

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/DOL/SNG/MCDR-3/BBS

Mine code : 38ORI13005

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri P K Kunar, Manager, Shri K K Sarda, Power of Att
Official with
Designation
- (iv) Date of Inspection : 18/10/2017
- (v) Prev.inspection date : 19/05/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DHARURA KUKUDA**
- (b) **Registration NO.** : **IBM /5466 / 2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : DHARURA
- Taluka : RAJGANGPUR
- Post office : LANJIBERNA
- Pin Code : 770023
- FAX No. : 220609
- E-mail : jdlmines@gmail.com
- Phone : 06624 - 220609
- (f) Police Station : Rajgangpur
- (g) First opening date : 02/12/1975
- (h) Weekly day of rest : SUN
2. Address for : VILL-DHARURA KUKUDA
correspondance PO-LANJIBERNA
DIST-SUNDERGARH
3. (a) Lease Number : ORI0020
- (b) Lease area : 573.05
- (c) Period of lease : 20
- (d) Date of Expiry : 20/02/1994
4. Mineral worked : LIMESTONE Main
DOLOMITE Associated

5. Name and Address of the

Lessee : R.A.JALAN
 R.A.JALAN,JDL MINE
 RAJGANGPUR,SUNDARGARH
 ORISSA SUNDARGARH ORISSA
 Phone:
 FAX :

Owner : R.A.JALAN
 AT/PO.RAIRANGPUR
 SUNDARGARH,ORISSA
 SUNDARGARH ORISSA
 Phone: 06624-220609
 FAX : 220609

Agent : K.K.SARADA
 C/O.R.A.JALAN.JDL MINE
 RAIRANGPUR,ORISSA
 SUNDARGARH ORISSA
 Phone: 06624-220609
 FAX : 06624-220609

Geologist

Name : SHRI GURPINDAR SING JAISWAL,Part Time
 Qualification : M.Sc.,Ph.D(Geo)
 Appointment/ : 24/03/2004
 Termination date

Manager

Name : SHRI P K KUMAR
 Qualification : Diploma (Mining)
 Appointment/ : 25/10/2016
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	26/09/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15/02/2010
		Renewal under rule 24 MCR1960	25/08/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal, however 8 boreholes proposed during the year 2016-17.	10 boreholes were drilled during the year 2016-17.	boreholes were drilled more than the proposal.
1b	Exploration over lease area for geological axis 1 or 2	No such specific proposal in the Review of Mining plan.	10 boreholes drilled during the year 2016-17.	Nil.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s SPS Geo mininig slolutions.	Rs 403384.	Nil.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such Specific proposal in the mining plan.	32.42 ha needs to be explored for G1/G2 level.	Nil.
1e	Balance reserve as on 01/04/20	as per the approved document on 25.08.2014 the limestone reseerves are 0.136 million tonnes resources are 0.884 mi. tonnes and Dolomite reserves are 0.338 mi.tonnes and resources of 1.113 mil.tonnes	after the addition and depletion over period of time the reserves of limestone are 0.119 million tonnes and resources are 0.884 mil.tonnes., dolomite reserves are 0.282 mil.tonnes and resources are 1.113 mil.tonnes as on 01.04.2017	total reserves and resources of limestone are 1.003 mil.tonnes and dolomite are 1.395 mil.tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	area needs to be explored further.	proposal given in review period for exploration.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	one quarry is proposed in southernside of the lease area.	one quarry is developed in southernside of the lease area.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation proposed. seperate benches in OB and mineral of 1.5 m height are proposed.	No top soil is generated. seperate becnhes in OB and mineral of 1.5 m height are maintained.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0.13 t/cu.m.	1:0.11 t/cu.m.	Nil.
2d	Quantity of topsoil generation in m3	No top soil generation proposed.	Nil	Nil.
2e	Quantity of overburden generation in m3	5866 cu.m.	4950 cu.m.	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments to offer.	development is carried out in one quarry.	Nil.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one quarry is proposed for production.	production is carried out from one quarry.	Nil.
3b	Quantity of ROM mineral production proposed	Limestone: 11500 tonnes Dolomite: 38200 tonnes	Limestone: 10450 tonnes Dolomite: 32820 tonnes	Nil.
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	Nil.
3d	Quantity of mineral reject generation	No proposal	Nil.	Nil.

