সহাত্রবা জোন্ ঐন্তর্ নিসিবেত্ महानदी कोलफील्डस लिमिटेड Mahanadi Coalfields Limited

(A subsidiary of Coal India Limited)

Bhubaneswar-751023

OFFICE OF THE PROJECT OFFICER (T&H/D)
TALCHER COLLIERY
PO:-DERA COLLIERY, DIST:ANGUL
(ODISHA), PIN:759103

E_mail: potalcher2016@gmail.com



No.PO(T&H)/Talcher/Half-yrly/EC Compliance report/2020-21//380

Date: 25/11/2

To

The Additional Director,
Ministry of Environment Forest & Climate Change,
Eastern Zonal Office,
A-3, Chandrashekharpur,

Sub:-Submission of Half Yearly Compliance Report of Environmental Clearance condition in respect of DEULBERA U/G Mine.

Dear Sir.

Enclosed please find herewith Half Yearly Compliance Report along with Form-I, II & III and abstract of the monitoring report of Ambient Air, Noise level & Water Effluent quality in respect of **DEULBERA U/G Mine (0.20 MTY)** for the period from April'2020 to September'2020.

This is for your kind information & necessary action.

Encl: As above.

Yours faithfully

PROJECT OFFICER (T&H/D)
DEULBERA COLLIERY

Copy for Kind information:

- The Director, E.I.A Monitoring Cell, Ministry of Environment & Forest, Paryavaran Bhawan, C.G.O.Complex, New Delhi-100003 (With Encl.)
- 2. The Member Secretary, State Pollution Control Board (Odisha), A/118, Nilakanthanagar, Unit-VIII, BBSR-751012. (With Encl.)
- 3. The Regional Officer, SPCB (Odisha), Regional Office, Industrial Estate, Angul. (With Encl.)
- 4. The General Manager, MCL, Talcher Area.
- 5. The General Manager (Environment,) MCL HQ, Burla, Sambalpur.

Copy to:

- 1. The Colliery Manager, Deulbera Colliery.
- 2. The Area Environment Officer, Talcher Area (with Encl.)
- 3. The Nodal Officer (Envt.), Talcher Colliery (with Encl.)

HALF YEARLY PROGRESS REPORT OF COMPLIANCE WITH ENVIROMENTAL CLEARANCE CONDITIONS

(APRIL-2020 TO SEPTEMBER-2020)

DEULBERA U/G MINE (0.20 MTY)



MAHANADI COALFIELDS LIMITED
TALCHER AREA
AT/PO: DEULBERA, TALCHER, ODISHA
PIN-759102.

Present Status of the Project

The production of the Mine was suspended from dt.19.7.2006 as the Executive Engineer, Right Main Canal Division, had intimated the Project Officer, Deulbera Colliery; in regard to release of water vide his letter dtd: 15.07.2006.

Hence there is no production from the mine since 19.07.2006 due to passage of Right Main Canal over the Underground working and Director, Mine safety, Bhubaneswar region prohibited allowing the persons below ground due to unsafe conditions. All men and machineries were withdrawn from underground. Therefore, there is no generation of pollution in the ambient air from mining activity. It is further informed that the mine would be officially declare about its closure after mine closure plan is prepared and approved by the concerned authority and completion of stabilization work.

As advised by Director of Mines Safety, Bhubaneswar, hydro-pneumatic Sand stowing in conventional method from surface has been undertaken by M.C.L. from dt.27.11.2006 in the Panels, namely, R-0, R-1, R-1B & TT-1 identified by him.

