of the mines.	Water is supplied to nearby villages through water tanker as & when required. A rooftop rainwater harvesting system has been provided at Community hall of Mohan UG mine			
XIII	Mine discharge water particularly TDS shall be treated to confirm to prescribed levels before discharge into the natural environment.	The mine has one Sedimentation tanks of capacity 300 m ³ . The mine water discharged is treated in two stages settling-first at UG sump and subsequently at surface sedimentation tank.			

		<p>The final effluent after settling meets the standards prescribed by GSR 742 (e) dated 25.09.2000. Mine water discharged is utilized in dust suppression, roof bolting, plantation etc. In case of mine water exceeding the utilization, the overflow from the settling tank is allowed to discharge in nearby nallah.</p> <p>Presently there is no mine water discharge from the mine.</p>
XIV	<p>Beside carrying out regular periodic health check up of their workers, 10 % of the workers identified from work force 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 period of one year & the results reported to this Ministry & to DGMS</p>	<p>Periodical medical examination (P.M.E.) are carried out compulsorily on each employee once in five years with the purpose of detecting and keeping the record of diseases with specific importance to the coal workers viz. Pneumoconiosis. During P.M.E. the candidates are subject to complete clinical examination relating to occupational diseases and hearing impairment. As WCL is having all the infrastructure facilities to comply with all statutory obligations regarding occupational health survey of all its employees, help from external organization i.e.: NIOH, Ahmedabad is not required.</p> <p>PME conducted-674 nos of employees and workers during the FY 2023-24 against a target of 664 nos. in WCL Kanhan Area.</p>
XV	<p>For monitoring land use pattern and post for mining land use a time series of land use maps based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone from the start of the project until end of mine life shall be prepared once in a 3 year (for any one particular season which is consistent in the time series) and the report submitted to MOEF and its regional office Bhopal.</p>	<p>Land Use monitoring is being done through satellite imagery as specified. The land use monitoring report for Pench-Kanhan- Tawa valley for the year 2020 is uploaded on the website of WCL (westerncoal.in). The hyperlink of the report is -</p> <p>http://103.59.142.228:8081/wclweb/TPK_CF_2020.pdf</p>
XVI	<p>The company shall obtain prior approval of CGWA/CGWB Regional Official for use of ground water if any, for mining operations.</p>	<p>Complied. NOC has been obtained from CGWA for use of groundwater vide NOC no-CGWA/NOC/MIN/ORIG/2021/13579 valid upto 31/10/23. The application for CGWA NOC renewal has been made on NOCAP portal of CGWA and the EAC meeting was done on 18.12.2023.</p>
XVII	<p>Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells & 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) & winter (January) seasons & quality in May data thus collected should be submitted to the MOEF & CGWB, Regional office quarterly within one month of Monitoring</p>	<p>Monitoring of ground water level along with quality is being done through a certified agency- Anacon Laboratories Pvt. Ltd. Nagpur, four times a year as specified. The annual ground water monitoring and groundwater quality reports are submitted to Regional Offices of MOEF Bhopal and CGWB Bhopal. Reports for the FY 2023-24 are enclosed.</p>

XVIII	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 village wells go dry due to de – watering of the mines.	Water is supplied to nearby villages through water tanker as and when required
XIX	ETP shall also be provided for workshop and CHP waste water.	This is a UG mine and there is no HEMM. There is no workshop hence not applicable. Presently mine is temporarily discontinued since 07.09.2023.
XX	Besides carrying out regular periodic health checkup for 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 with in a period of two years and the results reported to this Ministry and to DGMS.	Periodical medical examination(P.M.E.) are carried out compulsorily on each employee once in five years with the purpose of detecting and keeping the record of diseases with specific importance to the coal workers viz. Pneumoconiosis. During P.M.E. the candidates are subject to complete clinical examination relating to occupational diseases and hearing impairment. As WCL is having all the infrastructure facilities to comply with all statutory obligations regarding occupational health survey of all its employees, help from external organization i.e.: NIOH, Ahmedabad is not required. PME conducted-674 nos of employees and workers during the FY 2023-24 against a target of 664 nos. in WCL Kanhan Area.
XXI	A Final mine closure plan along with details of corpus fund shall be submitted immediately upon receipt of EC to the Ministry of Environment & Forest RO, Bhopal for approval.	Copy of Approved Mine Closure Plan enclosed with six monthly EC compliance report. Total Amount deposited in Escrow account of Mohan UG mine is 1246.312 Lakhs till date and balance as on 31/03/23 is INR 14,22,84,374/-
XXII	For monitoring land use pattern and post for mining land use a time series of land use maps based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone from the start of the project untill end of mine life shall be prepared once in a 3 year (for any one particular season which is consistence in the time series) and the report submitted to MOEF and its regional office Bhopal.	Land Use monitoring is being done through satellite imagery as specified. The land use monitoring report for Pench-Kanhan- Tawa valley for the year 2020 is uploaded on the website of WCL (westerncoal.in). The hyperlink of the report is - http://103.59.142.228:8081/wclweb/TPK_CF_2020.pdf

