




<p>ମହାନଦୀ କୋଲ୍‌ଫିଲ୍ଡ୍‌ସ୍ ଲିମିଟେଡ୍ Mahanadi Coalfields Limited (A subsidiary of Coal India Limited)</p>	<p>OFFICE OF THE PROJECT OFFICER SAMALESWARI OCP, IB VALLEY AREA P.O RAMPUR COLLIERY, BRAJRAJNAGAR DIST: JHARSUGUDA, ODISHA (768225) REGD H.Q: JAGRITI VIHAR, BURLA SAMBALPUR, ODISHA (768018)</p>			
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Ref No:- MCL/IBV/P.O.(SOCP)/ENVT/ 2022-23/ 25

Dt. 03/06 /2022
 By Speed & E-mail

To
 The Additional Principal Chief Conservator of forest,
 Ministry of Environment, Forests & Climate Change,
 Regional Office, Eastern Region,
 A-3, Chandrashekharpur, Bhubaneswar-751023.

Sub:-Submission of Half Yearly Compliance report of "Environmental Clearance Condition"
 in respect of Samleswari OCP (15.00 MTY Expn.), Ib Valley Area, MCL for the period
 from October 2021 to March 2022.

Dear Sir,

Please find enclosed herewith the 'Half Yearly Compliance Report' along with supporting documents and abstract of the monitoring report of Air, Noise & Effluent quality in respect of Samleswari Open Cast Project (15.0 MTY) for the period from October 2021 to March 2022.

This is for your kind perusal & necessary action.

Yours faithfully


 PROJECT OFFICER
 SAMALESWARI OCP

Copy to:

1. Chairman, State Pollution Control Board Odisha, Paribesh Bhawan,
 Nilakanthanagar, Unit-VIII, Bhubaneswar - 751012 By SPEED POST
2. Regional Officer, State Pollution Control Board Odisha, Plot No. - 370/5971,
 At- Babubagicha, (Cox Colony), St. Marry Hospital Road, Post - Industrial Estate,
 Jharsuguda -768203. By SPEED POST.
3. General Manager, MCL, Bhubaneswar, Plot No-G/3, Gadakan, P.O.- Mancheswar Railway
 Station, Near OMFED Square, Chandrashekharpur, Bhubaneswar -17.By SPEED POST
4. G.M. (Envt), MCL, HQ, Burla, Sambalpur.
5. Area Environment Officer, IB Valley Area,
6. Environment Officer, SOCP,
7. File.

HALF-YEARLY PROGRESS REPORT

OF

COMPLIANCE TO

ENVIRONMENTAL
CLEARANCE CONDITIONS

(From October 2021 to March 2022.)

Samleswari OCP Expn. (15.0 MTY)

IB Valley Area



Mahanadi Coal Fields Limited

(A subsidiary of Coal India limited)

MCL - A Mini Ratna Company

**STATUS REPORT ON COMPLIANCE TO
ENVIRONMENTAL CLEARANCE CONDITIONS**

Name of the project: Samleswari OCP Expn. (15 MTY), MCL

No.& Date of MOEF clearance letter No:J-11015/183/2008-1A-11 (M), Dated: - 26/12/2019



Sl. No.	CONDITIONS	COMPLIANCE
(i)	The project proponent shall collect and analyze one season data for environmental parameters and submit for consideration of the EAC before 31st December, 2019.	One season data of Environmental parameters of Air, Noise & Water has been collected and analysed through CMPDIL for the period September-2019 to November-2019 and report submitted vide letter no. MCL / IBV/P.O.(SOCP)/ENVT/2019-20/172 , Dtd,30/12/2019. Reports are well within the permissible limits.
(ii)	The project proponent shall obtain Consent to establish from the State Pollution Control Boards prior to commencement of production in increased area.	Project has obtained Consent to Establish (CTE) vide No.-8591-II-CTE-6300 dtd.- 27.01.2020 from the State Pollution Control Board to commencement of production in increased area.
(iii)	Transportation of coal from face to Coal heap shall be carried out by truck. Further, the coal transportation from Coal heap to Coal Handling Plant shall be carried out through covered trucks.	Transportation of coal from face to coal heap is carried out by trucks. Coal transportation from coal heap to outside is carried out through covered trucks.
(iv)	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	About 83.871% of coal is extracted by eco-friendly surface miner during from October 2021 to March 2022 in the year 2021-22. Surface miners are having inbuilt sprinkling arrangement for dust suppression.
(v)	Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.	<ol style="list-style-type: none"> 1. One mobile fog canon (40 mt throw) is in operation in the project & one departmental simulator converted like Fog cannon. 2. Fixed Water Sprinkler/water gun fitted for dust suppression near CC stock. 3. One additional water filling point for dust suppression work has been installed near ROM Coal stock. 3. 6 nos. departmental mobile water sprinklers (28KL) and 5 nos.(12KL) contractual water tankers are deployed for controlling dust on haul road, Loading sites and railway sidings. 4. Wind barrier wall of 600 mtr. in length exist at siding no.-2. 5. Installation of wheel washing system for both Samleswari OCP and Lajkura OCP will be done at new convenient point and will be completed within September 2022.
(vi)	The company shall obtain approval of CGWA for use of groundwater for mining operations.	NOC obtained vide no. CGWA/ NOC/ MIN/ORIG/ 2020 / 7355 , dtd. 05/02/2020 from CGWA for ground water extraction.


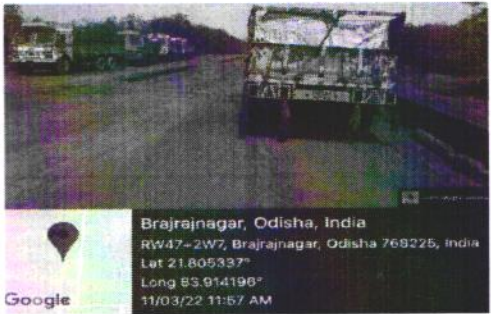
(vii)	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	An occupational health cell is established at Central Hospital, Mandalia under Ib Valley Area of MCL, which is manned by specialized doctors and paramedical staff trained in occupational medicines. IME and PME of departmental employees as well as contractual employees are carried out. They are being checked for occupational diseases, hearing impairment and others in the Central Hospital, Ib Valley Area No case related to occupational disease was noticed.
(viii)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	Training on livelihood and skill development programme couldn't conduct during the period October 2021 to March 2022 due to COVID pandemic.
(ix)	To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.	Could not organized perform any medical camps by Central Hospital, Ib Valley Area during October 2021 to September 2021.(Annexure -I) 1. Health camp for children to commemorate "Bharat Ka Amrut Mahatsov" on date 29.06.2021 at Telenpali Shastrinagar, 2. Routine village Health Camp on date 07.08.2021 at Chhualiberna village.
(x)	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.	10.50 ha of thick green belt exists for 2.5 km. along the final boundary in the down wind direction of the project site. 68.69 ha. safety zone plantation at the final boundary in the down wind direction of the project site has been developed to mitigate dust pollution.
(xi)	Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	Mine sump water is used for industrial use (dust suppression, Fire fighting, equipment washing etc.) and domestic consumption is from IWSS. An alternate source of water is also used i.e. from abandoned Rampur Colliery Pit no.-8 & 9.
(xii)	A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI /NEERI/IIT or any other expert agency identified by the Ministry.	A third party assessment of EC compliance done by NEERI, Kolkata on 18 th & 19 th November 2020. Final report received in April-2021. <u>Some of the salient features/observations are :</u> 1. Satisfactory dust suppression systems in the mine. 2. Complete health check up periodically for both departmental and contractual personnel deployed in mining operation is required. 3. Well managed coal transport system through tarpaulin-covered trucks. But limited arrangement of one-way traffic movement for dumpers/ trucks for OB and coal haulage road. 4. Land and Surface Water Management .

