INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/DOL/SNG/MCDR-5/BBS-12/5/01 Mine code : 380RI13014
(i) Name of the Inspecting : SQ24) DR. M K SOMANI
Officer and ID No.
(ii) Designation : Senior Mining Geologist
(iii) Accompaning mine : Sri S.K Rout .Agent/ AED(Mines)
Official with
Designation
(iv) Date of Inspection : 05/06/2013
(v) Prev.inspection date : 02/08/2011
PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	: LANJIB	ERNA (893.55	HA)
	(b)	Category	: A Mec	hanised	
	(C)	Type of Working	: Openca	st	
	(d)	Postal address			
		State	: ORISSA		
		District	: SUNDA	RGARH	
		Village	: LANJI	BERNA	
		Taluka	: RAJGA	NGPUR	
		Post office	: LANJI	BERNA	
		Pin Code	: 770023		
		FAX No.	: 06624	-220733/933	
		E-mail	: GKVER	MA@OCL.IN	
		Phone	: 0661-	2451419 , 24514	417
	(e)	Police Station	: RAJGA	NGPUR	
	(f)	First opening date	: 12/05/	1951	
2.	Addr	ess for	: VILL/P	O-LANJIBERNA	
	corr	espondance	DIST-S	UNDERGARH	
3.	(a)	Lease Number	: ORI001	6	
	(b)	Lease area	: 1002.0	1	
	(c)	Period of lease	: 20		
	(d)	Date of Expiry	: 20/08/	1998	
Λ	Mir -		. DOI OM	m p	
4.	MTUG	LAL WOLKED	: DOLOMI	IL	ASSOCIATED
			LIMEST	ONE	Malli

с.	Name and Address of	tne	
	Lessee	:	ORISSA CEMENT LIMITED AT/PO RAJGANGPUR SUNDARGARH ORISSA Phone:20133,20733 FAX :20933, 20133
	Owner	:	V P SOOD AT PO RAJGANGPUR SUNDARGARH ORISSA Phone: 06624220121 FAX : 06624220133/933
	Agent	:	P.C.MISHRA C/O ORISSA CEMENT L.TD AT/PO LANJIBERNA SUNDARGARH ORISSA Phone: 220121 FAX : 220133
	Mining Enginee	r	
	Name Qualification Appointment/ Termination da	: : te	A.K. MISHRA,Part Time M. TECH 15/07/2005
	Geologist		
	Name	:	Dr A MUKHERJEE,Full Time
	Qualification	:	M TECH GEOLOGY
	Appointment/ Termination da	: te	01/12/2005
	Manager		

	Name	:	G.K.VERMA	
	Qualification	:	AMIE	
	Appointment/	:	01/08/1996	
	Termination da	te		
6.	Date of approval of	Mini	ng :	08/02/2012
	Plan/Scheme of Minin	g		

PART - II : TECHNICAL DETAILS/COMMENTS

 Details about Average employment : Maximum number of persons employed on any day during the year

Employment category DIRECT	No.of employment	Av. yearly working days
Managerial	5	309
Supervisory	21	309
Workers	84	309
Others	9	309
Ministrial	5	309
Plant	15	309
CONTRACT		
Workers	128 Page 2 of 1	.0

2. C

Community Development Plan (in and around the mines) : Proposed action and expenditure towords socio-economic development.

Action during the year	Exp	Remarks			
	previo	ous year	current	year	
	Proposed	Incurred	Proposed	Incurred	
General Water supply	25.00	10.28	5.97		
Health	35.00	41.82	11.07		
Sub total Infrastructure	60.00	52.10	17.04		
Sub total			52.10		
Others	10.00		30.89		EDUCATION
Others	23.00		45.31		COMMUNITY DEVELO
Training	15.00	0.83	4.77		
Sports activities	2.00		2.55		
Environment management			0.88		PLANTATION
Total	110.00	17.87	136.50		

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

VIOLATION OF RULE 13(1), 23(E)(2), 45(1)(B) AND 46 IS BEING ISSUED. NO PREVIOUS VIOLATIONS ARE PENDING.

 A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 19888, if recommended.

NOT RECOMMENDED

5. Scientific Mining

Items	Proposal	Actual work done Remarks			
A. Exploration (Rule 13)					
a.Type of prospecting : and exploration i.e. pitting, drilling	56 bore holes of 4471 meterage	20 boreholes of 2075	Within surface right area to prove the deposit beyond RL 166m		
b.Total area covered :	Grid interval of 100x100	100x100			
B. Working (Rule 13)					
c.Ore to waste ratio : pit wise if possible otherwise for mine	1:1.17	1:0.75			
<pre>b.Bench : size(LxWxH)length can be defined as regular/irregular</pre>	REGULAR	REGULAR			
a.Number and size of: each pit (LxWxH)	2_6 960x500x58 1_3 1860x300x41 4_5 930x330x47	2_6 960x500x58 1_3 1860x300x41 4_5 930x330x47			
d.Total area covered : under excavation/pits	124.35 ha	124.35 ha			
C. Waste disposal (Rule	13)				
a.Location of dumps :	All inactive dumps along the southern side lease boundary. The other dumps located on the western side and on the northern side of the boundary are non active.	All inactive dumps along the southern side lease boundary. The other dumps located on the western side and on the northern side of the boundary are non active			
<pre>b.Method of dumping : whether advancing/retreat</pre>	Advancing	Advancing			
c.Total area covered : under waste dump.	51.81 ha	51.81 ha			
d.No.and size of each : waste dump with No of steps/lift/bench		AREA OF THE IS IN Ha 1 External dump no. 8N- 2.77 2 External dump no. 7N - 3.3 3 External dump No.6N			
	Page 4	4 of 10			

4 External dump No 5N -9.42 5 External dump no. 3N & 4N- 5.95 6 External dump no. 1W & 1S - 13.48 7 External dump No 2S -0.2 8 External dump No 3S -0.72 9 External dump No 4S-0.53 10 External dump no. 5S- 0.09 11 Unnamed Old Dump 1-6.95 12 Unnamed Old Dump 2-4.01 D. Production b.Year wise : 420000MT 2829234.50 MT production of last five year. D. Reserve a.Reserve position as : 103.23 Million 103.23 Million Tones as per latest MP/MS and Tones as on on 01.04.2013 at the time of 01.04.2013 inspection.

