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ADITYA BIRLA



HINDALCO

Ref. No.: HIL/EC/GP-IV/5/2015 /ol

Date: 26.10.2015

The Regional Director,
Ministry of Environment & Forests (MoEF)
(Govt. of India)
Regional Office, Western Region,
Kendriya Paryavaran Bhawan, Link Road No. 3
E-5, Ravishankar Nagar,
Bhopal – 462 016 (M.P.)

Sub.: Six Monthly Environment Clearance Compliance Status Report for Gare Palma IV/5 Coal Mine at Village: Milupara, District: Raigarh, C.G., along with Environment Monitoring reports.

Ref. Environment Clearance No. J-11015/ 8/1998-IA.II (M) Dated: - 16th April 2015.

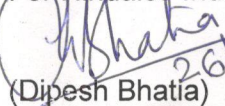
Sir,

We would like to bring to your notice that, the Office of the Nominated Authority, Ministry of Coal, GOI, has been allotted Gare Palma IV/5 Coal mine to M/s Hindalco Industries Ltd. vide vesting order under clause (b) of sub- rule (2) of rule 7 and sub-rule (1) of rule 13 of Coal Mines (Special Provisions) Second Ordinance, 2014.

We hereby submitting the Six Monthly Environmental Clearance Compliance status report along with Environmental Monitoring report for Ambient Air, Water, Noise, during the period of **April 2015 to September 2015.**

This is for your kind information please.

Thanking you,
Yours faithfully,
For Hindalco Industries Limited,


(Dipesh Bhatia)
26/10/2015

Asst. Vice President
Gare Palma IV/5,
Village: Milupara, Tehsil: Tamnar, District: Raigarh, Chhattisgarh – 496107.

Encl. : **Six Monthly Environmental Clearance Compliance Report as Annexure-A.**

CC To:

1. The Member Secretary, Chhattisgarh Environment Conservation Board, Housing Board Colony, Kabir Nagar, Raipur Chhattisgarh.
2. Zonal Officer, Central Pollution Control Board, Sahkar Bhawan, 3rd Floor, North T.T. Nagar, Bhopal – 462 003 (M. P.)
3. Regional Officer, Chhattisgarh Environment Conservation Board (CECB), T.V. Tower Road, Raigarh (C.G.)



HINDALCO INDUSTRIES LIMITED
Gare Palma IV / 4 & IV / 5
Vill. & P.O. Milupara, Tehsil - Tamnar
Dist : Raigarh 496 107, Chhattisgarh

REGISTERED OFFICE

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Corporate Identity No. L27020MH1958PLC011238



Compliance Report on Environment Clearance for Gare-Palma IV/5 coal mining project given by Ministry of Environment & Forests vide letter No. J-11015/ 8/1998-IA.II (M) Dated: - 16th April 2015 for Under Ground Mining 1.0 Million Ton/Annum Production Capacity

Sr. No.	Conditions	Status
1	Any change in scope of work will attract the provisions of Environment Protection Act (EPA), 1986 and Environment Impact Assessment Notification, 2006 in conjunction with the subsequent amendments/circulars.	Noted please.
2	All conditions stipulated in the EC letter No.J-11015/8/1998-IA.II (M) dated 31 st August, 2000 shall remain unchanged.	Noted please.
3	The successful bidder shall be liable, if any, for any act of violation of the EPA 1986/EIA Notification 2006/subsequent amendments and circulars which it has inherited during the transfer.	Noted please.
4	Successful bidder shall be liable for compliance of all court directions, if any.	Noted please.