		<p>5. Development of water settling structures and siltation ponds at suitable places.</p> <p>6. Management of groundwater recharge .</p> <p>7. Over burden dump management.</p> <p>8. Top soil management and Safety zone/green belt and avenue plantation to be slightly up scaled.</p>
(xiii)	Hazardous ETP sludge should be only disposed off as per Hazardous and Other Waste(Management and Trans boundary Movement) Rules (2016)	Hazardous ETP sludge is stored in impervious pit as per Hazardous Waste Authorization . Membership has been taken from State Pollution Control Board authorized agency-RAMKY for disposal of hazardous waste.
(xiv)	CTE/CTO of the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no.Q-16017/38/2018-CPA dated 24 th October, 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.	Project has obtained Consent To Establish (CTE)vide No.-8591-II-CTE-6300 dtd.-27.01.2020 and Consent to Operate (CTO) vide No. 5250 IND-I-CON-1298 Dt. 31.03.2022 from the State Pollution Control Board, Odisha as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974. Validity of the Consent to operate is 31/03/2023.
(xv)	The green belt of at least 5-10 m width shall be developed in more than 40% of the total project area, mainly along the periphery of mine boundary, in downward wind direction, and along road sides etc. selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Project has developed plantation in 328.7333 ha. area , as given below- External OB dump:- 24.86 Ha Internal OB dump:- 103.8733Ha, Vacant land :- 179.77 Ha. Avenue Plantation:- 22.30 Ha. Selection of plant species is being taken as per the CPCB guidelines in consultation with the State Forest Department likes Neem , Cashew , Mango , Ber , Teak , Krishna chuda , Radha chuda , Kadamb , harida , bahada , Acacia , Sisoo etc.
(xvi)	In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.	The project has developed green belt outside the plant premises such as- Avenue Plantation in 22.30 ha. Vacant area Plantation in 179.77 ha. Urban plantation of 50.0 ha (80,000 nos.)in 2017-18 and 46.88 ha.(75,000 nos.) during 2018-19 have been done through DFO, Jharsuguda in nearby area.
(xvii)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Half yearly EC compliance report and third party assessment of EC compliance done by NEERI, Kolkata has been submitted to the MOEF&CC.
(xviii)	The percentage the CER may be at least 1.5 times the amount given in the OM dated 1 st May, 2018 recommended by the EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Time bound action plan has been prepared and enclosed herewith in Annexure-II.

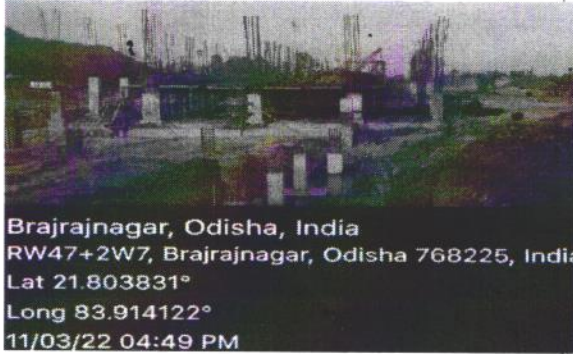
(xix)	Permission from concerned statutory authority for diversion of Pandren nallah shall be taken by PP"	Permission already taken from Department of Water Resources, Government of Odisha Vide letter no. 3950/Iii-II-WRC-10/14/WR, Date 17.02.2014 and Irrigation Division, Burla vide no. 3060(WR), Date-27.05.2014.
(xx)	PP shall comply the decision of cause under Section 15 &16 of EP Act 1986vide case no. 2 (c)cc No. 172/2013 dt: 11/02/13.	The matter is pending before the SDM Court , Jharsuguda.
Condit ion No.	(a) Statutory compliance	
	Conditions	Compliance Status
(i)	The project proponent shall obtain forest clearance under the provision of forest (Conservation) Act, 1986, in the case of the diversion of forest land for non-forest purpose involved in the project	Project has obtained Stage-I Forest Clearance vide No.- 8-147/1989-FC(Pt.) Dtd. 05-11-2019 and Stage-II Forest Clearance obtained vide No.-8-147/1989-FC(Pt.) Dtd. 01.03.2021 from MOEF&CC and vide no.PT1-FE-DIV-FLD-0078-2020-7534/F&E /10F(Cons)171/18 , Bhubaneswar , dated the 12th April ,2021 of Govt.of Odisha , F&E Deptt. for diversion of 230.20 ha forest land for phase-IV expansion.
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable as there is no wildlife sanctuary within 10 km radius of the project.
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendation of the approved Site-Specific Conservation Plan/Wildlife management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).	The project proponent has prepared a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden vide no.7927/7WL-FD&WLC-149.2020, Dated, Bhubaneswar the 1 st Oct,2020. There is no schedule-I species found in the study area.
(iv)	The project proponent shall obtain Consent to Establish/Operate under the provision of Air (Prevention & Control of Pollution) Act,1981 and the Water(Prevention & Control of Polution) Act, 1974 from the concerned State Pollution Control Board/Committee.	Project has obtained Consent to Establish vide No.-8591-II-CTE-6300 dtd.-27.01.2020 and Consent to Operate vide No. 5250/IND-I-CON-1298 Dt. 31.03.2021 from the State Pollution Control Board, Odisha , valid till 31/03/2023.

(v)	The project proponent shall obtain the necessary permission from the Central ground Water Authority.	Project has obtained NOC vide No. CGWA/NOC/MIN/OR14/2020/7355 dtd.-05.02.2020 from the Central Ground Water Authority and again applied for renewal through online and hard signed copy submitted vide letter no. MCL/IBV/P.O(SOCP)/ENVT/2021-22/247, dated 28.03.2022 to CGWB.
(vi)	Soil/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.	Project has obtained Hazardous Waste Authorization vide No.IND-IV-HW-348/4345 Dt.22.03.2022 and the Annual return for the year 2021-22 has been submitted to the Board according to Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
(b)	Air quality monitoring and preservation	
(i)	Continuous ambient air monitoring stations as prescribed in the statute be establish in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement head and/or in consultation with the SPCB . Monitoring of heavy metals such as Hg, As, Cd, Cr. Etc to be carried out at least once in six months.	One online continuous ambient air monitoring stations as prescribed in the statute has been established in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Monitoring stations have been decided in consultation with State Pollution Control Board, Odisha. Heavy metals are monitored once in six months. Results are well within the permissible limit. Six numbers regular ambient air monitoring station have also been established in core and buffer zone.
(ii)	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Cd, Cr. And other monitoring data shall be regularly reported to the Ministry/Regional office and	06 numbers Ambient Air Quality Monitoring Stations are established in core and buffer zone. Monitoring of Ambient Air Quality of the Mine (in core zone) is carried out once in a fortnight (24 hourly) to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the

	the CPCB/SPCB.	<p>Central Pollution Control Board. Heavy metals are monitored once in six months. The required data are submitted regularly to the MoEF & CC, its regional office and State Pollution Control Board twice a year along with Half Yearly EC Compliance report.</p> <p>Results are within the permissible limit.</p>
(iii)	<p>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution(with higher value of PM₁₀/PM_{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emission from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>	<p>Vehicles used for transporting the mineral outside the Mine lease by roads are optimally loaded and are covered with tarpaulins.</p>  <p>Mobile water sprinklers and fog Cannon (40 mtr. throw) are deployed on coal transportation road regularly to control fugitive dust emission from vehicular movements. Fixed sprinklers / rain guns have been installed along the CT road and railway sidings. Installation of wheel washing system for both Samleswari OCP and Lajkura OCP will be done at new convenient point and will be completed within September 2022. Work order has been issued to L&T, Mumbai on 20/01/2021 for construction of RLS with surge bin at Lajkura Siding (15MTY) - Cost-Rs.285,05,44,998.00. Completion period is 2275 days. work is in under progress.</p>  <p>Ambient air quality parameters (Annexure- III) are within the norms prescribed by the Central/State Pollution Control Board.</p>