B) General Conditions: -

i)	No change in mining technology & scope of working should be made without prior Approval of the Ministry of Environment & Forests.	Noted for Compliance.
ii)	No change in the calendar plan including excavation, quantum of mineral coal waste should be made.	Being Complied.
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 meteorologically data topographical features and environmentally and ecologically sensitive target in Consultations with state pollution control board.	<p>Four ambient air quality status have been established in consultation with SPCB. Data on Ambient air Quality (SPM, RPM, SO₂, Na) is being regularly submitted to MPPCB & MOEF. Monitoring reports for period Apr-24 to Sep-24 are attached.</p> <p>Also, CAAQMS Monitoring station has been established in the buffer zone of the mine, to monitor the air quality parameters in compliance of the CTO conditions issued by MPPCB (Photographs enclosed).</p>
iv)	Fugitive dust emission from all sources should be controlled regularly Monitored & data recorded properly. Water spraying arrangements on haul roads, wagon loading, dump trucks, (loading, unloading,) should be provided, & properly Maintained	<p>1 Nos. of mobile water tanker (Capacity -4500 Litres) provided for dust suppression on coal transport roads.</p> <p>Wind Barrier wall (Height – 6.0 metres, Length – 380 metres) provided at Palachourai Railway siding at a cost of Rs. 19.15 Lakhs in the year 2016-17 (Photograph enclosed) Presently mine is temporarily discontinued since 07.09.2023.</p>
v)	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 & the state pollution control board/Central pollution control board once in six months.	<p>Data on Ambient air Quality (SPM, RPM, SO₂, Na) is being regularly submitted to MPPCB & MOEF along with six monthly EC compliance reports.</p> <p>Also, CAAQMS Monitoring station has been established in the buffer zone of the mine, to monitor the air quality parameters in compliance of the CTO conditions issued by MPPCB (Photographs enclosed).</p>
vi)	Adequate measure should be taken for control noise levels below 85 db (A) in the work environment. Worker engaged in blasting & drilling operation ,operation of HEMM should be provide with ear plugs & muff's	<p>Noted. Regular monitoring of noise level is done. Monitoring report for period Apr-24 to Sep-24 is enclosed.</p> <p>This is a U/G mine & there is No HEMM all machineries viz Haulages, belt conveyors etc deployed in U/G. The noise level control measures in U/G workings are covered vide CMR 1957.</p> <p>Presently mine is temporarily discontinued since 07.09.2023.</p>

