

**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 : **K013**) **KEWAL KRISHAN**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Sri Suvrajit Dash, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 25/06/2021
- (v) Prev.inspection date : 18/10/2017

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
	:	MP modif under 17(3) MCR 2016	06/02/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 nos of boreholes were proposed during the year 2019-20	drillied 10nos of boreholes but they are not as per the proposal	issued violation under rule 11(1) of MCDR 2017
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 2018-19.	nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s SPS Geo mininig sloutions.	M/s SPS Geo mininig sloutions.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such Specific proposal in the mining plan.	about 35.00 ha of area is need to be explored under G1/G2 category	
1e	Balance reserve as on 01/04/20	as per approved document dt 6.2.2018 the limestone reserves are 0.040 million tonnes and Dolomite reserves are 1.898 mi.tonnes and resources of 0.553million tonnes	Lime stone reserves are 0.039 million tonnes and dolomite reserves are 1.795458 million Tonnes and resources are 0.553 million tonnes as on 1/4/2021	as per approved document on 6.2.2018 the limestone reserves are 0.040 million tonnes and Dolomite reserves are 1.898 mi.tonnes and resources of 0.553 mil.tonnes

1f	General remarks of inspecting officers on geology, exploration etc	The M.L. area is mostly covered by soil and alluvium with some exposures of dolomite belonging to the Gangpur group of Archean age. In quarry, the rock types exposed are limestone and Dolomite . The area needs to be explored further.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	450E TO 550E & 25N TO 50N	450E to 550E & 25N to 50N	one quarry is developed in the lease area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation proposed. seperate becnhes in OB and mineral are proposed.	No top soil generation proposed. seperate becnhes in OB and mineral are proposed.	nil
2c	Stripping ratio or ore to OB ratio	1:0.12 t/cu.m.	1:0.15	
2d	Quantity of topsoil generation in m3	No top soil generation proposed.	No top soil generation proposed.	
2e	Quantity of overburden generation in m3	14358.55	5920	issued violation under rule 11(1) of MCDR 2017
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			development is carried out in one quarry with opencast mining methods.

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.	
3b	Quantity of ROM mineral production proposed	Limestone 15604 T Dolomite 100000 T	Limestone 970T Dolomite 36550T	issued violation under rule 11(1) of MCDR 2017
3c	Recovery of sailable/usable mineral from ROM production	Lime stone 70% dolomite 85%	Limestone 970T Dolomite 36550T	
3d	Quantity of mineral reject generation	14633.43 MT	nil	No mineral reject generated during the year. The mineral reject shown by the leesse is actual the waste material.based on the analysis carried out by the party.
3e	Grade of mineral rejects generation and threshold value declared.	+35 to -38 Cao +15 to - 17 Mgo	+35 to -38 Cao +15 to - 17 Mgo	The said document has been approved before the revised threshold values of minierals.Party has been advised to consider the revised threshold limit of mineral as notified on 25th april 2018.
3f	Quantity of sub grade mineral generation.	14633.43 MT (1st &Dolomite)	nil	No mineral reject/sub grade generated during the year. The mineral reject/subgrade shown by the leesse is actual the waste material.(based on the analysis carried out by the party.)

3g	Grade of sub grade mineral generation	+35 to -38 Cao +15 to - 17 Mgo	+35 to -38 Cao +15 to - 17 Mgo	the proposal has been given based on the earlier document approved on Feb 2018. however lessee has been advised to consider the grade of subgrade/reject as per the revised threshold value of mineral as notified on 25th april 2018
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no such proposal	no such proposal	
3j	Provision of drilling and blasting in mineral benches	Shot hole drilling and blasting is proposed	Shot hole drilling and blasting is proposed	
3k	Provision of mining machineries in mineral benches	Excavator and dumper etc	Excavator and dumper combination is deployed as proposed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height at 6m and width 10m	maintained as proposed	
3m	Total area covered under excavation/pits	total area under pits 2.840 ha as per the review of mining plan period i.e. 2018-19 to2022-23	Area covered under pits is 2.692 ha as reported by lessee.	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	1:0.15	
3o	Total area put in use under different heads at the end of year	Total area put for utilisation till the plan period of review of mining plan i.e. 2018-19 to 2022-23, under differnt heads is pits: 2.820 ha, dumps: 5.02ha infr&roads: 2.313 ha, Others: 2.459ha ha	area under pit: 2.692 ha, dumps: 4.639 ha, infr&roads: 2.313 ha, Others: 1.66 ha as reported by lessee.	
3p	Production of ROM mineral during the last five year period as applicable	Lst dol	dol	Lst
		2016-17	2016-17	2016-17
		11500	38200	10430
		2017-18	2017-18	1900
		11501	38201	36430
		2018-19	2018-19	0
		38199	0	0
		2019-20	2019-20	0
		79168	31723	0
		2020-21	2020-21	970
		15606	29790	36550
		100000	0	