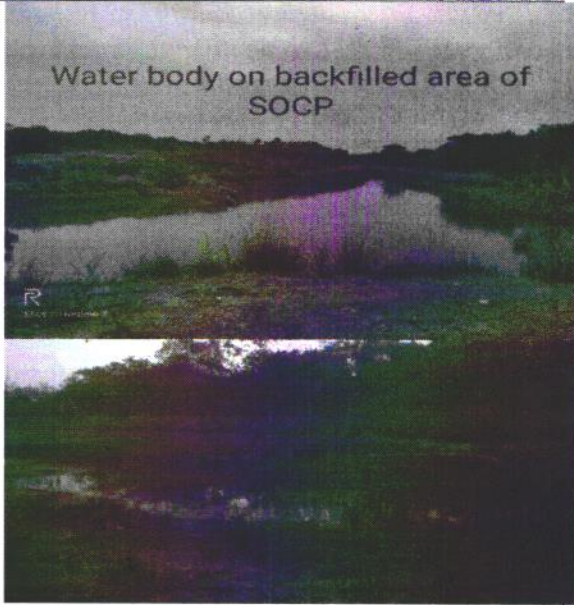

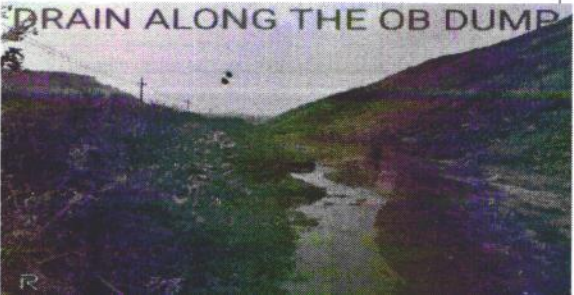
		
<p>(iv)</p>	<p>The transportation of the coal shall be carried out as per the provisions and route envisaged in the Approved Mining Plan and environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case it proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</p>	<p>Transportation of the coal is carried out as per the provisions and route envisaged in the Approved Mining Plan.</p> <p>Construction work of Separate Coal transportation road bypassing villages is under progress (75% completed till 31.03.2022). Total length of road is 6.25 Km and carriage way is 18.00 mtr. Expected date of completion is June-2022. Total cost of the work is Rs.65.07 Cr.</p>
<p>(v)</p>	<p>Vehicular emission shall be kept under control And regularly monitored. All the vehicles engaged in the mining and allied activities shall operate only obtaining 'PUC' certificate from the authorized pollution testing centres.</p>	<p>All HEMMs are maintained through scheduled maintenance , thus reducing emissions. Roads are also maintained properly.</p> <p>PUC - "Pollution Under Control" Certificates are obtained for all the transporting vehicles from the authorized pollution testing centres . Vehicular emission is under control.</p> 


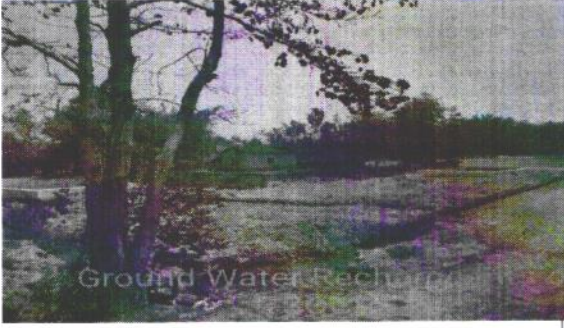
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(vi)	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air born dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractor.	<p>About 83.871% of coal is extracted by eco-friendly surface miner during October 2021 to March 2022.. Surface miners are having inbuilt sprinkling arrangement for dust suppression.</p> <p>Work order has been issued to L&T, Mumbai on 20/01/2021 for construction of RLS with surge bin at Lajkura Siding (15MTY). Completion period is 2275 days. Construction work is in progress.</p>  <p>Brajrajnagar, Odisha, India RW47+2W7, Brajrajnagar, Odisha 768225, India Lat 21.803831° Long 83.914122° 11/03/22 04:49 PM</p> <p>Out of total 6 drill machines , 4 drills are wet operated and 2 nos. are fitted with dust collectors..</p>
(vii)	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.	<p>Not applicable</p> <p>Coal handling plants are not in operation</p>
(c) Water quality monitoring and preservation		
(i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control board.	A modern Effluent Treatment Plant (ETP) equipped with Silicon Belt and Multimedia filter has been provided for treatment of Work-shop effluent (Capacity: 40m ³ /Hr.) and monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control board. Zero discharge of effluent is followed in ETP.

(ii)	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.11(M) dated 27 th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	The monitoring data of environmental quality parameters (air, water & noise) and critical pollutants such as PM2.5, SO2 and NOx (ambient) and critical sectoral parameters are uploaded on the company's website www.mahanadicoal.in and the same is displayed at the entrance of the project premises through digital Electronic Display Board.
(iii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mine operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.	Regular ground water level and quality monitoring is being done by CMPDIL (a subsidiary of Coal India Limited). The mine has established 02 nos. of monitoring stations for regular ground water monitoring at Lajkura Village & Kudopali village. Parameters are well within the permissible limit. Nine nos. of piezometers are in operation for nearby mines including one in Samleswari OCP are fitted with automatic water level recorder with telemetry system and data of the same are submitted regularly to the MoEF& CC /RO along with the half yearly EC Compliance report . Reports are within the prescribed limit.
(iv)	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional office.	Monitoring of water quality upstream and downstream of water body (Pendren Nallah) is done once in six months and record of monitoring data is maintained and data is submitted to the Ministry of Environment, Forest and Climate Change/Regional office regularly along with half-yearly EC Compliance report. All reports are within permissible limit.
(v)	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.	For mining operations, water from the mine sump is used. (Total capacity of mine sump is 25.66 Lakh kl) . Rain water harvesting points are constructed in different plantation sites.



		 <p>Water body on backfilled area of SOCP</p>
(vi)	<p>Catch and/or garland and siltation ponds in adequate numbers and OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of slit into the drains. The drains/ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression and development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.</p>	<p>Catch drains of size 3mtr. X 2 mtr. covering length of 7 KM & 02 nos. of siltation ponds (73.5 m X 20m X 2.5 m each) (MDTP) have already been constructed to arrest silt & sedimentation flqws from soil & mineral dump.</p>  <p>The drains are being regularly de-silted & maintained properly. Garland drains of size 3 m X 2.5 m X 16 KM length are already available along with sump in the de coaled pit of the mine for collection of surface runoff.</p>  <p>DRAIN ALONG THE OB DUMP</p>

		<p>There are two nos. of mine sumps; having volumetric capacity of 25.66 Lakh KL and they are designed keeping more than 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site.</p> <p>Adequate water retention in sump / reservoir is allowed for proper settling of silt material. The water, so collected is being utilized for watering the mine areas, roads, greenbelt development etc. Drains exist at the toe of the OB dumps.</p>
(vii)	<p>Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).</p>	<p>06 nos. of recharge pits have been constructed with a recharge potential 21.06 KL/month (approx.) near Orampada village.</p>   <p>Tanker water supply to 33 nearby villages (17 villages annually and 16 villages in summer season only).</p>
(viii)	<p>Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate</p>	<p>CHP in the project is not in operation. However runoff from the CHP area is well channelized to the mine sump and finally discharged through Mine Discharge treatment Plant.</p> <p>A modern Effluent Treatment Plant</p>

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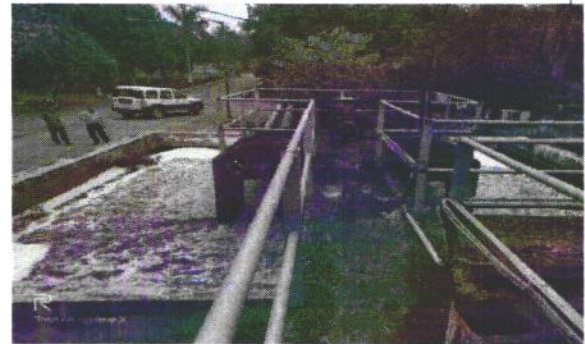
ETP/STP needs to be provided.

(ETP) equipped with Silicon Belt and Multimedia filter has been provided for treatment of Work-shop effluent (Capacity: 40m³/Hr.).



Effluent Treatment Plant (ETP)

A Sewage Treatment Plant (STP) of capacity 0.5 MLD has been installed in the existing colony.



Sewage Treatment Plant (STP)

(ix)

The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

Pumped out water from the mine is utilized for industrial purposes.

The drains are being regularly de-silted & maintained properly.

Adequate water retention in sump/ reservoir is allowed for proper settling of silt material. The water, so collected is being utilized for watering the mine areas, roads, greenbelt development etc.

Fixed sprinkler at Railway Siding



Mine water utilizing in firefighting work



Drill machines washing by mine water



Dozer Washing at Washing Ramp by Mine Water


Garland drains are connected with sump in the de-coaled pit of the mine for channelized surface runoff to the mine sump.