The status of compliance to environmental conditions applicable at present are provided below:

COMPLIANCE OF EC CONDITIONS OF DEULBERA COLLIERY

SL.	EC Conditions		Comp	oliance Stati	us	101		4-17	4.524
1.	The SPM level in the ambient air should not exceed 500 µg/m ³ at any observation point within the mine leasehold. The emissions or SO2, NO	the parameters are found within the permissible limited detailed report is given in Annexure – I							
	and CO should be maintained below the levels prescribed by the competent		Location/	Parameters	PM _{2.5}	PM ₁₀	SO ₂	NOX	SPM
	authority.		Manager's Office	Avg.	25.62	77.5	10.63	17.46	131.5
2.	The quality of effluent finally discharged into the main water course shall conform to the standard prescribed under notification No.0511 919(II) dated 12.09.1988.	pu the	rposes is be e permissibl tailed report i	e water which ing monitore e limits and s given in An	ed regulared average nexure	arly. A e value - II	ll the p	aramet s follo	ers with
			Location	/ Param	eters	pH	0&G	TSS	COI
			Raniparl Submersib pump		g.	7.26	< 4.0	34.18	36.7

3.	The likely subsided area should be brought back to the original land use pattern to the maximum extent possible the reclamation of subsided area and subsequent plantation /agricultural activity should be carried out as per the Environmental management plan. The ultimate area of agricultural land after mining operation should be 694 hectares.	There is no record of supattern is not disturbed operation, the ultimate 1 694 hectares.	due to minin	g operation. A	fter mining		
4.	The coal Handling Plant and Fan House should be designed to minimize noise and polymers including rubber and polyurethane should not exceed the norms prescribed by the competent authority.	There is no CHP, as the However regular monitories level found within the provided in Annexure –II	oring of Noise prescribed st	is being done	e and noise		
		Noise Meas	BA				
		Location	Location DAY NIGHT				
		Manager's Office	60.10	56.38			
5,	Regular monitoring of ambient air and water quality and noise levels should be done and recorded data should be furnished to this Department once in three months.	Regular monitoring of A are being carried out and data are being furnished Annexure-I, II & III	d found within	prescribed limi	t. Recorded		
6.	No change methodology of working and the scope of working should be made without the approval of this Ministry.	working. There is no coal production since 19.07.2006					
7.	The green belt around associated industrial complete residential colony should be provided as per the Environmental Management plan. The afforestation scheme should lay on mixed culture rather than monoculture	Adequate plantation has industrial complete resafforestation has been dispecies) Eg. Chankunda Debadaru, Guava etc. Detailed report is provid	sidential colon lone based on i, Mango, Nima	y as per the mixed culture a, Jack, Kendu	EMP and (Indigenous		
8.	The project authority should submit to this Ministry a quarterly in respect of environmental control measures.	Half yearly compliance	report is being s	sent on regular	basis.		
9.	A separate Environmental management cell with suitably qualified personal to carry out various functions relating to Environmental management should be set up under the control of senior technical person who will directly report to chief Executive of the area. A laboratory facility should be set up for collection and analysis of samples.	A separate environment personal is established person who directly repo Environmental monitori having adequate laborate	under the co orts to General l ng works is bei	ntrol of Senion Manager of the ing done through	or technical area/HQ. th CMPDIL		

10.	The funds (Both capital and revenue) earmarked for environmental control measures should not be diverted for any other purpose.	being utili Expenditure	earmarked for environmental zed and it is not used for the towards Environmental protection wen below;	or any other purpose.
		Year	Expenditure for Environment Protection	
		2017-18	19.33 Lakhs	
		2018-19	22.776 Lakhs	
		2019-20	16.28 Lakhs	
11.	The Ministry may additional conditions if so necessitated either by in scope of the project or on the basis of feedback on impacts.	NA.		

FORM - 1

MINISTRY OF ENVIRONMENT & FOREST REGIONAL OFFICE MONITORING PROFORMA PART – I (DATA SHEET)

			:	Mining
	1.	Project type: River - Valley/Mining/Industry		
		Thermal/Nuclear/Other (Specify).	:	Deulbera
2	2.	Name of the Project	:	J-11015
	3.	Clearance letter(s) OM No. & dt.		
3	4.	Location:	:	Angul, Od
		a) District(s), State(s)	:	Sri D.Saho
	5.	a) Address of concerned project Chief Engineer		Deulbera
		(with pin code & Telephone/Telex/Fax Nos.)		Ph.06760-