3q	General remarks of inspecting officers on method of mining etc.	In the lease hold area there is only single quarry . Mining operation are carried out by open cast method .
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 generation proposed. seperate dumps for OB and mineral rejects are being maintained.	
4b	Location of topsoil, OB and mineral reject dumps	OB dump and mineral reject dump in the east and west side of the quarry.	OB dump and mineral reject dump in the east and west side of the quarry.	
4c	Number of dumps within lease area and outside of lease area	two waste dumps within lease area.	two waste dumps within lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL.	Outside UPL.	
4e	Number of active and alive dumps.	two nos of waste dumps are proposed	one no of waste dump.	
4f	Number of dead dumps.	no such proposal	no such proposal	
4g	Number of dumps established.	proposal of planation of 350nos.	proposal of planation of 380nos.	
4h	Whether Retaining wall or garland drain all along dumps are there.	retainingwall & garland drain are proposed	retainingwall & garland drain .	
4i	Length of Retaining wall or garland drain all along dumps	retaining wall 80m and garland drain 134m	carriedout as per the proposal	
4j	Number of settling ponds	one no of settling pond is proposed	carriedout as per the proposal	
4k	Specific comments of inspecting officer on waste dump management			protective measures around waste dump are being carried out as per the proposal.

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 such proposal	no such proposal	
5b	Area under backfilling of mined out area	no such proposal	no such proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	no such proposal	no such proposal	
5d	Total area fully reclaimed and rehabilitated	no such proposal	no such proposal	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			as the mineral has not been exahausted and no area has been proposed for backfilling and reclamation .

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	
6b	Area available for rehabilitation (ha) .	no such proposal	no such proposal	

6c	afforestation done (ha).	plantation proposed on the foot of dump in 0.06 ha area	carried out as per the proposal
6d	No. of saplings planted during the year	100 nos of plants on the foot of proposed dump	carried out as proposed
6e	Cumulative no .of plants	4320 nos	around 4320 nos
6f	Any other method of rehabilitation	no such proposal	no such proposal
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	no such proposal	no such proposal
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	no such proposal	no such proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	no such proposal	no such proposal
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	no such proposal	no such proposal

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	no such proposal	no such proposal	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	no such proposal	no such proposal	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	no such proposal	no such proposal	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	no such proposal	no such proposal	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environment monitoring is proposed	carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee has not given proposal in the document on PMCP. How ever lessee has been advised to do the more planation on the waste land.

Mineral Conservation:

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

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.	Limestone: +35-38% Cao Dolomite: +15-17% Mgo	carried out	lessee has been advised to sort the grade as per the revised threshold value of mineral as notified on 25th april 2018
7d	Any beneficiation process at mines .	crushing and screening	carried out	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Crushing and screening for production of sized material through use of roller crusher is being done by the lessee

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposed	no such proposal	
8b	Concurrent use or storage of topsoil	No such proposal	No such proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumps for overbuden, waste rock and rejects	seperate dumps for overbuden, waste rock and rejects	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no such proposal	no such proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no such proposal	no such proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No such information or proposal in the approved document	350 nos plantation carried out during the year 2020-21.	
8g	Survival rate	no such proposal	40%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on roads to control air borne dust	carriedout	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around the mining area is good because of sprinkling of water to control the dust and plantation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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- 9a Status of submission of Monthly and Annual returns as per MCDR 2017, the monthly return are to be submitted before 10th day of every month in respect of the preceding month and AR shall be submitted before the 1st day of July each year for the preceding financial year submitted In the monthly return submitted for the month of May 2021 ,the examine price in case of 1st ore is not furnished correctly. issued violation under rule 45(7) of MCDR 2017.
- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before 1st july of 2021. The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.
- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before 1st july of 2021. The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.

- 9d Scrutiny of Annual return on afforestation The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before Ist july of 2021. The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity) The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before Ist july of 2021. The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.
- 9f Scrutiny of Annual return on ROM stock and/or graded ore The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before Ist july of 2021. The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.
- 9g Scrutiny of Annual return on sale value, Ex. Mine price and production cost The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before Ist july of 2021. The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.

9h	Scrutiny of Annual return on fixed assets	The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before Ist july of 2021.	The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.
9k	Scrutiny of Annual return on mining machineries	The annual return for the year 2020-21 was not due for submission as on date of inspection, which has to be submitted on or before Ist july of 2021.	The scrutiny of annual return for the year 2020-21 during the inspection doesnot arise.

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

Violation observed				Show couse position	
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)	20/07/2021	12/10/2021		
MCDR17	Rule 45(7)(a)	20/07/2021	12/10/2021		

Date :

(KEWAL KRISHAN)

Indian Bureau of Mines