

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/LST/KPT/MCDR-1/BBS

Mine code : 38ORI09006

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Himachal Acharya, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 18/11/2018
- (v) Prev.inspection date : 14/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMPAVALLI**
- (b) **Registration NO.** : **IBM/4421/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KORAPUT
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 06853-251375
E-mail : idcmining@yahoo.co.in
Phone : 09849982184
- (f) Police Station : Sunki
- (g) First opening date : 16/08/1993
- (h) Weekly day of rest : SUN
2. Address for : AT/PO: AMPAVALLI
correspondance DIST:KORAPUT, ORISSA
764 039
3. (a) Lease Number : ORI0216
(b) Lease area : 285.43
(c) Period of lease : 50
(d) Date of Expiry : 15/08/2043
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : IDCOL CEMENT LTD
 CEMENT NAGAR POST BARDOL
 BARGARH ORISSA
 Phone:06646- 30091,92,93,94
 FAX :06646- 30430

Owner : M/s IDCOL
 IDCOLPost Box No. 78,
 IDCOL House Ashok Nagar,
 Bhubaneswar- 751 001
 KORAPUT ORISSA
 Phone: 09849982184
 FAX : 06853-251 375

Agent : N SHRINIVAS RAO
 KORAPUT ORISSA
 Phone:
 FAX :

Mining Engineer

Name : HIMACHAL ACHARYA,Full Time
 Qualification : B TECH MINING
 Appointment/ : 24/11/2018
 Termination date

Geologist

Name : GAMBELI DINESH,Full Time
 Qualification :
 Appointment/ : 22/06/2018
 Termination date

Manager

Name : SHRI HIMACHAL ACHARYA
 Qualification : B.Tech (Mining)
 Appointment/ : 06/04/2017
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06/10/2006
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	07/06/2010
	:	Renewal under rule 24 MCR1960	24/01/2014
	:	MP modif under 17(3) MCR 2016	15/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	19 nos of boreholes were proposed during the year 2017-18.	Nil	Mine were suspended for non compliance of rule 11(1) for carrying out exploration from 27.07.2018.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	96.5 ha explored under G1 level. boreholes were proposed for the rest of the area during the plan period from 2018-19 to 2022-23 to brought area under G1/G2 level..	96.5 ha explored under G1 level. boreholes were proposed for the rest of the area during the plan period from 2018-19 to 2022-23 to brought area under G1/G2 level.	4 nos of boreholes were drilled during the year 2018-19 till the date of inspection.
1e	Balance reserve as on 01/04/20	As per the approved document on 15.11.2017 the limestone reserves are 66.801 million tonnes and resources are 11.129 million tonnes.	due to depletion of reservers the limestone reserves as on 01.04.2018 are 66.691 million tonnes and resources are 11.129 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer.	4 nos of boreholes were drilled during the year 2018-19 as a aprt of exploration till the date of inspection.	Nil

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	two quarries are proposed for development called quarry-2 and 3. grid location not specified.	development carried out in two called quarry-2 and 3.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	top soil generation is proposed. seperate benches in OB and mineral are proposed.	seperate benches in OB and mineral are mainatined. no top soil is generated.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.06 t/cu.m.	1:0.04 t/cu.m.	Nil
2d	Quantity of topsoil generation in m3	2200 cu.m.	Nil	due to less developement.
2e	Quantity of overburden generation in m3	27240 cu.m.	5000 cu.m.	less overburden generated to due to less developemnt.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments to offer.	developement is carried out as proposed in the quarry-2&3.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two quarries called quarry-2&3	production is carried out from two quarries called quarry-2&3	Nil
3b	Quantity of ROM mineral production proposed	437589 tonnes during the year 2017-18.	116130 tonnes	the production is less due to requirement of cement plant.