(x)

The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of

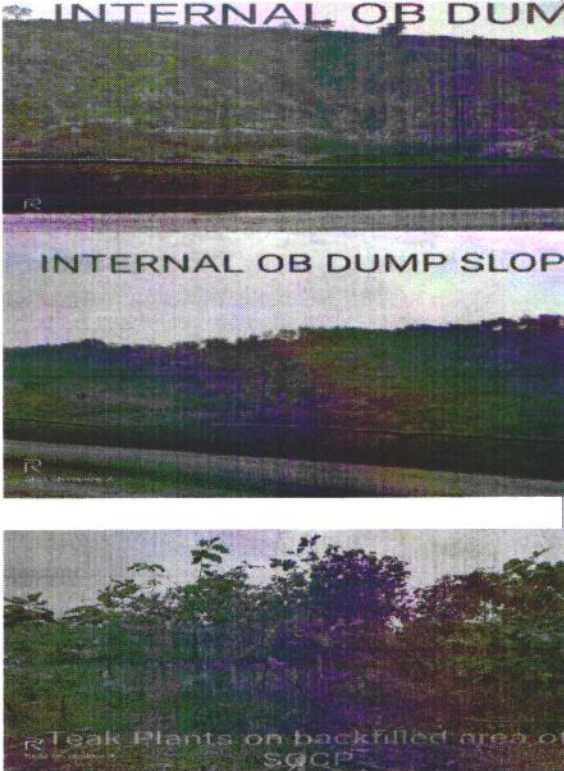
The storm and strata water from mines are diverted to mine sumps and stored for dust suppression, fire fighting and other industrial uses. Garland drains are made along the periphery of the mine to prevent mine from inundation.

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	<p>natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.</p>	<p>One seasonal nalla namely Pandren nalla is to be diverted for which permission has been taken from Department of Water Resources, Government of Odisha Vide letter no. 3950/Irr-II-WRC-10/14/WR, Date 17.02.2014 and Irrigation Division, Burla vide no. 3060 (WR), Date-27.05.2014 keeping in view that the downstream users of the water from Pandren Nalla are not affected by the proposed diversion. The temporary embankment constructed along the Pandren Nalla is stabilized by vegetation. Internal drains are made along the haul roads, stocks etc. and the water is diverted to mine sumps.</p> 
(xi)	<p>The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation/water resource department in the state government.</p>	<p>Not Applicable. The nearest Ib River is about 6 KM distance from the Project. Mining activities are being carried out in the opposite direction of Ib River. Conservation measures like plantation of native species and strengthening of embankment of nearby Nallah have also been undertaken.</p>
(d)	Noise and Vibration monitoring and prevention	
(i)	<p>Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.</p>	<p>Adequate measures have been taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, are provided with personal protective equipments (PPE) like Ear plug. Face mask(N-95), Helmet, Mining Shoe, Gum Boot, Fluorescent Jacket in conformity with the prescribed norms and guidelines in this regard. During the period October '2021 to</p>

		<p>March'2022, 76 Helmets, 70 Mining shoes, 46 Gum Boots, 35 Fluorescent Jackets have been distributed. Routine maintenance is also being carried out to reduce vibration and noise. Noise level survey is done fortnightly and the reports are well within the permissible limit.</p> <p>Safety talks are being conducted at regular intervals for increasing the awareness.</p>
(ii)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.	<p>Controlled blasting is being practiced as per the permission obtained from DGMS for the purpose and it is carried out during the day time only.</p> <p>For controlling ground vibrations and to arrest the fly rocks and boulders, the mitigative measures are taken as per the stipulations mentioned in the blasting permission. From the latest vibration monitoring report : Min. PPV is 0.442 mm/s. , Max. PPV is 4.6 mm/s.</p>
(iii)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise export in this regard shall be submitted to the.Ministry/RO on six-monthly basis.	Noise level survey is being carried out by CMPDI fortnightly as per the prescribed guidelines and report submitted to the Ministry/RO on six-monthly basis. Results are well within permissible limit.
(e)	Mining Plan	
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	Mining is being carried out by strictly following the provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
(ii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS)	Mining is carried out as per the approved mining plan (including mine closure plan) as per coal mining laws and relevant circulars issued by DGMS from time to time.
(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	Stage -II FC obtained vide No.-8-147/1989-FC(Pt.)Dtd. 01.03.2021 from MOEF&CC and vide no.PT1-FE-DIV-FLD-0078-2020-7534/F&E/10F(Cons)171/18, Bhubaneswar, dated the 12 th April, 2021 of Govt.of Odisha, F&E Deptt.

(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	To reduce energy consumption , old ACs are replaced by 5* rating and all lights are replaced by LED lights in projects .
(f)	Land reclamation	
(i)	Digital survey of entire leasehold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Satellite based land use map are prepared by CMPDI every year and the reports are being submitted to MOEF&CC and its Regional office at Bhubaneswar. The report is also available in website of MCL (www.mahanadicoal.in).
(ii)	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guideline for preparation of Mine Closure Plan issued by the Ministry of Coal dated 27 th August, 2009 and subsequent amendments.	As per approved mining plan, 73.787 ha. of the de- coaled area is to be converted into water reservoir at the end of the mine closure and to be protected accordingly. It will be gently sloped and the upper benches will be terraced and stabilized with plantation/ afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The remaining area will be backfilled.
(iii)	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-à-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	The mining is phased out in sustainable manner. No additional over burden dumps are created. OB removed during the initial period of the mine was stacked and reclaimed at six earmarked external OB dump sites covering 24.86 ha of land with 4.060 Mm ³ volume only. Back-filling is practiced in de-coaled area.
(iv)	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3 rd November, 2009 as amended from time to time. Effort shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any ,along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF & CC, CPCB and SPCB.	Fly ash has not been used for external OB dumps as the existing external OB dumps are very old and fully stabilized . The mining operation and backfilling work is under progress. Fly ash shall not be backfilled due to shortage of void . Only 73.787 ha. will be left for final void / water body at the end of the mine. Regarding the matter of Annual Return for the year 2021-22 on utilization of fly

		<p>ash, has been submitted by the Project vide letter No.-MCL/IBV/P.O.(SOCP)/ENVT/22-23/05 dtd.-04.04.2022 to the Member Secretary, OSPCB, Odisha. About 73.787 ha will be kept for water body / void and the balance area will be utilized in backfilling, green belt and others.</p>
<p>(v)</p>	<p>Further it may be ensured that as per the time schedule specified in Mine Closure Plan it should remain live till the point of utilization. The total top soil temporarily be stored at earmarked site (s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dump shall be stabilized with native grass species to prevent erosion and surface runoff. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue till the vegetation become self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.</p>	<p>At present, OB generated is simultaneously back filled and reclaimed in the decoaled area. The total progressive area reclaimed is 119.77 ha. The OB generated & used during October 2021 to March 2022 is 6814574.20 Cu.m. Top soil stacked/stored temporarily on separate dump for spreading over the backfilled area for vegetation purpose in future.</p> <p>OB dump slopes are stabilized with grass & bamboo. Native flora species are planted on top of the OB dumps.</p> <p>At the final stage of working, back-filled area to be covered with about a meter thick top soil. The land after mining is to be brought back for agriculture purpose.</p> 

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(vi)	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	No grazing land is involved in core zone
(g) Green Belt		
(i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action Plan in this regard, if , any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	Site Specific Wildlife Conservation plan (SSWLCP) has been approved by PCCF(WL & CWLW) , Odisha vide no.-7927/7WL-FD&WLC-149.2020, Dated, Bhubaneswar , the 1st Oct,2020. No endangered / endemic flora/fauna, spotted/ reported in the study area.
(ii)	Green Belt consisting of 3-tire plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/coal transportation roads.	Safety zone plantation of 68.69 ha has been developed along periphery of the mine lease area. A green belt comprising of a mix of native species has been developed all along the major approach roads. Project has developed plantation in 330.8033 ha. area , having green belt – 226.93 Ha.
(h) Public hearing and human health issues		
(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to the ministry & it's RO on six-monthly basis.	Mine is illuminated as per DGMS standard. Illumination report is submitted to the RO , regional office of MOEF&CC on six monthly basis,
(ii)	The project proponent shall undertake occupational health survey for initial and periodical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified form workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time	Regular periodic health check-up of workers are carried out that includes health check-up for occupational diseases and hearing impairment in Central Hospital , Mandalia under Ib, Valley Area. An occupational health cell is established at Central Hospital Mandalia under Ib Valley Area , which is manned by specialized doctors and paramedical staff

	to time.	<p>trained in occupational medicines.</p> <p>IME and PME of employees as well as contractual employees are carried out . They are being checked for occupational diseases, hearing impairment and others in the Central Hospital, Mandalia. <i>Anexure-4</i></p>
(iii)	<p>Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.</p>	<p>Personnel working in core zone area wear protective respiratory devices and they are regularly provided with adequate training and information on safety and health aspects through refresher trainings organized at Vocational Training Centre.</p> <p>During October 2021 to March 2022, 4012 Nos. of masks(N-95) for respiratory protection have been provided to the workers (including outsourced employees). ✓</p>
(iv)	<p>Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall be undertaking all the task/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustee shall be compensated as per the norms laid down in the R&R policy of the Company/State Government/Central Government, as applicable.</p>	<p>The company follows the R&R Policy of Govt. of Odisha . Land oustees are being compensated as per the norms laid down in R&R Policy of the State Government, Odisha which is higher among all policies. A separate CSR cell at area level is established for this purpose. The said cell has been in regular consultation with the panchayats of the local villages and administration to identify socio economic and welfare measures under CSR to be carried out over the balance life of the mine. The project follows the R&R Policy of the company and Govt. of Odisha. Land oustees are being compensated as per the norms laid down in R&R Policy of the State Government, Odisha which is higher among all policies.</p>