- b) Address of Executive Project Engineer Manager with Pin code and Telephone/Telex/Fax Nos.)
- 6. Salient Features: a) Of the Project
 - b) Of the Environment Manager plans
- 7. Breakup of the Project Area a) Submergence area (forest & non-forest) b) Others
- 8. Breakup of the Project affected population with enumeration of those losing houses\dwelling units only agricultural lands only, both dwelling units and agricultural land and less laborers/artisans.
 - a) SC/ST Advises
 - b) Others
- 9. Financial Details
 - a) Project costs as originally planned and subsequent revised estimates and the years of price
 - b) Allocation made for environment management plans, with item wise and year wise breakup.
 - c) Benefit cost ratio/interest rate of return and year assessment.
 - d) Whether © includes the cost of environment management as shown in (B) above.
 - e) Actual expenditure incurred on the Project so
 - f) Actual expenditure incurred on the environment management plans

Colliery (UG)

5/5/91.1A-1D, dated. 22.6.1992

disha

100, Project Officer, (T&H/D) Colliery, Dist-Angul (Odisha),)-269955 (O)

: It is a discontinued underground coal mine project

No Production since Aug'2006

: - NA -

: - NA -

: - NA -

: - NA -

: 1496 Lakhs

: Allocation made for EMP - 4.81 lakhs

a) Afforestation cost: 3.5 lakhs;

b) Pollution measuring cost: 0.58 lakhs;

c) Envt. Quality data gen. cost: 0.73 lakhs

: Yes

: 1479.75 lakhs

: 16.28 Lakhs (2019-20)

10		
10	a) A status of approval of diversion of forest and	-NA-
	non-forestry use.	
	b) A status of clean filling in forest and non-forest lands	-NA-
	c) Comments on availability and sustainability compensatory afforestation program in the light of actual fell experience so far.	-NA-
11.	Status of Construction.	
	a) Date of commencement (actual and/or planned)	1928
	b) Date of completion (actual and/or planned)	-NA-
12.	Reason for the delay if the project is yet to start.	-NA-
13.	Date of site visit	
	 a) The dated on which the project was monitored by the Regional Officer on the previous occasions if. 	04.03.2020
	b) Date of site for the monitoring report.	04.03.2020
14.	Details of correspondence with Project Authorities	
	for obtaining action plans information and status of compliance to safeguards.	-NA-

FORM-II

PROFORMA FOR PROVIDING INFORMATION ON REHABILITATION

1. No. of Villages Affected : Nil

2. Families Affected : Nil

3. Compensation package offered per family : Nil

State/Centre Norms	Project package		
As per State	e Government R&R policy		

4. Budget Estimate for rehabilitation : Nil

a) Total Outlay

b) Amount Paid/used : Nil

5. Employment Details

Total Employment to be provided : Nil

Employment given So far

6. Rehabilitation / Resettlement details

a) No. of Families rehabilitated : Nil

Name of the site

Families Rehabilitated

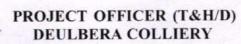
b) Families yet to be rehabilitated : Nil

i) Name of the site

ii) No. of families

7. Any other Information : Nil

2511. 2020



FORM-III FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/PLANTATION UNDER F©ACT 1980 AND E (P) ACT 1986

1. a. Name of Organization

: MAHANADI COALFIELDS LTD.

b. Envt clearance order No.

: J – 11015/5/91.1A-11 dated. 22.6.1992

2. Location Block/Sub Division/ District./State.

: Talcher, Dist-Angul/Odisha

3. Address for communication

: Project Officer, Deulbera Colliery,

Po-Deulbera Colliery, Dist - Angul, Odisha,

Pin-759102

4. Existing vegetation in the area/region

a. Species (Trees/shrub/Grasses/climbers.)

: Trees, Shrubs

b. major prevalent species of each type

: Chakunda, Mango, Jack, Debadaru, Nima, Ukalipu, Kendu, Guava, Tamraid, Appie

5. Land coverage by the project

a. Total Area under the project

b. Area covered for basic infrastructure (road, building/factory etc.)