3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil.	Nil.
3f	Quantity of sub grade mineral generation.	Limestone: 266 tonnes Dolomite: 884 tonnes	Limestone: 878 tonnes Dolomite: 2044 tonnes	Nil.
3g	Grade of sub grade mineral generation	Limestone: +35-37% Cao Dolomite: +10-17% Mgo	Limestone: +35-37% Cao Dolomite: +10-17% Mgo	Nil.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical	Nil.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Nil	Nil.
3j	Provision of drilling and blasting in mineral benches	Shot hole drilling and blasting is proposed.	Shot hole drilling and blasting is proposed.	Nil.
3k	Provision of mining machineries in mineral benches	Manual	Manual	Nil.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height of benches in OB and mineral proposed are 1.5 m.	height of benches in OB and mineral maintained are 1.5 m.	Nil.
3m	Total area covered under excavation/pits	Area covered under pits is 2.61 Ha till the review of mining pla period i.e. 2017-18	Area covered under pits is 2.34 ha for the year 2016-17 as reported by lessee.	Nil.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.13 t/cu.m.	1:0.11 t/cu.m.	
3o	Total area put in use under different heads at the end of year	Total area put for utilisation is 7.19 ha till the period of review of mining plan i.e. 2017-18, under differnt heads is pits: 2.61 ha, dumps: 2.26 ha, infr&roads: 0.29 ha, Others: 2.03 ha	Total area: 6.65 ha, pits: 2.34 ha, dumps: 2.1 ha, infr&roads: 0.46 ha, Others: 1.75 ha as reported by lessee.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	Limestone: 2012-13: 11518 t 2013-14: 2160 t 2014-15: 11501 t 2015-16: 11500 t 2016-17: 11500 t Dolomite: 2012-13: 38187 t 2013-14: 3857 t 2014-15: 38198 t 2015-16: 38200 t 2016-17: 382001 t	Limestone: 2012-13: Nil 2013-14: Nil 2014-15: Nil 2015-16: 4941 t 2016-17: 10450 t Dolomite: 2012-13: Nil 2013-14: Nil 2014-15: Nil 2016-17: 17125 t 2017: 32820 t	variation is due to want of EC.

3q General remarks of inspecting officers on method of mining etc. No comments to offer. production is carried out from single quarry. Nil.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil generation proposed. seperate dumps for OB and mineral rejects proposed.	No top soil is generated. seperate dumps for OB and mineral rejects maintained.	Nil.
4b	Location of topsoil, OB and mineral reject dumps	OB dump and mineral reject dump in the east side of the quarry.	OB dump and mineral reject dump maintained in the east side of the quarry.	Nil.
4c	Number of dumps within lease area and outside of lease area	two waste dumps within lease area.	two waste dumps are maintained within lease area in which one is old waste dump.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL.	Outside of UPL.	Nil.
4e	Number of active and alive dumps.	One waste dump.	One waste dump.	Nil.
4f	Number of dead dumps.	No proposal.	One old waste dump exists in wetsern side of the lease area.	Nil.
4g	Number of dumps established.	proposal of planation of 380nos.	carried out.	Nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	provided.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	190 m length retainingwall.	190 m length retainingwall.	Nil.

4j	Number of settling ponds	No proposal.	Nil	Nil.
4k	Specific comments of inspecting officer on waste dump management	No comments to offer.	protective measures around waste dump are provided.	Nil.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal.	Nil.	Mineral not exhausted.
5b	Area under backfilling of mined out area	No proposal.	Nil.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Nil	Nil.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area not matured for reclamation.	Area not matured for reclamation.	Nil.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted	Submitted	Submitted in stipulated time period.

6b	Area available for rehabilitation (ha) .	0.14 ha on waste dumps by planation.	0.14 ha on waste dumps by planation carried out.	Nil.
6c	afforestation done (ha).	0.475 ha	0.19 ha	Nil.
6d	No. of saplings planted during the year	1187 nos	400 nos	less plantation carried out.
6e	Cumulative no .of plants	4750	1000	Nil.
6f	Any other method of rehabilitation	No proposal.	Nil	Nil.
6g	Cost incurred on watch and care during the year	No proposal.	Nil	Nil.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	Nil.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	807 nos	20 nos	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.335 ha	0.05 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	As per proposal.
6p	Compliance of environmental monitoring (core zone and buffer zone)	quarterly environment monitoring proposed.	carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	plantation needs to be improved.	plantation needs to be improved.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes proposed.	Carried out.	Nil.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	Nil.
7c	Different grade of mineral sorted out at mines.	Limestone: +35-37% Cao Dolomite: +10-17% Cao	Limestone: +35-37% Cao Dolomite: +10-17% Cao	Nil.
7d	Any beneficiation process at mines .	No proposal.	Nil	only dry screening carried out.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer.	dry crushing and screening carried out.	Nil.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposed.	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	maintained.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No such information or proposal in the approved document.	400 nos plantation carried out during the year 2016-17.	Nil.
8g	Survival rate	No proposal.	Not reported by lessee	nil.
8h	Water sprinkling on roads to control airborne dust	proposed.	carried out.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to offer.	survival rate needs to be assessed.	Nil.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not submitted	Not submitted.	Violation given letter no:ORI/DOLO/SNG/MC DR-3/BBS/ dated 30/10/2017.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	30/10/2017			
MCDR17	Rule 45(5)(k)	30/10/2017			
MCDR17	Rule 45(5)(c)	30/10/2017			
MCDR17	Rule 55(1)(3)	30/10/2017			

Date :

(RAMKISHAN R)

Indian Bureau of Mines