4.39

RESERVE POSITION AS ON 01/04/2013

LIMESTONE				
Category	Quantity in Tonnes	Grade		
Proved	103230000	CEMENT GRADE		
Probable				
Possible	16750000	CEMENT GRADE		
Total	119980000	CEMENT GRADE		
	PRODUCTION FO	OR THE PREVIOUS	YEAR 2012 - 2013	
Mineral		Production	Unit	
LIMESTO	ONE	2829234.5	TON	

6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low : NOT APPLICABLE grade and sub grade mineral. Efforts for improving : NOT APPLICABLE percentage of recovery of ore.

Minearl Rule 15

Percentage of recovery of ore : 100% pitwise w.r.t. ROM and total material Number of benches in ore and : Qry.No. Quarry Size (in m) Top RL Bottom RL No. of benches Bench size (in m) L B D IN ORE W H Qry-2&6 960 500 58 261 203 8 22 8.0 Qry-1&3 1860 300 41 271 230 6 20 6.60 Qry-4&5 930 330 47 265 218 7 20 7.00

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade	:	NOT	APPLICABLE
Number and size of each stack	:	NOT	APPLICABLE
Location of stacking.	:	NOT	APPLICABLE
Separate stacking from waste	:	NOT	APPLICABLE
Total area covered for stacking	:	NOT	APPLICABLE

Exploration data as on 31/03/ 2013 No. of Boreholes No. of Pits No. of Trenches 740 20 20

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overbuden/waste removed (in m3) : 2118797.68

	Utilisatio	on of Sub	Grade Miner	al and Mine	ral Rejects	
	Genei	rated	Utilise	d St	acked	(In Ton.)
Information	on reclamation	and rehal	oilitation a	s on 31/03/	2013	(Area in Hect.)
Area broken	Area matured	Area rec	claimed Nat	ire of abilitation		Area rehabilitated
124.35	8.29	8.2	29 By 1	backfilling		8.29
Page 6 of 10						

7. Environment Management - both quantitative and qualitativ

A. Land environment

	a. Landscape.	:	GOOD
	b. Aesthetic environment	:	GOOD
	c. Soil and land use pattern	:	The top soil quantity is negligible and occurring as small isolated pockets which gets mixed up with stone chips on blasting and not possible to separate it out. The soil recovered mixed with morrum or small quantity stone chips are utilized for plantation on dumps.
	d. Agriculture	:	NONE
	e. Forest(flora and fauna)	:	56.84 Ha
	f. Vegetation	:	NONE
	h. Public building, places and monuments (protected, historical), placec of worship and places of tourist	:	NONE
в	Water environment.		
	a. Surface water	:	NONE
	b. Ground water	:	NONE
	c. Quality of water	:	SW-1 Quarry 2&6, SW-2 Quarry 1&3 AND SW-3 Quarry 4&5 Discharge Water:
			The sampleS after analysis for discharge of water on land for irrigation is found to be well within the prescribed limits in both the seasons monitored.
c.	Air environment		
	a. Noise	:	<pre>The following measures have been taken. " Provisions of acoustic enclosures of noise generating equipment. " Shock absorbing pads at the foundation for vibration generation equipment. " Blasting during day time only and use of NONEL system. " Earmuffs for persons working in high noise areas. " Regular monitoring of noise levels at various points. " Green belts development.</pre>
	b. Air	:	<pre>The following measures have been taken " Deployment of Eco friendly hydraulic drill machines, " Covering of Stacker Reclaimer, " Regular water sprinkling on hopper, belt conveyor of crushing plant, " Internal roads from quarry face to crusher hopper, Page 7 of 10</pre>

workshops are metallic. Some parts of the roads are planned for concreting, " Permanent water sprinkling system has been installed along the haul roads, " Closed circuit dust collection system through pulse jet type bag filter at crushing. .on : TROPICAL

c. Climatic condition : 1

D. Socio economic environment

- d. Recreational facility. : AVAILABLE AT THE COLONY
- 7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

		Wat	er Managem	ent			Va	lue
Season	Station type	Station name		Param	eter	Ā	ctual	Excess
		Air data fo	or excess p	parameters				_
							V	alue
Season	Station na	ame	Type of	area	Par	ameter	Actua	l Excess
	PLANTATION	DURING THE PREV	IOUS YEAR	2012 - 2	2013			
						A	rea in	Hect.
	Within lease a	irea		Outside	e lease	area		
Area	Trees planted	Survival rate	Area	Trees pl	anted	Surv	ival ra	ate
2.1	8050	70		0				
ι								

TOP SOIL MANAGEMENT Quantity as on 31/03/2013

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

(1)	Cost of operation	Rs 345.71
(2)	Reserve	103.23 Million Tones as on 01.04.2013
(3)	Production	2829234.50 MT

(4) Pit's Mouth Value Rs 345.71 (5) Stock 10723.66 MT **PART - III : PERFORMANCE OF MINE OWNER** (In case of lease expiring within 2 years - as per guidelines)

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

NONE

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

NONE

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

NONE

Date :

(DR. M K SOMANI)

Indian Bureau of Mines