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(v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.11(M) dated 29 th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of the mine lease or habitations and villages are surrounded by the mine lease area.'	The project proponent is following the mitigation measures provided in this Ministry's ¹ OM No.Z-11013/5712014-IA.11(M) dated 29 th October, 2014. CSR activities like drinking water supply to nearby villages, separate coal transportation road, controlled blasting , dust suppression etc. are being carried out.
(i) Corporate Environment Responsibility		
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Regarding Corporate Environment Responsibility, the project proponent is complying the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May 2018, as applicable.
(ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribed for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.	The company has a well laid down Environment Policy approved by the Board of Directors, known as EMS (Environmental Management System). The Environment Policy is prescribed for standard operating process /procedures to bring into focus any infringements / deviation/violation of the environmental or forest Norms/ conditions. For proper checks and balances, the Company has a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
(iii)	A separate Environmental cell both at the project and company head quarter level, with qualified personnel shall be sent up under the control of senior executive, who will directly to the head of the organization.	A separate Environmental cell both at the project and company head quarter level, with qualified personnel have been set up. The hierarchical system or Administrative Order of the company to deal with ¹ environmental issues and for ensuring compliance with the environmental clearance conditions has been furnished below:- At Corporate Level - D(T)(P&P) G.M.(Environment)

		<p>At area level - General manager (Environment) At Project Level - Staff Officer Project Officer Environment Officer</p>
(iv)	<p>Action Plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance report.</p>	<p>All the environmental conditions are implemented according to EMP along with responsibility matrix under the supervision of Environmental cell.</p> <p>The funds earmarked for environmental protection measures are kept in separate account and not diverted for other purposes.</p> <p>Year wise expenditure has been reported to the Ministry and its Regional Office through Environmental Statement in Form -V.</p>
(v)	<p>Self environmental audit shall be conducted annually. Every three years third party environment audit shall be carried out.</p>	<p>A multidisciplinary inter area team conducts Environmental Audit quarterly and every three years third party environment audit is carried out.</p>
(j) Miscellaneous		
(i)	<p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall be displayed in the project proponent's website permanently.</p>	<p>The copy of the Environment Clearance letter (15.00 MTY) has been advertised in two local newspapers widely circulated around the project, one of which was in Odia language. This is also available at company's web site : www.mcl.gov.in or www.mahanadicoal.in.</p>
(ii)	<p>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipality bodies in addition the relevant offices of the Government who in turn has to display the same manner for 30 days from the date of receipt.</p>	<p>A copy of the environmental clearance letter has already been sent vide letter no. MCL/IBV/P.O. (SOCP)/ENVT/ 2019-20/ 172,173,174, 175,176, 177, 178,179 & 180 dtd.30.12.2019 to the Add. PCCF, District Magistrate, Chairman, Belpahar Municipality, Chairman, Brajrajnagar Municipality, Sarpanch, Kudopali Panchayat, BDO, Jharsuguda, R.O, SPCB, Jharsuguda,</p>

		Chief Executive Officer, Zillaparishad and General Manager Industrial Estate, Jharsuguda respectively.
(iii)	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including the results of the monitored data on their website and update the same on behalf-yearly basis.	The clearance letter has been uploaded on the company website: www.mahanadicoal.in . The compliance status of the stipulated EC condition are also uploaded regularly on the website.
(iv)	The project proponent shall monitor the criteria pollutants level namely;PM10, PM2.5, NOx (Ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	The monitoring data of environmental quality parameters (air, water, noise) and critical pollutants such as PM2.5, SO2 and NOX (ambient) and critical sectoral parameters are displayed at the entrance of the project premises through digital display board.
(v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal has already been uploaded.
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.11 (M) dated 29 th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'	The project proponent follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.11 (M) dated 29 th October, 2014. CSR activities like drinking water supply to nearby villages, separate coal transportation road, controlled blasting, dust suppression etc. are being carried out.
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution control Board as prescribed under the Environment (Protection) Rules,1986, as amended subsequently and put on the website of the company.	Every year Environmental statement in FORM-V is submitted to OSPCB and Regional office of MoEF & CC and other concerned offices before 30 th September. The Environment Statement for last financial year 2020-21 was submitted to OSPCB vide letter no. एम.सी.एल./ मुख्यालय / पर्यावरण & वन /2021/65 दिनांक 21.09.2021. The Environment Statement for 2020-21 and is also available in MCL's

		website (www.mahanadicoal.in).
(viii)	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Project authority will inform to the Regional Office of the MOEF&CC regarding commencement of mining operation in the forest land.
(ix)	The project authorities strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	The project authorities strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	The project proponent is abiding by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.	Further expansion or modifications in the plant shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed
(xiii)	The ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Agreed
(xiv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed to comply.
(xv)	The Regional Office of the Ministry shall monitor compliance of the stipulated conditions. The project authority should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agreed to comply.
(xvi)	The above condition shall 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 the Environment (Protection) Act,	Agreed to comply.



	1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
5	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the comments made on the issues raised during public hearing shall also be implemented in letter and spirit.	The project proponent is abiding by all the commitments and recommendations made in the EIA/EMP report. All the comments made on the issues raised during public hearing are also being implemented in letter and spirit.
6.	The proponent shall obtained all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Following clearances have been obtained :- (1) Environmental Clearance vide No.- J-11015/ 183/ 2008-IA-(M) dtd.-26 th December 2019, (2) Consent To Establish No.-8591-II-CTE-6300 dtd.- 27.01.2020. (3) Consent to Operate (CTO) vide letter No.- CTO No. 5250/IND-I-CON-1298 Dt. 31.03.2022 (4) Stage -II FC obtained vide No.-8-147/1989- FC(Pt.)Dtd. 01.03.2021 from MOEF&CC and vide no.PT1-FE-DIV-FLD-0078-2020-7534/F&E /10F(Cons)171/18 , Bhubaneswar , dated the 12 th April, 2021 of Govt.of Odisha , F&E Deptt.
7.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal act, 2010.	Agreed & Complied
8.	The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, AND AS RAISED BY THE RESPECTIVE State Governments at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.	The project will comply the orders of Hon'ble Supreme Court in this matter.

9.	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if Any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	Compliance to be made by the State Government as per the provisions of the relevant law/ if applicable.
10.	This environmental clearance shall not be operational till such time the project proponent compiles with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.	The said Judgment of Hon'ble Supreme Court is not applicable to the project under reference as per the Order of the Hon'ble Coal Tribunal, New Delhi dated 11.11.2019.