vii)	Industrial waste water (workshop & water from the mines) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 May 1993 and 31 Dec 1993 Or as amended from time to time. Oil & grease trap should be installed before discharge of workshop effluents	Noted. Regular monitoring of mine water is done. Monitoring report for period Apr'24 to Sep'24 enclosed. This is a U/G mine & there is No HEMM all machineries viz Haulages, belt conveyors etc deployed in U/G. The noise level control measures in U/G workings are covered vide CMR 1957. Presently mine is temporarily discontinued since 07.09.2023.
viii)	Vehicular emission should be kept under control & regularly Monitored. Vehicles used for transporting & mineral should be covered with tarpaulin optimally loaded.	All light vehicles like jeep; school buses Ambulance etc are mandated to have a PUC Certificate. Vehicles used for coal transportation are covered with tarpaulin covering and optimally loaded. Presently mine is temporarily discontinued since 07.09.2023.
ix)	Environmental Laboratory should be established with adequate number and types of pollution Monitoring & analysis equipments in consultation with the state pollution control board.	Environmental monitoring is done by CMPDIL. A well established environment laboratory exists in CMPDIL which is NABL accredited. (Copy of NABL Certificate enclosed).
x)	Personnel working in dust area should be wear protective respiratory devices & they should also provide with adequate training & information on safety & health aspects. Occupational health surveillances program of the worker should be undertaken periodically to observe any contradictions due to exposure to the coal dust and take corrective measure ,if needed	All workmen are given protective gears as per statute. Dust monitoring underground is carried out using Personnel Dust Sampler (PDS) at required intervals. Occupational health survey i.e Periodic Medical Examination (PME) is done for every workman once in five (5) years. PME conducted for WCL, Kanhan Area employees which currently has three active mines-Ambara OC, Mohan UG and Tandsi UG. PME conducted-674 nos of employees and workers during the FY 2023-24 against a target of 664 nos. in WCL Kanhan Area.
xi)	A separate Environmental managements cell with suitable qualified personnel should be set-up under the control of Senior Executive, who will report directly to the head of company	There is well established environmental cell at corporate HQ, headed by GM (Env) reporting to Director (Tech) P & P .He is assisted by well qualified & well trained team of Engineers of Mining, Civil & Environment disciplines. At area level, the team is headed by General Manger (Operations) & assisted by Area Nodal Officer (Environmental) under the overall control of General Manger of the Area. At project level the team is headed by Sub Area Manger of the project & assisted by project Nodal officer (Environment).
xii)	The Funds earmarked for Environmental protection measures should be kept separate account should be diverted for other purpose. Year wise expenditure should be reported to the Ministry & Regional office located office at Bhopal.	A separate budget for Environmental Cell is provided and the funds are utilized for the assigned purposes only. Year-wise Environmental expenditure is reported in the Six Monthly EC compliance report and Environmental Audit Statement submitted yearly.
xiii)	The Regional office of this Ministry located office at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should be extend full co –operation to the officer (s) of the Regional Office by furnishing the requisite data /information/ monitoring reports	Noted

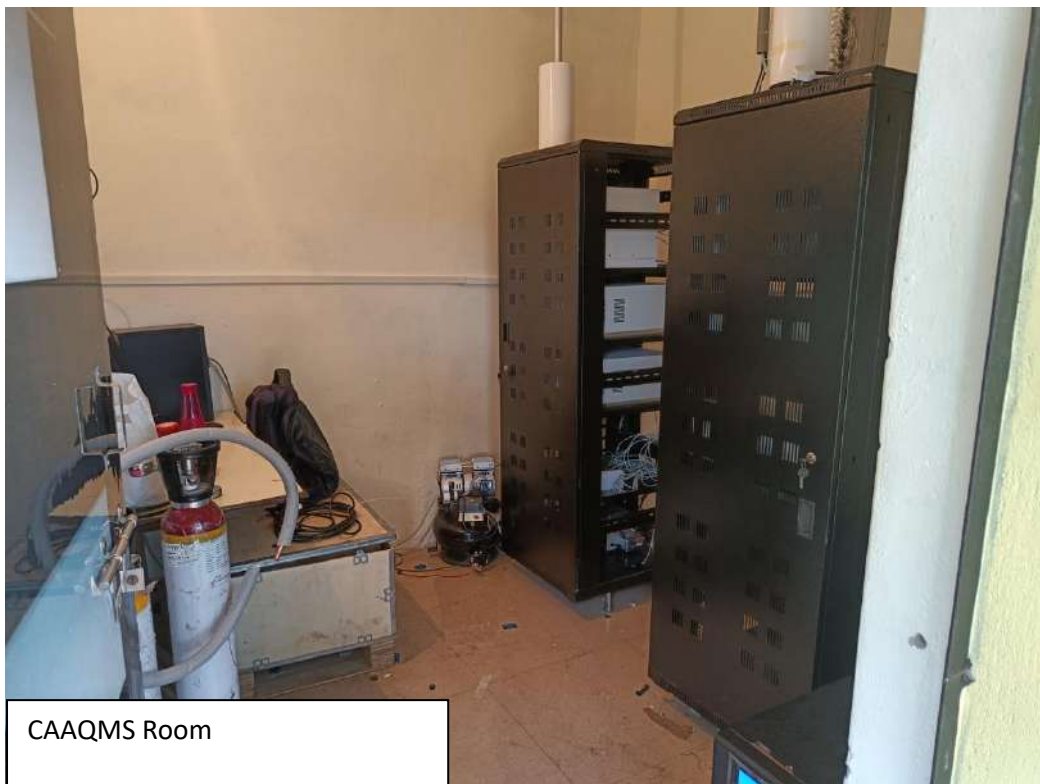
xiv)	A copy of clearance letter will be marked to the concerned Panchayat/local NGO. If any from whom and suggestion /representation while processing the proposal.	Complied. Copy of the letter enclosed.
xv)	State pollution control board should be display a copy of the clearance letter The Regional office, District Industry center & Collector's office /Tehsildar office for 30 days.	This is for MPPCB
xvi)	The project authorities should advertise at least in two local news paper 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 the project has been accorded environmental clearance and a copy of clearance letter is available with state pollution control board & may also be seen at web site Ministry of Environment & Forests .at http://envfor.nic.in	Copies of Advertisement enclosed.
3	The Ministry or any other competent may alter/modify the above condition or stipulated any further condition in the interest of environment protection	Noted
4	Failure to the comply with any of the condition mentioned above may result withdrawal of the clearance & attract action under the provisions of environment (protection) Act 1986	Noted
5	The above condition will be enforced inter-alia, under the provision of water (prevention & control of pollution) Act1974 the air (prevention & control of pollution) Act1981 the environment (protection) Act 1986 & public liability insurance Act 1991 along with their amendments & rules.	Noted