Compliance Report on Environment Clearance for Gare-Palma IV/5 coal mining project given by Ministry of Environment & Forests vide letter No. J-11015/ 8/1998-IA.II (M) Dated: - 31st August 2000 for Under Ground Mining 1.0 Million Ton/Annum Production Capacity

Sr.No.	Specific Conditions	Status
i	Regular Monitoring of subsidence movement on the surface over working areas and impact on water bodies/ vegetation/ structures/ surroundings should be continued till movement ceases completely. In case if observation of any high rates of subsidence movement, appropriate measures should be taken to avoid loss of life and materials. Cracks should be effectively plugged with ballast and clayey soil/ suitable material.	Agreed and will be complied accordingly.
ii	Adequate underground barrier should be left in consultation with DGMS. Depillaring also be carried out after taking approval from DGMS	Agreed and will be complied accordingly.
iii	Garland drains should be constructed around the waste rock and ore stockpiles to prevent surface run-off	Agreed and will be complied accordingly.
iv	A Green Belt of adequate width should be raised by planting the local species along the mine boundary,	Agreed and will be complied accordingly.

Gare Palma IV/5 Coal Mine, Milupara

Abhatai



	Waste rock dumps, ore stockpile, ventilation fan road and selected open areas in consultation with local DFO/ Agriculture Department. Density of tree should be at least 2500 plants per ha	
v	Compensation to the 14 land losers from whom private land will be acquired should be paid as per the state government norms	Compensation given through State Government by Prior Allottee.
vi	The project authority should conduct a subsidence estimation study and submit the report to the Ministry within six months	Agreed and will be complied accordingly.
vii	The project proponent will construct "Check dams "at the sites proposed by the State Ground water Department in their report. While undertaking the proposed mining, the construction of the check dams should be carried out in with Ground water survey department, Government of MP (presently Chhattisgarh) and should have necessary financial provision and technical expertise. This should be communicated to the MoEF and CGWB	Agreed and will be complied accordingly.
viii	Regular monitoring of the Ground water level and quality should be carried out by establishing a network of existing wells and constructing new Piezometer during the mining operations. The interval of monitoring should be four times a year- Pre monsoon (April to May), Monsoon (August), Post Monsoon (November) and winter (January). The data thus collected may be sent regularly to MoEF and CGWB for information.	Agreed and will be complied accordingly.
ix	Digital processing of the entire lease using remote sensing technique should be regularly once in three years for monitoring land use pattern and report submitted to MoEF and its regional officer.	Agreed and will be complied accordingly.
x	A detailed mine decommissioning plan should be submitted to the MoEF five years five years in advance for approval	Agreed and will be complied accordingly.
B	General Conditions	Agreed and will be complied accordingly.
i	No change in mining technology and scope of working should be made without prior approval of the MoEF	Agreed and will be complied accordingly.
ii	No change in the calendar plan including excavation quantum of mineral coal and waste should be made	Agreed and will be complied accordingly.
iii	Four ambient air quality stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO ₂ , Nox & CO Monitoring. Location of stations should be decided based on the meteorology data, topographical features and environmental and ecologically sensitive targets in consultation with the State Pollution Control Board	Agreed and will be complied accordingly.
iv	Data of ambient air quality (RPM, SPM, SO ₂ , Nox & CO) should be regularly submitted to the Ministry including its	Agreed and will be complied accordingly.



	Regional Officer at Bhopal (Currently Raipur) and the State Pollution Control Board & Central Pollution Control Board	
v	Drill should be wet operated	Agreed and will be complied accordingly.
vi	Fugitive dust emission from all the sources should be controlled, regularly monitored and the data recorded properly. Water spraying arrangement on haul roads, Wagons, loading dump trucks (loading and unloading) should be provided and properly maintained	Agreed and will be complied accordingly.
vii	Adequate measures should be taken for control of noise level below 80db in the work environment. Workers engaged in blasting and drilling operation, operations of HEMM etc. should be provided with ear plugs/ muffs	Agreed and will be complied accordingly.
viii	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform on the standards prescribed under GSR 422 € dated 19.05.1993 and 31.12.1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents in to the pond	Agreed and will be complied accordingly.
ix	Acid mine water if any has to be treated and disposed off after conforming to the standards prescribed by the competent authority	Agreed and will be complied accordingly.
x	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board	Agreed and will be complied accordingly.
xi	Personnel working in dust area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance of the workers should be undertaken periodically to observe any contractions due tp exposure to coal dust and take corrective measures if needed.	Agreed and will be complied accordingly.
xii	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive who will report directly to the Head of the Organization	Agreed and will be complied accordingly.
xiii	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to Ministry	Agreed and will be complied accordingly.
xiv	The Regional Officer of the ministry located at Bhopal (currently Raipur) shall monitor compliance of the stipulated conditions. The project authorities should extent full co-operation to the officer (s) of the Regional Officer by furnishing requisite data information / monitoring reports	Agreed and will be complied accordingly.