3c	Recovery of sailable/usable mineral from ROM production	usable limestone 350,071 tonnes subgrade limestone 65,638 tonnes	usable limestone 115130 tonnes subgrade limestone 1000 tonnes.	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	65,638 tonnes	1000 tonnes	due to less production
3g	Grade of sub grade mineral generation	+35%-42% Cao	+35%-42% Cao	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mehchanised.	Mechanised.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	drilling by drill hole dia of 100 mm and blasting by emusion explosives with delay detonation.	drilling by drill hole dia of 100 mm and blasting by emusion explosives with delay detonation.	Nil
3k	Provision of mining machineries in mineral benches	shovel and dumper combination.	shovel and dumper combination.	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5 m bench height of each in OB and mineral are proposed.	5 m bench height of each in OB and mineral are maintained.	Nil
3m	Total area covered under excavation/pits	13.167 ha till the end of plan period.	12.49 ha till 2017-18.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06 t/cu.m.	1:0.04 t/cu.m.	Nil
3o	Total area put in use under different heads at the end of year	pits: 13.167 ha, dumps: 2.061 ha,infra & Roads: 2.609 ha,others: 16.503 ha till the end of plan period.	pits: 12.49 ha, dumps: 1.461 ha,infra & Roads: 2.609 ha,others: 0.891 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 312539 tonnes, 2014-15: 437589 tonnes, 2015-16: 434546 tonnes, 2016-17: 437567 tonnes, 2017-18: 437589 tonnes	2013-14: Nil, 2014-15: 43.72 tonnes, 2015-16: 251380 tonnes, 2016-17: 136650 tonnes, 2017-18: 116130 tonnes.	Nil
3q	General remarks of inspecting officers on method of mining etc.	Nil	production is carried out from two quarries as proposed.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	separate dumping of top soil, OB and mineral rejects are proposed.	separate dumping of OB and mineral rejects are carried out. no top soil is generated.	Nil

4b	Location of topsoil, OB and mineral reject dumps	waste dump and mineral reject dump is proposed in the southernside of the lease area.	one waste dump and mineral reject dump is maintained in the southernside of the lease area.	Nil
4c	Number of dumps within lease area and outside of lease area	with in lease area 1 waste dump.	with in lease area 1 waste dump.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Oustdie UPL.	Oustdie UPL.	Nil
4e	Number of active and alive dumps.	one waste dump.	one waste dump.	Nil
4f	Number of dead dumps.	No proposal.	Nil	Nil
4g	Number of dumps established.	No proposal.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	350 m length retaining wall provided.	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 are adequate around waste dump.	Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal.	Nil	Nil
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	Area not matured for reclamation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments to offer.	Area not matured for reclamation.	Nil

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted	Submitted	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Nil	Nil
6c	afforestation done (ha).	0.5 ha	0.5 ha	Nil
6d	No. of saplings planted during the year	800 nos.	400 nos	Nil
6e	Cumulative no .of plants	1600 nos	5200 nos	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 (L x B x D			
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.5 ha	0.5 ha	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.5 ha	0.5 ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	periodical monitoring of air, water noise quality monitoring.	carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comment to offer.	plantation needs to be improved.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	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.	+35-42% Cao +42%Cao (cement)	+35-42% Cao +42%Cao (cement)	Nil
7d	Any beneficiation process at mines	No proposal.	Nil	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer.	entire ROM is utilised in near by cement plant.	Nil
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed.	No top soil is generated.	Nil
8b	Concurrent use or storage of topsoil	storage of top soil proposed.	no top soil is generated.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumps for OB and mineral reject are proposed.	seperate dumps for OB and mineral reject are maintained.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	800 nos proposed.	400 nos	Nil

8g	Survival rate	Not proposed.	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	water sprinkling is proposed for dust suppression.	water sprinkling is carried out to reduce air borne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to offer	Aesthetic beauty is maintained.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted.	submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining engineer: 3, Diploma Mining Engineer: 1 Geologist: 0	Graduate Mining engineer: 3, Diploma Mining Engineer: 1 Geologist: 0	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	pits: 12.49 ha, dumps: 1.461 ha,infra & Roads: 2.609 ha,others: 0.891 ha	pits: 12.49 ha, dumps: 1.461 ha,infra & Roads: 2.609 ha,others: 0.891 ha	Nil
9d	Scrutiny of Annual return on afforestation	Nil	400 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1000 tonnes	1000 tonnes	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Cement grade closing stock : 21891.680 tonnes	ROM closing stock: Nil Cement grade closing stock : 21891.680 tonnes	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost Rs 300	production cost Rs 300	Nil
9h	Scrutiny of Annual return on fixed assets	Rs 10000	Rs 10000	Nil
9k	Scrutiny of Annual return on mining machineries	excavator: 1.2 cu.m. 3 nos, tipper: 25 tonnes 3 nos. drill amchine: 1 no.	excavator: 1.2 cu.m. 3 nos, tipper: 25 tonnes 3 nos. drill amchine: 1 no.	Nil

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

Date :

(RAMKISHAN R)

Indian Bureau of Mines