ENVIRONMENTAL MANAGEMENT AT MOHAN UG MINE

Air Pollution Control Measures

- i. 03 Nos. of Fixed Water Sprinklers provided near bunker and over conveyor belt.
- ii. 01 Nos. of mobile water tanker (Capacity -4500 Litres) provided for dust suppression on coal transport roads.
- iii. Black Topped road from Weighbridge to Palachourai Siding.
- iv. Wind Barrier wall (Height – 6.0 metres, Length – 380 metres) provided at Palachourai Railway siding at a cost of Rs. 19.15 Lakhs in the year 2016-17 (Photograph enclosed)
- v. Total plantation of 81500 nos in approximately 32 Ha area has been carried out in and around mine lease area since inception of mine.
- vi. For Air Quality monitoring purpose, a CAAQMS Monitoring station has been established in the buffer zone of the mine, in the FY 2021-22 at a cost of Rs. 66.06 lakhs, to monitor the air quality parameters in compliance of the CTO conditions issued by MPPCB (Photographs enclosed).

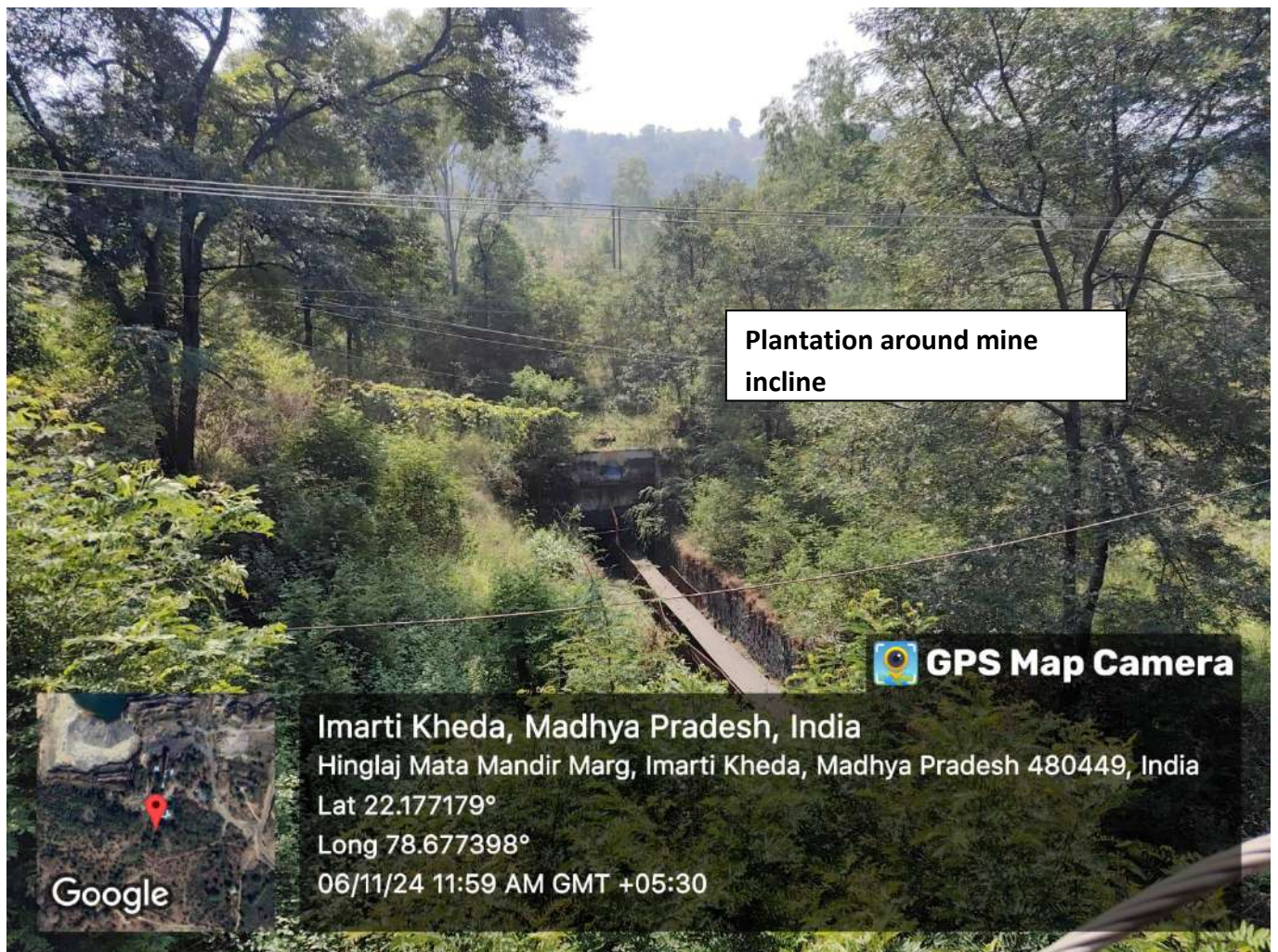
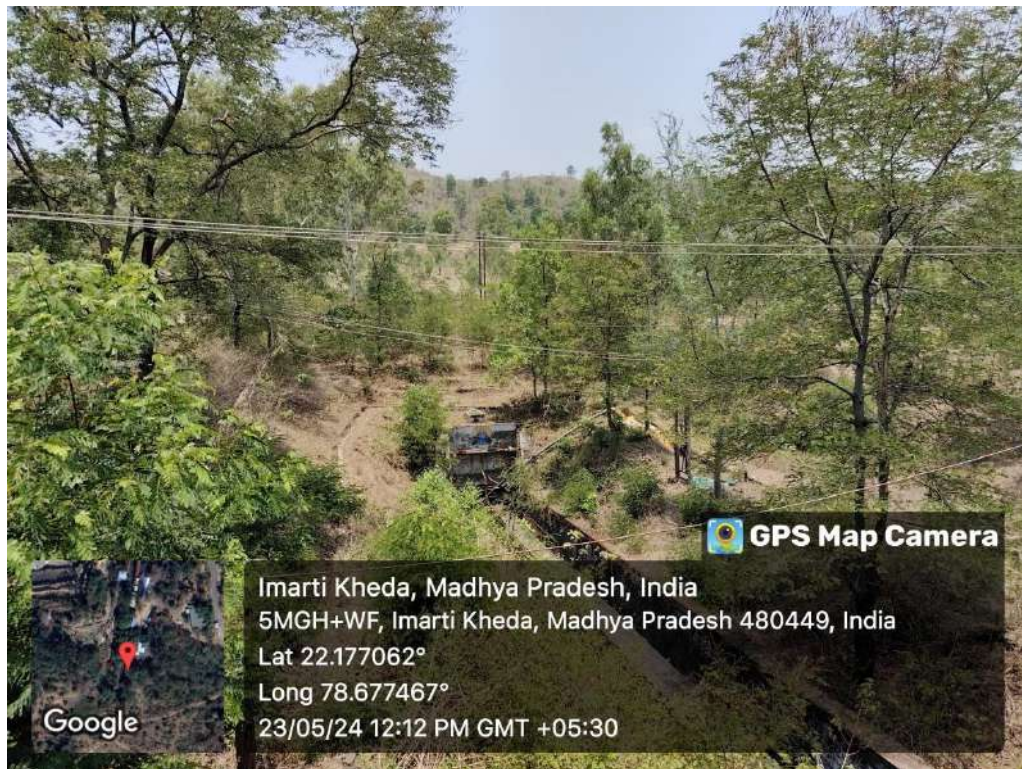







