MAHANADI COALFIELDS LIMITED

Mahanadi
Coalfields
OFFICE
Limited
A Mini Ratna Company

(A Subsidiary of Coal India Limited)

OFFICE OF THE PROJECT OFFICER (T&H)/DLB

rdia Limited)

TALCHER COLLIERY

PO: DERA, DIST:-ANGUL (O) PIN-759 103 Tel:-06760 269955, Email-potalcher@gmail.com

No.PO(T&H)/Talcher/Half-yrly/EC Compliance report/2021-22/ 18

Date: 20 /05/2021

To

The Additional Director,

REGD. POST

Ministry of Environment Forest & Climate Change,

Eastern Zonal Office,

A-3, Chandrashekharpur,

Bhubaneswar - 751 023

Sub:-Submission of Half Yearly Compliance Report of Environmental Clearance condition in respect of TALCHER U/G Mine (0.27 MTY)

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 TALCHER U/G Mine (0.27 MTY) for the period from Oct'2020 to Mar'2021.

This is for your kind information & necessary action.

Encl: As above.

Yours faithfull

20.5-2021

PROJECT OFFICER (T&H/D)

PROJECT OFFICER (T&H/D)

Copy for Kind information to:-

- 1. 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, Talcher 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

(OCTOBER-2020 TO MARCH-2021)

TALCHER U/G MINE (0.27MTY)



MAHANADI COALFIELDS LIMITED
TALCHER AREA
AT/PO: DERA, TALCHER, ODISHA
PIN-759103.

Present Status of the Project

The coal production in Talcher Colliery is temporarily suspended since dt.24.02.2018 due to access restriction as per Clause No.158 of CMR Act'2017.

COMPLIANCE OF EC CONDITIONS OF TALCHER COLLIERY

Sl. No	EC Conditions		Compliance Status						
1.	The SPM level in the ambient air	SPM, S	SO2,	NOx,	PM	10, P	M2	.5 are	e being
	should not exceed 500 µg/m at any	monitor	ed or	n forti	nightly	y basi	s a	nd mi	itigative
	observation point within the mine	measures are being taken. The average values of							
	leasehold. The emissions or SO2, NO	paramet	ers a	re give	n bel	ow w	hich	are f	ound to
	and CO should be maintained below	be withi	n the	prescr	ibed l	imits.			
	the levels prescribed by the competent				-				
	authority.	Location	Para mete rs	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m) ₂ /m³)	NO _χ (μg/m³)	SPM (µg/m³)
		GM Office	Avg.	44.0	139.	41 16	.64	28.83	242.83
		Canteen, Talcher colliery	Avg.	49.08	142.	50 16	.44	30.47	232.50
		Detailed provided					Air	Qua	lity are
2.	The quality of effluent finally	Mine of	lischa	irge v	vater	is t	ein	g tre	ated a
	discharged into the main water course	Treatme	\mathcal{E}					f effl	uent is
	_						ucht		
	shall conform to the standard		_			_			
	shall conform to the standard prescribed under notification No.0511		y mo	onitore	d. Tl	he av	era	ge va	lues o
		regularl	y mo	onitore re give	d. Tl en bel	he av	eraş	ge va	lues o
	prescribed under notification No.0511	regularly paramet	y mo ers and n the	onitore re give	d. Tl en bel	he av	eraş	ge va	lues o
	prescribed under notification No.0511	regularly paramet be within	y mo	prescr prescr rame	d. Then belowed the below	he avoice ow with inits.	reraş	ge van are f	lues o
	prescribed under notification No.0511	paramet be within Location Mine Discharg	y moers and n the Panton to the A	onitore re give prescr rame ers vg.	ed. Then belong bed belong bed belong bed belong be	he avox wimits. O&G < 4.0	reraş hich T	ge van are f	cop 34.67
3.	prescribed under notification No.0511	regularly paramet be within Location Mine Discharg water	y moers and n the Panton to the A	onitore re give prescr rame ers vg.	ed. Then belong bed belong bed belong bed belong be	he avox wimits. O&G < 4.0	reraş hich T	ge van are f	cop 34.67
3.	prescribed under notification No.0511 919(II) dated 12.09.1988.	regularly paramet be within Location Mine Discharg water	y moers and n the Panton to the A	onitore re give prescr rame ers vg.	ed. Then belong bed belong bed belong bed belong be	he avox wimits. O&G < 4.0	reraş hich T	ge van are f	cop 34.67
3.	prescribed under notification No.0511 919(II) dated 12.09.1988. The likely subsided area should be	regularly paramet be within Location Mine Discharg water	y moers and n the Panton to the A	onitore re give prescr rame ers vg.	ed. Then belong bed belong bed belong bed belong be	he avox wimits. O&G < 4.0	reraş hich T	ge van are f	cop 34.67
3.	prescribed under notification No.0511 919(II) dated 12.09.1988. The likely subsided area should be brought back to the original land use	regularly paramet be within Location Mine Discharg water Detailed Annexu	y mo ers an n the Pan to A l data	prescreame ers	ed. Then belong bed belong bed belong belong belong to the belong	he av ow w imits. O&G < 4.0 Quali	reraghich T 27	ge van are f	cop 34.67
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	regularly paramet be within Location Mine Discharg water Detailed Annexu	y mo ers an n the Pan to A data	onitore re give prescriame ers	en d. Then belong bed libed li	of sub	reraghich T 27	ge van are f	cop 34.67 vided in
3.	The likely subsided area should be brought back to the original land use pattern to the maximum extent possible the reclamation of subsided	regularly paramet be within Location Mine Discharg water Detailed Annexu	y morers and the Panton the A	onitore re give prescreame ers vg. of Efficient and us	ence ce patte	of sub	reraghich T 27	ge van are f	cop 34.67 vided in
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	regularly paramet be within Location Mine Discharg water Detailed Annexu	y morers and the Panton the A	onitore re give prescreame ers vg. of Efficient and us	ence ce patte	of sub	reraghich T 27	ge van are f	cop 34.67 vided in
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	regularly paramet be within Location Mine Discharg water Detailed Annexu	y morers and the Panton the A	onitore re give prescreame ers vg. of Efficient and us	ence ce patte	of sub	reraghich T 27	ge van are f	cop 34.67 vided in
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	regularly paramet be within Location Mine Discharg water Detailed Annexu	y morers and the Panton the A	onitore re give prescreame ers vg. of Efficient and us	ence ce patte	of sub	reraghich T 27	ge van are f	cop 34.67 vided i