: 954.101 Ha : 172,472 Ha

6. Details about natural vegetation

a. Name and number of tree/species felled

b. Name and number of plants species still

: Chakunda, Mango, Jack, Debadaru, Nima, etc

available in the area

: 7,680 Nos : Nil

: ---

c. By protecting the area will indigenous

d. Extent of green belt developed.

7. Plantation required to be carried out as per.

a. Condition of Environment

(Clearance in Ha/No.s plants/Ha)

: 2500 Nos.plants/Ha

b. A condition of forest @ Act

Forest clearance in Ha/No.

: 1600 Nos.plants/Ha

c. Voluntarily in Ha. /Nos.

: 2500 Nos./Ha.

8. Details about plantation.

Total area available for plantation in 2020-21 in each category.

Green belt	Ext dump	B/F Area	Road sides	Block plantations	Remarks
Nil	Nil	Nil	Nil	0.02	

a) Plantation details (Category wise & methodology used)

Year of plantation		Spacing	Height attained	Total area covered till Sep'20	Plantation 2020-21	done	in
1990 - to- 2020	As mentioned above	2m x 2m	6 to 9 meter	3.86 Ha	50		

b) Survival % of plantation (for last five years): 80 - 85 % after 3 years of plantation.

9. Agency carrying out plantation and maintenance: Orissa Forest Development Corporation Ltd., Angul (C-KL) Division.

10. Financial Details. (Year wise and item wise)

Sl No	Year	Fund allocated (In Lakh Rs. For 3 years.	Expenditure made in lakh Rs. For 3 years.	Average cost each surviving plants in Rs. (plantation scheme valid for 3 years)
1.	1990-91	Nil	Nil	Nil
2.	1991-92	Nil	Nil	Nil
3.	1992-93	Nil	Nil	Nil
4,	1993-94	Nil	Nil	Nil
5.	1994-95	Nil	Nil	Nil
6.	1995-96	Nil	Nil	Nil
7.	1996-97	Nil	Nil	Nil
8.	1997-98	Nil	Nil	Nil
9.	1998-99	Nil	Nil	Nil
10.	1999-2000	Nil	Nil	Nil
11.	2000-01	Nil	Nil	Nil
12.	2002-03	Nil	Nil	Nil
13.	2003-04	6.08 lakhs	6.08 lakhs	79.17
16.	2004-05	Nil	Nil	Nil
17.	2005-06	Nil	Nil	Nil
18.	2006-07	Nil	Nil	Nil
19.	2007-08	Nil	Nil	Nil
20.	2008-09	Nil	Nil	Nil
21	2009-10	Nil	Nil	Nil
22	2010-11	Nil	Nil	Nil
23	2011-12	Nil	Nil	Nil
24	2012-13	Nil	Nil	Nil
25	2013-14	Nil	Nil	Nil
26	2014-15	Nil	Nil	Nil
27	2014-15	Nil	Nil	Nil
28	2015-16	Nil	Nil	Nil
29	2016-17	Nil	Nil	Nil
30	2017-18	Nil	Nil	Nil
31	2018-19	Nil	Nil	Nil
32	2019-20	Nil	Nil	Nil
33	2020-21	0.05	0.05	100

Sl No	Year	Fund allocated for distribution of plants	Expenditure made	Average cost for each plants
1	2014-15	0.26 lakhs	0.26 lakhs	Rs.26.2/plant
2	2015-16	0.46 lakhs	0.46 lakhs	Rs.23.0/plant
3	2016-17	3.24 lakhs	3.24 lakhs	Rs.32.4/plant
4	2017-18	3.15 Lakhs	3.15 lakhs	Rs.31.5/plant
5	2018-19			
6	2019-20	3.35 Lakhs	3.35 Lakhs	Rs.33.5/plant
7	2020-21	3.07 Lakhs	3.07 Lakhs	Rs.30.7/plant

