



MCL



Office of the Project Officer
Lakhanpur OCP, Lakhanpur Area
MAHANADI COALFIELDS LIMITED
(A Government of India Enterprise)
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Ref: MCL/LKPA/LKPOCP/Envt. /2023-24/ 4210

Date: 22.11.2023

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To

The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3,
Chandersekharpur, Bhubaneswar – 751023

Kind Attention:

Director (S),
Ministry of Environment, Forest and Climate Change, Integrated Regional Office
Chandersekharpur, Bhubaneswar-751023

Sub: Half yearly Environmental Clearance compliance report with respect to Lilari Opencast Project, Lakhanpur Area, MCL for the period April 2023 – September 2023.

Ref: No-J-11015/27/89-IA Dated: 30/07/1990

Dear Sir,

Enclosed herewith please find the Half yearly Environmental Clearance compliance report with respect to Lilari Opencast Project, Lakhanpur Area, MCL for the period April 2023 – September 2023.

Encl: As above

Thanking you,


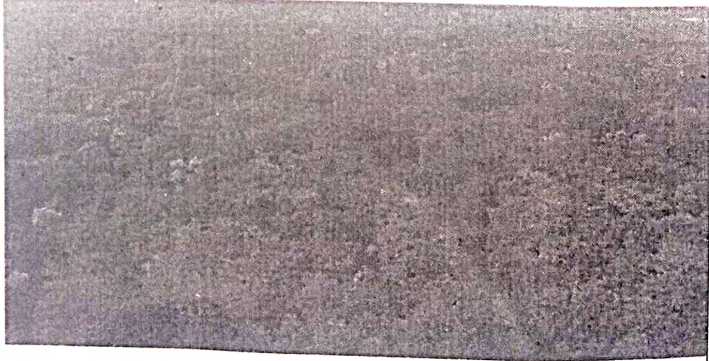
Yours faithfully,

Project Officer



Lakhanpur OCP/ Lilari OCP
Project Officer
Lakhanpur OCP
Lakhanpur Area, MCL

Copy to:

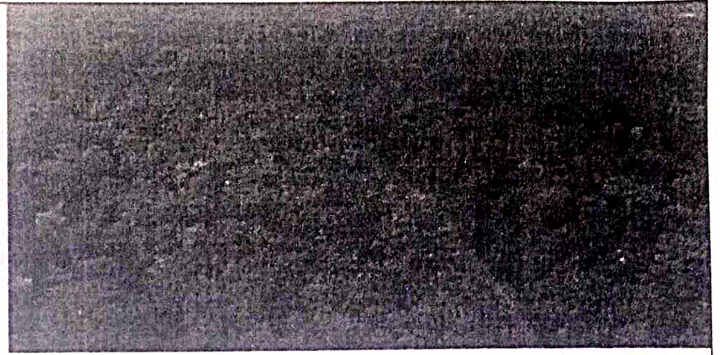
1. Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar, Odisha -751012.
2. Regional Officer, Odisha State Pollution Control Board, (Department of Forest & Environment, Govt. of Odisha) Plot No.-370 / 5971, At. -Babubagicha (Cox Colony), St. Mary Hospital Road, Post- Industrial Estate, Jharsuguda - 768203.
3. General Manager, Lakhanpur Area
4. General Manager (Envt. & Forest), MCL HQ.
5. Area Environment Officer, Lakhanpur Area.
6. Office copy

S. No.	Condition	Compliance
1	Step-Pyramid Method would be followed for dumping of over burden outside the mine area to ensure that the reclamation of the dump is carried out simultaneously with the construction of this dump.	<p>The mine has stopped operations since 01.04.2018. The mine area is a part of Integrated Lakhanpur-Belpahar-Lilari OCP (40MTY) in which the mine areas of Lakhanpur OCP, Belpahar OCM and Lilari OCP will be amalgamated for extraction of bottom seams. External dump covers an area of 25.40 Ha and the entire area of the external dumps have been completely Biologically reclaimed and stabilized with plantation.</p>  <p style="text-align: center;">Stepped-Pyramid OB dump stabilized with plantation</p>
2	When the mine exhausted coal faces on the dip and the two high walls on the sides (approx. thickness of 29 meters) will be covered with top soil and sub soil to prevent any danger of spontaneous heating and subsequent environment insecurity.	<p>The mine has stopped operations since 01.04.2018. The entire area is covered with top soil and 26.00 Ha of the excavated area is backfilled and biologically reclaimed. There is no spontaneous heating and environmental insecurity.</p>  <p style="text-align: center;">Biologically Reclaimed Excavated Area</p>