	Tent.	T					
4.	The coal Handling Plant and Fan	J					
	House should be designed to minimize						
	noise and polymers including rubber						
	and polyurethane should not exceed	noise level found within the prescribed standa					
	the norms prescribed by the competent	Noise Level Measurement (dBA)					
	authority.	Location 1) GM Office 2) Canteen, Talcher Colliery					
		Day Night Day Night					
-		Avg. 60.66 56.56 60.97 57.57					
		Detailed data of Noise level are provided in					
		Annexure – III					
5.	Regular monitoring of ambient air and	Regular monitoring of air, water and noise level					
	water quality and noise levels should	are being carried out and are found within					
	be done and recorded data should be	prescribed limit. Recorded data of air, water &					
	furnished to this Department once in	noise quality are being furnished in the					
	three months.	Annexure-I, II & III respectively.					
6.	No change methodology of working						
	and the scope of working should be	There is no change in mostly delegated to					
	made without the approval of this	There is no change in methodology of working.					
	Ministry.						
7.	The green belt around associated	As per EMP, adequate plantation has been done					
	industrial complete residential colony	around associated industrial complete					
	should be provided as per the	residential colony. Thus afforestation scheme					
	Environmental Management plan. The	has been done based on mixed culture especially					
	afforestation scheme should lay	indigenous species. Details of total plantation					
	on mixed culture rather than mono-	done are as follows;					
	culture	Year of Total area No of Plants Expenditure					
		plantation covered -					
		1990-2020 42.5 Ha 1,05,568 Nos 35.05 Lakhs					
		Detailed data of plantation are provided in					
	mi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Annexure – V					
8.	The project authority should submit to	Environmental control measures report is being					
	this Ministry a quarterly in respect of	sent in terms of compliance report on Half-					
	environmental control measures.	yearly basis.					
9.	Separate Environmental management	41 141					
	cell with suitably qualified personal to	A separate environment management cell with					
	carry out various functions relating to	suitably qualified personal is established under					
	Environmental management should be	the control of Senior technical person who can					
-	set up under the control of senior	directly report to General Manager of the area.					
	technical person who will directly	Environmental monitoring works is being done					
	report to chief Executive of the area.	through CMPDIL having adequate laboratory					
	A laboratory facility should be set up	facilities as required by SPCB.					
	for collection and analysis of samples.	and the second s					

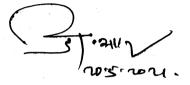
10.	The funds (Both capital and revenue) earmarked for environmental control measures should not be diverted for any other purpose.	measures a any other p	e of Engage are given being are given being bein	nvironmental protection in	d for
4.1				. SO Editio	,
11.	The Ministry may additional conditions if so necessitated either by in scope of the project or on the basis of feedback on impacts.	NA.			