11. Inspection of plantation by fields
Experts and their comments and
Follow up action.

Yes

12. Remarks /any other information

-NA-

ANNEXURE - I

AMBIENT AIR QUALITY REPORT (APRIL' 2020 TO SEPTEMBER' 2020) DEULBERA UNDERGROUND MINE

MONITORING STATION: MANAGER'S OFFICE

DATE	PM _{2.5}	PM ₁₀	SO ₂	NOx	SPM	Remarks
16.04.2020						Monitoring was
30.04.2020						not done amidst COVID-19
15.05.2020						COVID-19
29.05.2020						
12.06.2020	35	98	11.68	17.23	155	
29.06.2020	19	96	13.87	17.62	162	
11.07.2020	21	82	11.31	16.35	183	
25.07.2020	20	55	11.12	16.75	99	Bigging - To
13.08.2020	38	107	10.57	14.17	157	
28.08.2020	28	66	7.73	20.11	107	
04.09.2020	20	57	9.30	15.43	96	
17.09.2020	24	59	9.49	22.05	93	
Avg. (μg/m ³)	25.62	77.50	10.63	17.46	131.5	

ANNEXURE - II

MINE STRATA WATER QUALITY REPORT (APRIL' 2020 TO SEPT' 2020) DEULBERA U/G MINE

1) Rani Park Submersible Pump Outlet:

DATE	pН	O & G	TSS	COD
11.04.2020		-		-
28.04.2020	7.60	-	32	48
11.05.2020	7.17	< 4.0	30	48
21.05.2020	7.66	< 4.0	28	36
11.06.2020	7.42	< 4.0	20	44
29.06.2020	7.64	< 4.0	18	36
13.07.2020	7.24	< 4.0	28	20
22.07.2020	6.53	< 4.0	58	40
14.08.2020	6.98	< 4.0	24	32
24.08.2020	7.54	< 4.0	74	64
14.09.2020	7.10	< 4.0	28	16
24.09.2020	6.98	< 4.0	36	20
Avg. (mg/L)	7.51	< 4.0	24.72	30.54

2) Pit top Mine discharge water:

DATE	pН	O & G	TSS	COD
11.04.2020		Carrier -	-	-
28.04.2020	7.67	< 4.0	20	44
11.05.2020	7.81	< 4.0	20	52
21.05.2020	7.87	< 4.0	18	48
11.06.2020	7.63	< 4.0	22	36
29.06.2020	7.64	< 4.0	18	36
13.07.2020	7.24	< 4.0	28	20
22.07.2020	7.66	< 4.0	22	16
14.08.2020	7.67	< 4.0	26	16
24.08.2020	7.36	< 4.0	32	24
14.09.2020	7.06	< 4.0	42	32
24.09.2020	7.05	< 4.0	24	12
Avg. (mg/L)	7.26	< 4.0	34.18	36.72

3/2/11/2

ANNEXURE - III

NOISE LEVEL REPORT (APRIL' 2020 TO SEPTEMBER' 2020) DEULBERA U/G MINE

NOISE LEVEL MEASUREMENT IN dB(A)

DAME	1) Manager's Office		
DATE	Day dB(A)	Night dB(A)	
11.04.2020			
28.04.2020	67.5	65.2	
09.05.2020	56.2	55.2	
29.05.2020	61.2	60.0	
12.06.2020	62.6	51.0	
22.06.2020	63.5	60.0	
13.07.2020	59.2	53.6	
22.07.2020	66.0	60.1	
07.08.2020	57.4	55.3	
25.08.2020	55.01	50.07	
04.09.2020	57.3	57.1	
17.09.2020	55.2	52.7	
Avg. (in dBA)	60.10	56.38	

ANNEXURE-IV

WELL WATER LEVEL MONITORING DATA LOCATION: DEULBERA VILLAGE WELL

Date of sampling	Name of the station	Depth from GL (in Meter) 4.30	
23.05.2020	Deulbera village well		
14.08.2020 Deulbera village well		3.00	

3 | 2111