PROJECT OFFICER
SAMLESWARI OCP


REVISID PROPOSID ACTIVITIES FOR CER EXPENDITURE
SAMLESWARI OCP, IB VALLEY AREA, MCL

ANNEXURE-II


ACTION PLAN(2021-22 TO 2025-26)

SL. NO.	AREA OF FOCUS	Proposed CER Estimated value in Rs.(In Lakhs)
1.	Sanitation	
	Community toilet with water connection in villages :- Kudopali, Kantatirera, Ainlapali, Bundia & Baliput- total 50 nos. (Each village 5 nos. for gents & 5 nos. for ladies)	125.00
2.	Health	
	Distributing Masks & sanitisers for Covind-19- In all the five villages like Kudopali, Kantatirkra, Ainlapali, Bundia & Baliput.	05.00
3.	Education	
	Room maintenance of school building- (a) Kudopali-Primary school-5 nos. room (b) R. Kantapali-Primary School- 4 nos. room (c) Ainlapali-Nodal School-6 nos. room	03.00
4.	Road	
	Concrete roads for connecting villages (Bundia villages 1.5 KM, Chamar Pada to Kudopali-1.5 KM, Bundia to Talen Kachhar-2 KM and Talen Kachhar uparpada to Bundia colony-0.5 KM)	60.00
5.	Electrification including Solar Power	
	Setting up of centralize tower for lighting by solar power (a) Kudopali-3 nos. (b)Bundia-3 nos. (c) R. Kantapali-3 nos. (d) Baliput-1 no. (e)Ainlapali-1 no. (f) Talen Kachhar uparpada-1 no.	60.00
6.	Rain Water Harvesting	
	Development of pond for rainwater harvesting (a) R. Kantapali-1 no. (b) Munda pada-1 no. (c) Bundia chamar pada-1 no. (d) Talen Kachhar-2 nos.	50.00
7.	Avenue plantation	
	Plantation along both side of roads with 03 years maintenance - 2 KM each along both side of roads in villages Kudopali, Kantatikra, Ainlapali, Bundia & Baliput villages.	25.00

Plantation in community areas	
Plantation in villages with 03 years maintenance -	02.00
(a) Kudopali- Jangha linga temple and Shiva temple-0.5 KM	
(b) Amlapali- Radha Krishna temple-0.5 KM	
(c) Telen Kachhar- kalyan mandap-0.5 KM	
TOTAL	330.00


 General Manager
 B Valley Area

महासंचालक
 बी वली क्षेत्र
 General Manager
 B Valley Area


 Project Officer
 Samleswari OCP
 PROJECT OFFICER
 SAMLESHWARI CPENCASST PROJECT
 B VALLEY AREA, BRAJRAJNAGAR



MAHANADI COALFIELDS LIMITED
(A subsidiary of Coal India Limited)
OFFICE OF THE CHIEF OF MEDICAL SERVICES
CENTRAL HOSPITAL IB COALFIELDS
BRAJRAJNAGAR-768216
DIST: JHARSUGUDA (ORISSA)
Tel: No: 06645-242067 Fax: 06645-242192

Letter No: MCL/IBV/CH/H.CAMP/22-23/678

Dated:- 06.04.2022

To,
The Project Officer
Samaleswari OCP.

Sub : Regarding details of Medical Camps/Health camps organized in nearby villages during October 2021 to March 2022 by Central Hospital Ib valley area.

Ref No. Your letter No. MCL/IBV/P.O.(SOCP)/ENVT/2021-22/255 dtd. 31/03/2022.

Dear Sir,

We could not perform any Medical camps/Health camps during above mentioned period due to covid restriction. As such to organize a village health camp, we need necessary permission from state/district administration which was not possible during Covid-19 pandemic.

Yours faithfully

h 06.04.2022
Chief of Medical Services
Central Hospital, Ib Valley Area

Copy to,

1. Area Environment Officer, Ib valley Area
2. Environment Officer, SOCP
3. Office File

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Annexure - III

**AMBIENT AIR QUALITY REPORT
SAMALESWARI OPEN CAST PROJECT
FOR THE PERIOD OCTOBER'2021 TO MARCH - 2022
Ambient Air Quality Report**

Monitoring station	Date	SPM	PM10	PM2.5	SO2	NOX
South of the Mine	1-Oct-21	264	169	63	12.83	19.26
South of the Mine	20-Oct-21	329	218	69	16.27	20.76
South of the Mine	3-Nov-21	357	211	71	13.94	26.84
South of the Mine	20-Nov-21	329	218	69	16.27	20.76
South of the Mine	1-Dec-21	181	127	74	12.17	21.08
South of the Mine	16-Dec-21	191	173	53	15.18	23.64
South of the Mine	1-Jan-22	296	170	56	9.02	18.71
South of the Mine	17-Jan-22	256	156	52	13.1	20.26
South of the Mine	1-Feb-22	196	123	50	11.15	19.65
South of the Mine	21-Feb-22	184	123	54	9.86	20.61
South of the Mine	1-Mar-22	188	125	54	11.96	21.11
South of the Mine	16-Mar-22	190	133	50	18.23	28.32
Max		357	218	74	18.23	28.32
Min.		181	123	50	9.02	18.71
Mean		246.75	162.16667	59.583333	13.3317	21.75
MoEF Standard		500	250	120	120	120

Ambient Air Quality Report

Monitoring station	Date	SPM	PM10	PM2.5	SO2	NOX
West of the Mine	1-Oct-21	229	147	53	15.51	31.23
West of the Mine	20-Oct-21	286	174	64	14.46	25.25
West of the Mine	3-Nov-21	313	190	67	16.21	25.52
West of the Mine	16-Nov-21	368	224	71	15.56	25.71
West of the Mine	1-Dec-21	203	159	61	14.26	25.05
West of the Mine	16-Dec-21	390	157	60	15.62	30.49
West of the Mine	1-Jan-22	266	166	54	14.32	27.38
West of the Mine	17-Jan-22	233	145	44	19.5	22.52
West of the Mine	1-Feb-22	172	110	48	17.82	25.50
West of the Mine	21-Feb-22	170	115	45	14.35	23.9
West of the Mine	1-Mar-22	166	114	44	19.05	30.3
West of the Mine	16-Mar-22	180	126	40	12.36	22.52
Max		390	224	71	19.5	31.23
Min.		166	110	40	12.36	22.52
Mean		248	152.25	54.25	15.7517	26.28083
MoEF Standard		500	250	120	120	120

Ambient Air Quality Report

Monitoring station	Date	SPM	PM10	PM2.5	SO2	NOX
South East of the Mine	1-Oct-21	256	164	58	12.85	26.24
South East of the Mine	20-Oct-21	317	204	68	11.44	20.68
South East of the Mine	3-Nov-21	339	201	70	13.36	22.18
South East of the Mine	17-Nov-21	359	217	66	11.91	19.04
South East of the Mine	2-Dec-21	173	138	60	12.85	34.41
South East of the Mine	17-Dec-21	230	169	52	15.19	14.86
South East of the Mine	1-Jan-22	230	190	57	15.53	15.42
South East of the Mine	17-Jan-22	220	155	48	11.62	20.06
South East of the Mine	2-Feb-22	208	132	55	12.52	19.08
South East of the Mine	21-Feb-22	177	133	47	13.07	18.84
South East of the Mine	2-Mar-22	140	107	36	12.62	23.64
South East of the Mine	17-Mar-22	184	125	46	17.23	29.32
Max		359	217	70	17.23	34.41
Min.		140	107	36	11.44	14.86
Mean		236.083333	161.25	55.25	13.3492	21.98083
MoEF Standard		500	250	120	120	120

Project Officer
SOCP

Ambient Air Quality Report

Monitoring station	Date	SPM	PM10	PM2.5	SO2	NOX
East of the Mine	1-Oct-21	188	80	47	44.61	28.27
East of the Mine	20-Oct-21	291	179	63	12.66	25.01
East of the Mine	3-Nov-21	295	168	66	10.47	17.95
East of the Mine	17-Nov-21	317	181	63	10.69	20.55
East of the Mine	2-Dec-21	212	159	64	12.76	27.79
East of the Mine	17-Dec-21	216	159	62	15.4	26.3
East of the Mine	1-Jan-22	240	152	52	21.57	82.53
East of the Mine	18-Jan-22	220	145	50	14.11	20.06
East of the Mine	2-Feb-22	186	129	45	11.77	17.66
East of the Mine	21-Feb-22	166	130	50	10.83	21.75
East of the Mine	2-Mar-22	155	110	40	13.28	22.48
East of the Mine	17-Mar-22	155	120	43	13.25	22.36
Max		317	181	66	44.61	82.53
Min.		155	80	40	10.47	17.66
Mean		220.083333	142.66667	53.75	15.95	27.72583
MoEF Standard		500	250	120	120	120