Use of Mobile Water Tankers for Dust Suppression







Plantation around mine
incline

 **GPS Map Camera**

Imarti Kheda, Madhya Pradesh, India

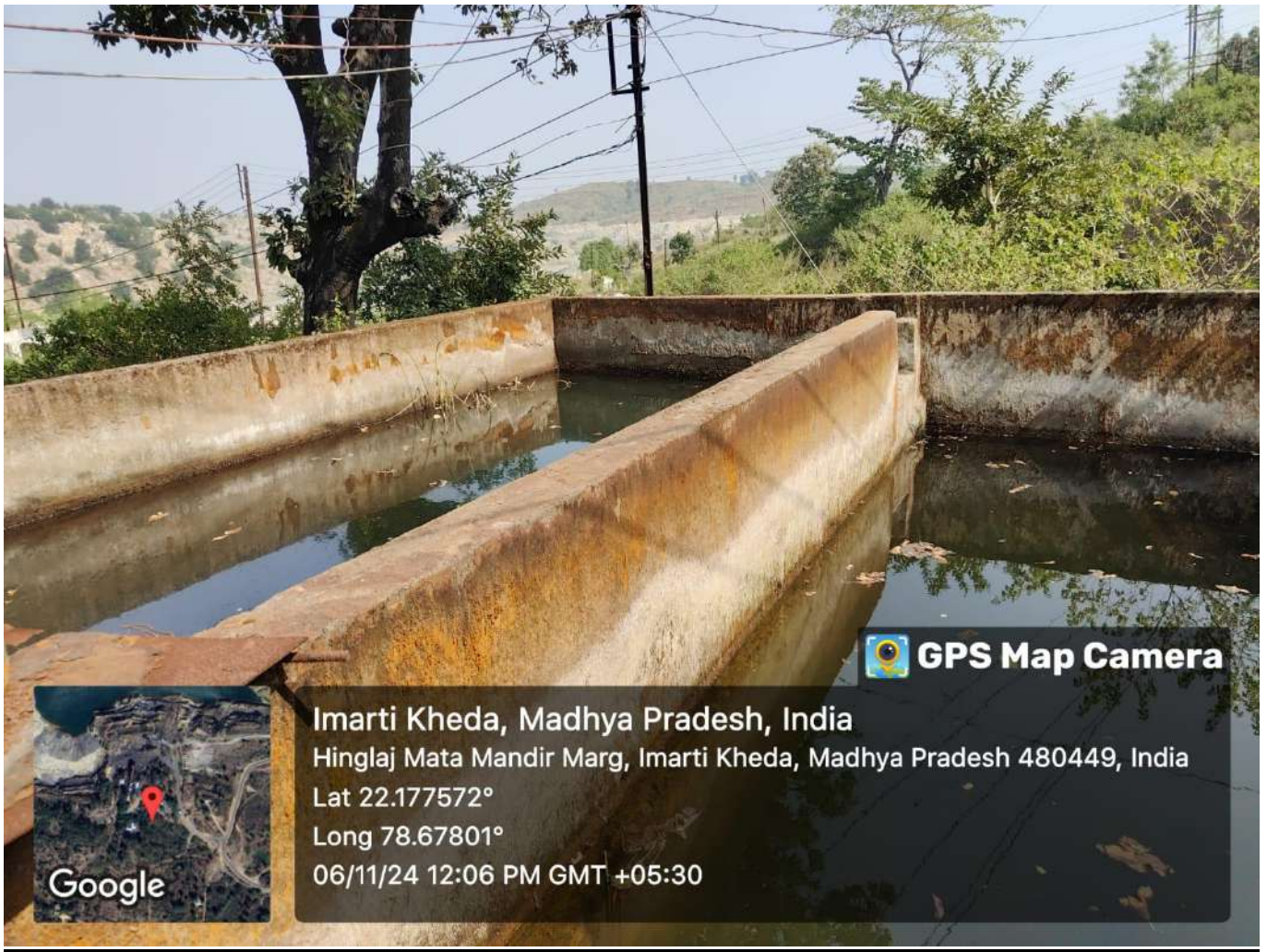
Hinglaj Mata Mandir Marg, Imarti Kheda, Madhya Pradesh 480449, India