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3	<p>The mine water quality shall be monitored during the monsoon and these results shall be submitted to the Ministry of Environment and Forests. In case concentration of certain pollutants exceeds the prescribed limits detailed measures for treating the water to bring it within the prescribed limits shall also be outlined. Nitrate content in the water should also be determined.</p>	<p>The mine has stopped operations since 01.04.2018. The mine area is a part of Integrated Lakhanpur-Belpahar-Lilari OCP (40MTY) in which the mine areas of Lakhanpur OCP, Belpahar OCM and Lilari OCP will be amalgamated for extraction of bottom seams. However, mine sump water is being monitored yearly.</p>  <p style="text-align: center;">Lilari Mine Sump</p>
4	<p>Reclamation of the quarried area would be carried out as per the plan incorporated in the EMP</p>	<p>The mine has stopped operations since 01.04.2018. Biological reclamation of the quarried area has been carried out as per EMP. An area of 60.03 Ha has been excavated in which 45.01 Ha has been de-coaled in which 26.00 Ha has been biologically reclaimed the remaining area has been left for mine sump and approach roads.</p> 

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Biologically Reclaimed quarried area

5	All other pollution control measures listed in the Environmental Management Plan would be strictly implemented as per schedule.	The mine has stopped operations since 01.04.2018. The mine area is a part of Integrated Lakhanpur-Belpahar-Lilari OCP (40MTY) in which the mine areas of Lakhanpur OCP, Belpahar OCM and Lilari OCP will be amalgamated for extraction of bottom seams.
6	A periodic progress report regarding implementation of the control measures shall be submitted to the Ministry every three months.	The mine has stopped operations since 01.04.2018. The mine area is a part of Integrated Lakhanpur-Belpahar-Lilari OCP (40MTY) in which the mine areas of Lakhanpur OCP, Belpahar OCM and Lilari OCP will be amalgamated for extraction of bottom seams. Further, Previous report submitted to ministry vide no. MCL/GM/LKPA/AEO/2022-23/12 Date: 29.04.2023
7	The effluents discharged will conform to the standards prescribed by the Central/State Pollution Board and/or under Environment (Protection) Act, 1986. Sufficient number of air and water quality monitoring stations will be set up.	There is no effluent generation from the mine. The mine has stopped operations since 01.04.2018. The mine area is a part of Integrated Lakhanpur-Belpahar-Lilari OCP (40MTY) in which the mine areas of Lakhanpur OCP, Belpahar OCM and Lilari OCP will be amalgamated for extraction of bottom seams.
8	Regular monitoring of various environmental quality parameters would be carried out by the project authorities and the results of the monitoring would also be included in the quarterly progress report to be submitted to this Ministry.	Regular monitoring of environmental parameters such as ambient air quality and mine water quality is being monitored. The mine has stopped operations since 01.04.2018. The mine area is a part of Integrated Lakhanpur-Belpahar-Lilari OCP (40MTY) in which the mine areas of Lakhanpur OCP, Belpahar OCM and Lilari OCP will be amalgamated for extraction of bottom seams.
9	The project will have an Environmental Cell for monitoring quality of water, air, solid wastes, greening and other action	An Environmental cell has been constituted for the project. A project manager of E6 grade oversees the environmental activities directly reporting to Project

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	plans for protection of environment.	Officer and guided by Area Environment Officer and Environment Department at MCL HQ.
10.	This Ministry may stipulate any other conditions as may be required in the interest of environmental protection.	Any condition imposed by Ministry required in the interest of environmental protection will be complied.
11	The implementation of these conditions and safeguards will be ensured, among others, under the provisions of the Environment (Protection) Act, 1986.	All the conditions and safeguards under the provisions of the Environment (Protection) Act, 1986 are being complied.

Ambient Air Quality Monitoring						
Monitoring Station	Date of Sampling	PM 2.5	PM10	SO2	NOx	SPM
Near Lilari Magazine House	07-Apr-23	26	71	14.93	21.73	149
Near Lilari Magazine House	21-Apr-23	39	92	14.82	25.29	185
Near Lilari Magazine House	13-May-23	38	87	16.32	14.91	181
Near Lilari Magazine House	27-May-23	40	88	12.74	17.37	186
Near Lilari Magazine House	07-Jun-23	31	82	17.92	14.7	162
Near Lilari Magazine House	17-Jun-23	46	95	14.22	12.75	202
Near Lilari Magazine House	08-Jul-23	40	89	12.86	18.54	185
Near Lilari Magazine House	21-Jul-23	37	88	13.43	18.78	177
Near Lilari Magazine House	09-Aug-23	34	82	10.80	13.90	169
Near Lilari Magazine House	21-Aug-23	36	84	12.25	16.58	175
Near Lilari Magazine House	07-Sep-23	34	85	18.57	16.09	167
Near Lilari Magazine House	23-Sep-23	40	89	19.31	18.41	186

Water Air Quality Monitoring						
Monitoring Station	Date of Sampling	pH	O&G	TSS	COD	
Mine Sump Water	11-Apr-23	7.25	<4.0	48	44	
Mine Sump Water	13-Jul-23	6.83	<4.0	38	20	


 Project Officer
 Lakhanpur OCP/ Lilari OCP
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 Lakhanpur Area, MCL