 Project Officer
 SOCP



Ambient Noise Level Report

Station	Date of study	Noise-Day	Noise-Night
East of the Mine	4-Oct-21	61.20	60.10
East of the Mine	25-Oct-21	66.50	61.00
East of the Mine	8-Nov-21	64.70	60.00
East of the Mine	16-Nov-21	63.60	59.40
East of the Mine	2-Dec-21	66.50	63.20
East of the Mine	20-Dec-21	66.60	63.90
East of the Mine	10-Jan-22	64.70	61.80
East of the Mine	24-Jan-22	65.90	63.20
East of the Mine	3-Feb-22	68.80	65.30
East of the Mine	23-Feb-22	60.40	58.70
East of the Mine	7-Mar-22	64.60	61.70
East of the Mine	24-Mar-22	64.90	60.50
Max		68.8	65.3
Min.		60.4	58.7
Mean		64.8666667	61.566667
MoEF Standard		75dB(A)	70dB(A)

Ambient Noise Level Report

Station	Date of study	Noise-Day	Noise-Night
South-East of the Mine	4-Oct-21	60.40	58.30
South-East of the Mine	25-Oct-21	68.40	65.90
South-East of the Mine	8-Nov-21	66.90	64.30
South-East of the Mine	16-Nov-21	66.80	62.10
South-East of the Mine	2-Dec-21	64.90	62.10
South-East of the Mine	20-Dec-21	64.80	62.10
South-East of the Mine	10-Jan-22	66.30	64.20
South-East of the Mine	24-Jan-22	60.70	62.30
South-East of the Mine	3-Feb-22	67.40	66.20
South-East of the Mine	23-Feb-22	63.40	57.60
South-East of the Mine	7-Mar-22	66.40	64.90
South-East of the Mine	24-Mar-22	66.70	59.80
Max		68.4	66.2
Min.		60.4	57.6
Mean		65.25833333	62.483333
MoEF Standard		75dB(A)	70dB(A)

Ambient Noise Level Report

Station	Date of study	Noise-Day	Noise-Night
Khokelmal (Reported Only)	4-Oct-21	64.20	61.60
Khokelmal (Reported Only)	25-Oct-21	64.80	59.70
Khokelmal (Reported Only)	8-Nov-21	64.70	60.20
Khokelmal (Reported Only)	16-Nov-21	64.40	60.60
Khokelmal (Reported Only)	2-Dec-21	64.60	60.70
Khokelmal (Reported Only)	20-Dec-21	64.80	59.30
Khokelmal (Reported Only)	10-Jan-22	61.70	57.60
Khokelmal (Reported Only)	24-Jan-22	58.10	57.90
Khokelmal (Reported Only)	3-Feb-22	64.70	60.60
Khokelmal (Reported Only)	23-Feb-22	62.00	57.90
Khokelmal (Reported Only)	7-Mar-22	62.80	58.30
Khokelmal (Reported Only)	24-Mar-22	63.90	57.40
Max		64.8	61.6
Min.		58.1	57.4
Mean		63.3916667	59.316667
MoEF Standard		75dB(A)	70dB(A)


 Project Officer
 SOCP


Ambient Noise Level Report

Samaleswari OCP

FOR THE PERIOD OCTOBER-2021 TO MARCH - 2022

Station	Date of study	Noise-Day	Noise-Night
West of the Mine	4-Oct-21	62.50	57.60
West of the Mine	25-Oct-21	65.10	60.30
West of the Mine	8-Nov-21	68.80	66.20
West of the Mine	16-Nov-21	64.30	58.70
West of the Mine	2-Dec-21	62.30	56.40
West of the Mine	20-Dec-21	62.30	57.60
West of the Mine	10-Jan-22	63.30	57.60
West of the Mine	24-Jan-22	60.10	62.30
West of the Mine	3-Feb-22	60.20	62.30
West of the Mine	23-Feb-22	63.20	58.70
West of the Mine	7-Mar-22	62.70	58.60
West of the Mine	24-Mar-22	63.20	57.60
Max.		68.80	66.20
Min.		60.10	56.40
Mean		63.17	59.49
MoEF Standard		75dB(A)	70dB(A)

Ambient Noise Level Report

Station	Date of study	Noise-Day	Noise-Night
South of the Mine	4-Oct-21	60.40	58.30
South of the Mine	25-Oct-21	68.40	65.90
South of the Mine	8-Nov-21	66.90	64.30
South of the Mine	16-Nov-21	66.80	62.10
South of the Mine	2-Dec-21	64.90	62.10
South of the Mine	20-Dec-21	64.80	62.10
South of the Mine	10-Jan-22	66.80	63.40
South of the Mine	24-Jan-22	65.90	63.20
South of the Mine	3-Feb-22	70.40	68.90
South of the Mine	23-Feb-22	65.40	63.10
South of the Mine	7-Mar-22	66.40	62.10
South of the Mine	24-Mar-22	66.80	63.20
Max		70.40	68.90
Min.		60.40	58.30
Mean		66.16	63.23
MoEF Standard		75dB(A)	70dB(A)

Ambient Noise Level Report

Station	Date of study	Noise-Day	Noise-Night
Rampur Sub Area	4-Oct-21	61.60	58.90
Rampur Sub Area	25-Oct-21	64.20	60.70
Rampur Sub Area	8-Nov-21	64.10	61.20
Rampur Sub Area	16-Nov-21	66.70	64.30
Rampur Sub Area	2-Dec-21	66.90	62.30
Rampur Sub Area	20-Dec-21	66.80	63.20
Rampur Sub Area	10-Jan-22	64.60	62.10
Rampur Sub Area	24-Jan-22	58.60	60.40
Rampur Sub Area	3-Feb-22	65.50	63.10
Rampur Sub Area	23-Feb-22	64.50	60.30
Rampur Sub Area	7-Mar-22	66.30	62.80
Rampur Sub Area	24-Mar-22	63.20	61.30
Max		66.9	64.3
Min.		58.6	58.9
Mean		64.4166667	61.716667
MoEF Standard		75dB(A)	70dB(A)


Project Officer
SQCP

Effluent Quality Report

(D) Sewage Treatment Plant (STP):---


Sampling Station	Date of Sampling	pH	OG	TSS	COD	BOD
STP Outlet	12-Oct-21	7.39	-	42	-	<2.0
STP Outlet	11-Nov-21	6.98	-	26	-	<2.0
STP Outlet	24-Nov-21	7.42	-	44	-	<2.0
STP Outlet	9-Dec-21	7.23	-	24	-	<2.0
STP Outlet	23-Dec-21	7.05	-	26	-	<2.0
STP Outlet	10-Jan-22	6.8	-	18	-	<2.0
STP Outlet	24-Jan-22	6.92	-	28	-	<2.0
STP Outlet	3-Feb-22	6.96	-	34	-	<2.0
STP Outlet	24-Feb-22	7.61	-	38	-	<2.0
STP Outlet	7-Mar-22	7.51	-	34	-	<2.0
STP Outlet	24-Mar-22	7.63	-	40	-	<2.0
Max		7.63	0	44	0	<2.0
Min.		6.8	0	18	0	<2.0
Mean		7.227273	0	32.1818	0	<2.0
MoEF Standard		5.5-9.0	10	100	250	30

(E) Sewage Treatment Plant (STP):---

Sampling Station	Date of Sampling	pH	OG	TSS	COD	BOD
STP Inlet	20-Oct-21	7.03	-	40	-	<2.0
STP Inlet	11-Nov-21	6.92	-	34	-	<2.0
STP Inlet	3-Feb-22	6.77	-	42	-	<2.0
Max			0	40	0	<2.0
Min.			0	34	0	<2.0
Mean			0	37	0	<2.0
MoEF Standard		5.5-9.0	10	100	250	30

(F) Mine Sump Water:---

Sampling Station	Date of Sampling	pH	OG	TSS	COD	BOD
Mine Sump Water	20-Oct-21	6.96	-	-	-	-
Mine Sump Water	11-Nov-21	7.03	-	-	-	-
Mine Sump Water	10-Jan-22	6.65	-	-	-	-
Mine Sump Water	22-Jan-22	3.22	-	-	-	-
Mine Sump Water	3-Feb-22	7.09	-	-	-	-
Max		7.03	0	0	0	0
Min.		6.96	0	0	0	0
Mean		#REF!	0	0	0	0
MoEF Standard		5.5-9.0	10	100	250	30


 Project Officer
 SOCP

MAHANADI COALFIELDS LIMITED
OFFICE OF THE CHIEF OF MEDICAL SERVICES
IB COALFIELDS

Annexure - IV

Ref No. MCL/IBV/CH/PME/2021/ **638**

Dt 14.01.2022
15

17/1/22

The Chief of Medical Services (MCL)
 Jagruti Vihar, Burla

Sub:-Monthly PME report of IB Coalfields for the month of Dec. -2021

Dear Sir,

Mentioned below is the P.M.E. Performance report in respect of Ib Valley, Orient, Lakhapur, Basundhara Garjanbahal Area, Central Workshop and Mines Rescue Station for your kind information and needful