Lat 22.177572°

Long 78.67801°

06/11/24 12:03 PM GMT +05:30

Google



Imarti Kheda, Madhya Pradesh, India

Hinglaj Mata Mandir Marg, Imarti Kheda, Madhya Pradesh 480449, India

Lat 22.177572°

Long 78.67801°

06/11/24 12:06 PM GMT +05:30



**Wind Barrier wall - Palachourai siding,
WCL Kanhan Area**

2. Water Pollution Control and Water Conservation Measures

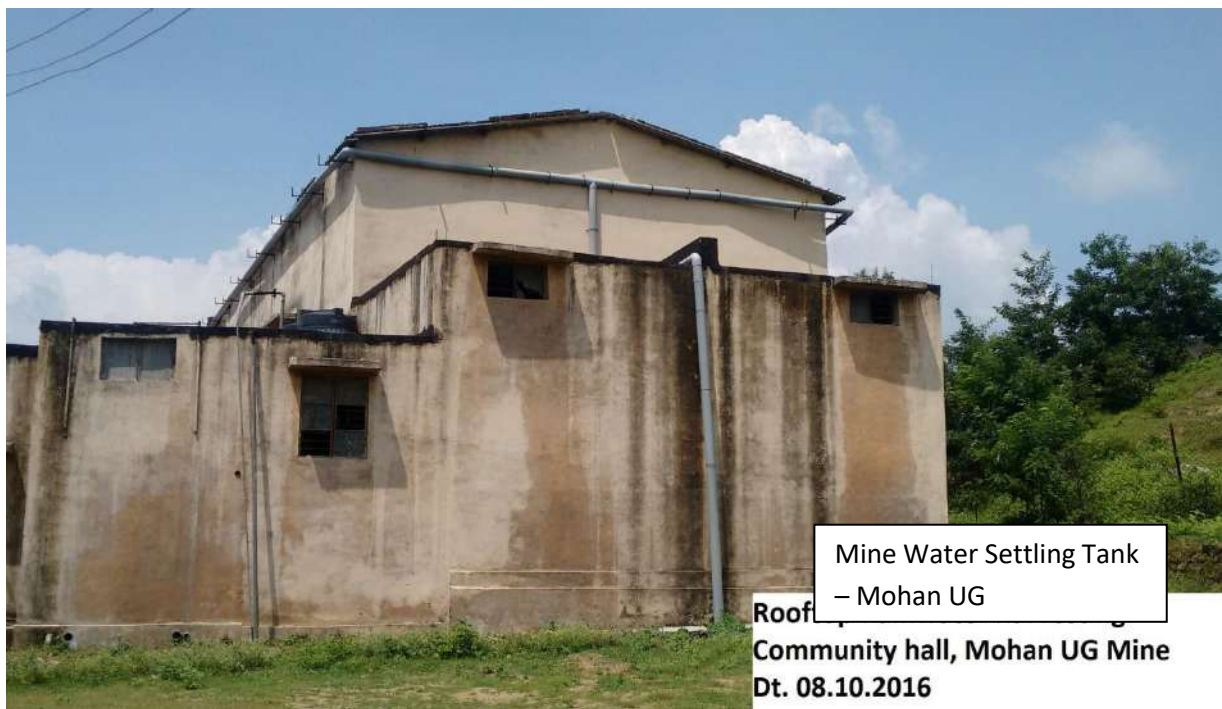
1. For treatment of mine water there are two Sedimentation tanks of Capacity 31 m³ and 360 m³. Arrangements are in place to recycle the mine water for roof bolting in the mine for dust suppression at working face and for dust suppression through sprinklers and mobile tankers.

Mine water parameters are monitored every fortnight as per GSR 742(E) dated 25.09.2000

Presently there is no mine water discharge from the mine.

2. Individual Septic Tank & Soak Pit provided at each quarter in Mohan UG colony for sewage treatment.

3. Roof Top rainwater harvesting system installed at community hall, Mohan UG mine.





Kanhan Area
Mohan Colliery

PRODUCTION DATA

Statement showing year wise production during last 05 years in respect of
Mohan Colliery

Sl.No.	Year	Production
1	2019-20	0.184 Million Tonnes
2	2020-21	0.189 Million Tonnes
3	2021-22	0.171 Million Tonnes
4	2022-23	0.150001 Million Tonnes
5	2023-24	0.038330 Million Tonnes