2015.2011.

FORM -1 MINISTRY OF ENVIRONMENT & FOREST REGIONAL OFFICE MONITORING PROFORMA PART - I (DATA SHEET)

1	Project type: River-Valley / Mining / Industry / Thermal / Nuclear / Other (Specify)	Mining
2	Name of the Project	Talcher Colliery (UG)
3	Clearance letter(s) OM No. & dt.	J – 11015/5/91.1A-11 dated. 22.6.1992
4	Location: a) District(s), State(s)	Angul, Odisha
	b) Address of concerned project Chie. Engineer (with pin code & Telephone/Telex/Fax Nos.) c) Address of Executive Project Engineer I Inager with Pin code and Telephone/Telex/Fax Nos.)	Sri D.Sahoo, Project Officer (T&H), Talcher Colliery, Dist-Angul (Odisha), Ph: 06760-269955 (O)
5	Salient Features: a) Of the Project b) Of the Environment Manager plan	It is an underground project produced coal with help of SDL's & loco etc. EMP of 0.27 MTY as per EMP
6	Breakup of the Project Area a) Submergence area (forest & non-forest) b) Others	NA NA
7	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	NA NA
8	Financial Details: a) Project costs as originally planned and subsequent revised estimates and the years of	3869 Lakhs
	price reference. 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.	Allocation made for EMP – 31.54 lakhs a) Afforestation cost: 2.8 lakhs; b) Pollution measuring cost: 12.32 lakhs; c) Envt. Quality data gen. cost: 16.42 lakhs
	d) Whether © includes the cost of environment management as shown in (B) above.	Yes
	e) Actual expenditure incurred on the Project so far f) Actual expenditure incurred on the environment management plans	
9	Forest and requirements	
	a) A status of approval of diversion of forest and non-forestry use.b) A status of clean filling in forest and non-	Nil Nil
	forest lands c) Comments on availability and sustainability compensatory afforestation program in the light of actual fell experience so far.	Nil
	DV IMI.	1

		
10	Status of Construction.	
	a) Date of commencement (actual and/or	1926
	planned)	1928
	b) Date of completion (actual and/or planned)	
11	Reason for the delay if the project is yet to start.	NA
12	Date of site visit	
	a) The dated on which the project was	22.01.2021
	monitored by the Regional Officer on the	
	previous occasions if.	
	b) Date of site for the monitoring report.	22.01.2021
13	Details of correspondence with Project Authorities	NA
	for obtaining action plans information and	
	status of compliance to safeguards.	
1		



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 Government R&R policy	
4	Budget Estimate for rehabilitation a) Total Outlay b) Amount Paid/used	Nil
5	Employment Details Total Employment to be provided Employment given So far	Nil
6	Rehabilitation /Resettlement details a) No. of Families rehabilitated	Nil
	Name of the site Families Rehabilitated b) Families yet to be rehabilitated	
	Name of the site No. of families	
7	Any other Information	Nil

FORM-III

FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/PLANTATION UNDER FC 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. : Dera, Talcher, Dist-Angul/Odisha

District./State.

: Project Officer, Talcher Colliery,

Po-Dera, Dist - Angul, Odisha, Pin-759103

3. Address for communication

4. Existing vegetation in the area/region

: Sal, Kendu, Mango, Pattas & grass etc

b. major prevalent species of each type

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

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5. Land coverage by the project

a. Total Area under the project

: 1140 Ha.

b. Area covered for basic infrastructure

: 119.8 Ha.

(road, building/factory etc.)

6. Details about natural vegetation

a. Name and number of tree/species felled

: Nil

b. Name and number of plants species still

: Sal, Kendu, Mango, Pattas & grass etc

available in the area

: 1,01,568 Nos

c. By protecting the area will indigenous

: Nil

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 Noc.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	Ext	B/F Area	Road sides	Block	Remarks
belt	dump			plantations	
1.0 Ha	Nil	Nil	Nil	2000	Fruit bearing plants and forestry
					species were planted

0) Plantation details (Category wise & methodology used)

Year of	Species	Spacing	Height	Total	area	Propose plantation
plantation	planted		attained	covered	till	program in 2021-22
<u> </u>				Mar'21		
1990-91 to	Indigenous	2m x 2m	5 to 8 meter	42.5 Ha		500 nos
2020-21	species					

- 0) Survival % of plantation (for last five years): 80 85 % after 3 years of plantation.
- 9. Agency carrying out plantation and maintenance: Departmental
- 10. Financial Details. (Year wise and item wise)