Units	Man power	Target	ACHIEVEMENT IN 2021												Progre ssive	Balance	Excess		
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			Current	Prog	
IB VALLEY AREA																			
Non Statutory	C.G.M.+Reg.S.	244	81	0	0	6	0	0	0	0	0	0	0	0	0	0	6	75	
Statutory	Central Hosp.	158	53	0	0	0	0	0	0	0	0	0	0	0	0	15	15	38	
Statutory	S.O.C.P.	726	195	43	33	34	17	0	0	0	18	26	20	0	12	203	0	8	8
	L.O.C.P.	430	125	14	11	11	7	0	0	12	13	21	13	11	12	125	0		
	Total :-	1558	454	57	44	51	24	0	0	12	31	47	33	11	39	349	113		
LAKHANPUR AREA																			
Non Statutory	G.M.Office	355	94	0	0	2	5	0	0	0	6	8	13	25	20	79	15		
Statutory	B.O.C.M.	635	211	26	14	16	27	0	0	3	49	34	39	4	1	213	0	1	2
	LKPOCP	1083	361	0	0	52	37	0	0	10	1	25	78	68	103	374	0	13	13
	Lilari OCP	12	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
	Total :-	2085	670	26	14	70	69	0	0	13	56	67	130	97	124	666	19	14	15
ORIENT AREA																			
Non Statutory	C.G.M.Office	213	60	16	0	0	0	0	0	0	0	2	14	0	0	32	28		
Statutory	O.S.A	150	45	0	0	0	0	0	0	0	0	0	0	0	22	22	23		
Statutory	R.S.A	94	30	0	0	0	0	0	0	0	0	0	0	9	17	26	4		
Statutory	MineNo.1 & 2	648	175	0	0	45	17	0	0	9	15	23	0	0	11	120	55		
	Mine No.3	91	30	1	3	13	0	0	0	0	5	2	2	2	5	33	0	3	3
	Mine.No.4	45	15	0	0	0	0	0	0	4	0	5	1	2	3	15	0		
	H.R.C.			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	H.B.M.	823	250	34	24	33	29	0	0	9	19	26	45	24	13	256	0	6	6
	Total :-	2064	605	51	27	91	46	0	0	22	39	58	62	37	71	504	110	9	9
BASUNDHARA G. AREA																			
Non Statutory	G.M.Office	508	20	0	0	0	0	0	0	0	1	0	0	0	0	1	19		
Statutory	B. (West) OCP	499	60	14	7	5	3	0	0	0	24	13	18	0	0	84	0	0	24
	B. (Kulda) OCP	251	40	5	11	4	6	0	0	7	0	0	5	5	18	61	0	18	21
	Searmal Area	24	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20		
	GOCP	310	62	28	21	24	18	0	0	0	7	13	34	0	0	145	0	0	83
	Total :-	1592	202	47	39	33	27	0	0	7	32	26	57	5	18	291	39	18	128
CENTRAL WORKSHOP																			
		185	62	0	0	0	0	0	0	0	14	8	0	12	3	37	25		
TOTAL PME																			
		7484	2017	181	124	245	166	0	0	54	172	206	282	162	255	1847			
Mines Rescue																			
				3	3	13	14	0	0	0	16	18	8	4	14	93			
Contractual Worker																			
				224	182	65	54	0	0	20	84	84	94	325	381	1513			
GRAND TOTAL PME																			
				408	309	323	234	0	0	74	272	308	384	491	690	3453			

PME	Manpower	Target	Current	Progr.	Balance	Excess
Ib Coalfields	7484	2017	650	3453	0	

Grand Total PME for this month - 650

- c to:-
1. C.G.M.,Lakhapur Area.
 2. C.G.M. (S&R), MCL, HQ, Burla
 3. G.M.,Ib Valley Area.
 4. G.M.Orient Area.
 5. G.M.,Basundhara Area.
 6. G.M.,Central Workshop
 7. C.M.S. /c, CH, Ib Valley.
 9. Area Safety Officer,IB Valley Area
 10. Area Safety Officer,Lakhapur Area.
 11. Area Safety Officer,Orient Area.
 12. Area Safety Officer,Basundhara Area.
 13. Area Medical Officer,Orient Area.
 14. Area Medical Officer,Basundhara Area
 15. Area Medical Officer,Lakhapur Area.

Safety Officer, Soep
Jus
18/1/22

Yours faithfully,

Nikhil
14.01.2022
 Dy. Chief Medical Officer (OH /c)
 Ib Coalfields

To 2017 - 07484 Manpower & 2017 Soep, IB Valley Area

MAHANADI COALFIELDS LIMITED
OFFICE OF THE CHIEF OF MEDICAL SERVICES
IB COALFIELDS

6/5/22
 Dt 30.04.2022
 02/05/2022

Ref No. MCL/IBV/CH/PME/2022/ 171

The Chief of Medical Services (MCL)
 Jagruti Vihar, Buxa

Sub: Monthly PME report of IB Coalfields for the month of April- 2022

Sir,
 Mentioned below is the P.M.E. Performance report in respect of Ib Valley, Orient, Lakhanpur, Basundhara Garjanbahal Area, Central Workshop and Mines Rescue Station for your kind information and needful.

Units	Man power	Target	ACHIEVEMENT IN 2022												Progre sive	Balance	Excess	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			Current	Prog.
IB VALLEY AREA																		
C.G.M.+Reg.S.			0	4	0	0										4		
Central Hosp.			0	0	0	0										0		
S.O.C.P.			0	18	24	28										70		
L.O.C.P.			1	19	13	14										47		
Total :-	0	0	1	41	37	42										121		
LAKHANPUR AREA																		
G.M.Office			0	0	0	7										7		
B.O.C.M.			11	38	33	36										118		
LKPOCP			0	3	46	0										49		
Lihan OCP.			0	0	0	0										0		
Total :-			11	39	79	43										172		
ORIENT AREA																		
C.G.M.Office	215	80	0	0	0	0										0	60	
O.S.A.	124	41	0	0	0	0										0	41	
R.S.A.	94	27	0	0	0	0										0	27	
Mine No.1 & 2	623	184	0	19	12	20										51	113	
Mine No.3	86	13	0	0	4	4										8	5	
Mine No.4	40	10	0	0	0	2										2	8	
H.R.C.	0	0	0	0	0	0										0	0	
H.B.M	782	230	23	31	14	18										86	144	
Total :-	1844	545	23	50	38	44										147	368	
BASUNDHARA G. AREA																		
G.M.Office			0	0	0	0										0		
B. (West) OCP			0	0	6	34										39		
B. (Kulda) OCP			0	0	0	0										0		
Searmai Area			0	0	0	0										0		
G.OCP			7	3	0	1										11		
Total :-			7	3	6	35										60		
CENTRAL WORKSHOP																		
			0	0	0	0										0		
TOTAL PME			42	133	151	164										498		
Mines Rescue			8	24	18	5										54		
Contract Worker			68	27	27	100										223		
GRAND TOTAL PME			120	184	194	289										767		

PME	Manpower	Target	Current	Progr.	Balance	Excess
Ib Coalfields			289	767	0	

Grand Total PME for this month - 289

- | | |
|--------------------------------|---|
| 1. C.G.M., Lakhanpur Area. | 9. Area Safety Officer, IB Valley Area. |
| 2. C.G.M. (S&R), MCL HQ, Buxa | 10. Area Safety Officer, Lakhanpur Area. |
| 3. G.M., Ib Valley Area. | 11. Area Safety Officer, Orient Area. |
| 4. G.M. Orient Area. | 12. Area Safety Officer, Basundhara Area. |
| 5. G.M. Basundhara Area. | 13. Area Medical Officer, Orient Area. |
| 6. G.M. Central Workshop | 14. Area Medical Officer Basundhara Area. |
| 7. C.M.S. (I/c. CH, Ib Valley. | 15. Area Medical Officer, Lakhanpur Area. |
| 8. CMS, MCL, HQ. Buxa | 16. Area Personnel Manager, Central Workshop. |

*for record P. ...
 30.04.2022
 Safety Officer
 215M
 sou.*

Dy. Chief Medical Officer (OH Ic)
 Ib Coalfields