xv	A copy of the clearance letter will be marked to concerned Panchayat/ local NGO if any from whom suggestion / representation has been received while processing the proposal	Complied by Prior Allotee.
xvi	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's office for 30 days	Agreed and will be complied accordingly.
xvii	The project authorities should advertise at least two local newspapers widely circulated around the project one of which shall be in vernacular language of the locality concerned informing that the project has been accorded environmental clearance and the copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the MoEF at http://envfor.nic.in	Complied by Prior Allotee.

Abhata

**Ambient Air Quality Monitoring**

(July 2015 to September – 2015)

Sr.No.	Location	Parameters	Results ($\mu\text{g}/\text{m}^3$)			
			July'15	Aug'15	Sep'15	Average
1	Milupara Mines (near office area)	PM ₁₀	60	58	60	59
		PM _{2.5}	11	10	09	10
2	Kondkel ETP Area	PM ₁₀	61	59	63	61
		PM _{2.5}	10	10	08	09
3	HIL Staff Quarter	PM ₁₀	58	57	58	58
		PM _{2.5}	10	09	10	10
4	HIL Colony - Kondkel	PM ₁₀	59	56	59	58
		PM _{2.5}	11	10	09	10

Gare Palma IV/5 Coal Mine, Milupara



Noise level Monitoring

(July 2015 to September – 2015)

S. No.	Location		Results dB(A)			
			July'15	Aug'15	Sep'15	Average
1	Milupara Office Area	Day	50	51	50	50
		Night	48	49	48	48
2	Kondkel Office Area	Day	53	52	53	53
		Night	51	50	51	51
3	HIL Staff Quarter	Day	42	40	42	41
		Night	37	38	37	37
4	HIL Colony - Kondkel	Day	41	40	41	41
		Night	39	37	37	38
5	Milupara Bunker area	Day	58	55	56	56
		Night	56	53	54	54
6	Milupara area near incline	Day	59	58	59	59
		Night	57	56	57	57
7	Kondkel Bunker area	Day	61	59	61	60
		Night	59	57	59	58
8	DG Set area	Day	73	72	73	73
		Night	71	70	71	71
9	Milupara Mines Weighbridge	Day	61	60	59	60
		Night	59	58	57	58

Gare Palma IV/5 Coal Mine, Milupara

**Waste Water Analysis**

(July 2015 to September – 2015)

S. No	Test Parameters	Unit	Results			
			July'15	Aug'15	Sep'15	Average
1	pH Value	-	7.75	7.69	7.81	7.75
2	Total suspended solids (TSS)	mg / l	20	18	20	19
3	Oil and grease	mg / l	Nil	Nil	Nil	Nil
4	Free Chlorine	PPM	Nil	Nil	Nil	Nil

Gare Palma IV/5 Coal Mine, Milupara

**Ground water level monitoring in and around the Coal Mine area****(Month : August 2015)**

Sr.No.	Location	Types of structure	Water level (MBGL)
1	Bankheta (Near HIL Office)	Borewell	6.20
2	Banjikhhol (Near Office)	Borewell	10.80
3	Milupara (PHC-HIL)	Dugwell	4.00
4	Urba (Near Intermediate school)	Dugwell	5.25
5	Sakta (Near Primary School)	Dugwell	2.00
6	Sidarpara (Primary School compound)	Dugwell	5.40