

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/SRH-26/LST-5

Mine code : 38RAJ24005

- (i) Name of the Inspecting : **P019**) **Parkash Chetan**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : R Singh Mertia(Dy Manager(mines) and Mining engineer)
Official with
Designation
- (iv) Date of Inspection : 18-OCT-16
- (v) Prev.inspection date : 04-FEB-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THANDIBERI [256.00 HA]**
- (b) **Registration NO.** : **IBM/5630**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : RAJASTHAN
District : SIROHI
Village : THANDIBERI & SABELA
Taluka : PINDWARA
Post office : BINANIGRAM
Pin Code : 307025
FAX No. : 02971-220700, 220704,222070
E-mail : bgrintak_jpl@sancharnet.in
Phone : 02971-222705- 09
- (f) Police Station :
- (g) First opening date : 15-FEB-97
- (h) Weekly day of rest : SUN
2. Address for : BINANI CEMENT LTD., BINANIGRAM- 307025
correspondance PINDWARA, DIST- SIROHI
3. (a) Lease Number : RAJ1670
- (b) Lease area : 256
- (c) Period of lease : 20
- (d) Date of Expiry : 26-JUN-16
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : BINANI CEMENT LTD
 BINANI CEMENT LTD,
 BINANIGRAM, PINDWARA SIROHI
 RAJASTHAN
 Phone:02971-20705- 09
 FAX :02971-20700

Owner : P.Acharya (President)
 Binani Cement Ltd., Bnani
 Gram Pindwara, dist :
 Sirohi, Rajasthan SIROHI
 RAJASTHAN
 Phone: 02971-225005
 FAX : 02971-225019

Agent : Sh Darshan Lal
 Binani Cement Ltd Binani
 Gram,Pindwara Sirohi,
 Rajasthan SIROHI RAJASTHAN
 Phone: 02971-225005
 FAX : 02971-225019

Mining Engineer

Name : Rajendra Singh Meharia,Full Time
 Qualification : BE(MINING)
 Appointment/ : 13-APR-15
 Termination date

Geologist

Name : SANDEEP TANEJA,Full Time
 Qualification : MSC TECH (APPLIED GEO)
 Appointment/ : 15-JAN-97
 Termination date

Manager

Name : Rajendra Singh Mertia
 Qualification : BE(Mining)
 Appointment/ : 13-APR-15
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	10-AUG-98
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25-SEP-02
	:	Modif.approved Mining Scheme	10-APR-03
	:	Modif.approved Mining Scheme	16-JAN-04
	:	Mining Scheme rule 12 MCDR1988	17-AUG-05
	:	Mining Scheme rule 12 MCDR1988	14-SEP-12
	:	MP modif under MCR 1960	06-MAY-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	Cumulative 38 Holes and 3194.13 m	Cumulative 57 Holes, 5795.08 M	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal during the year 2015-16	Total surface area (178.74Ha) is almost explored. Only 34.40 Ha mineralized area, which is not feasible at present is remaining.	Nil
1e	Balance reserve as on 01/04/20	As on 1/4/2016 - =154.215 Million Tones	As on 1/4/2016 -=154.74 Million Tones	Nil
1f	General remarks of inspecting officers on geology, exploration etc		Almost mineralised are is explored .	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between E312192 to E312290 N2745343 to N2745533	Observed between E312183 to E312235 N2745453 to N2745513	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate benches proposed in top soil and OB	As per proposal.	There is no top soil and OB in the pit area. However five benches in Mineral has been developed.
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.06	Due to less interburden during the year 2015-16
2d	Quantity of topsoil generation in m3	No proposal during 2015-16	Nil	Rarely found topsoil to be used directly for plantation.

2e	Quantity of overburden generation in m3	75,176.00 m3	32,487.20 m3	Due to less interburden during the year 2015-16
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	Five regular benches have been developed and systematic work is observed.	Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	10,65,000 MT	5,37,669 MT	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal of Rejects.	Not applicable.	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	34-40% CaO is subgrade, but it is also used as part of ROM, hence practically there is no subgrade generated.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	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	Drill machine of hole dia 115 mm, Blasting with ANFO /Emulking explosives using Nonels	As per Proposal	Nil
3k	Provision of mining machineries in mineral benches	Drill machine, Backhoe, Hyd. Excavators, Tippers, Dozer, Water Tanker	As per proposal.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil.
3m	Total area covered under excavation/pits	4.61 Ha	1.47 Ha	Due to low production
3n	Ore to OB ratio for the pit/mine during the year.	1:0.07	1:0.06	Nil
3o	Total area put in use under different heads at the end of year	Pits 4.61 Ha Roads, Plants, Buildings 0.00 Ha Waste Disposal 1.31 Ha Reclaimed / Rehabilitated 0.19 Ha Others(Plantation) 0.50 Ha	Pits 1.47 Ha Roads, Plants, Buildings 0.00 Ha Waste Disposal 0.18 Ha Reclaimed / Rehabilitated 0.19 Ha Others(Plantation) 0.50 Ha	As on 01.04.2016 , the cummulative land use are Pits 23.27 Ha Roads, Plants, Buildings 0.40 Ha Waste Disposal 0.18 Ha Reclaimed / Rehabilitated 0.19 Ha Others(Plantation) 8.88 Ha

3p	Production of ROM mineral during the last five year period as applicable	2011-12: 10,65,000 MT 2012-13: 10,65,000 MT 2013-14: 10,65,000 MT 2014-15: 10,65,000 MT 2015-16: 10,65,000 MT	2011-12: 6,98,373.00 MT 2012-13: 6,86,901.00 MT 2013-14: 6,24,659.00 MT 2014-15: 5,46,950.00 MT 2015-16: 5,37,669.00MT	Nil
3q	General remarks of inspecting officers on method of mining etc.	---	Mining method is appropriate.	Satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for dumping of topsoil. Proposed seperate dump of OB, No Mineral reject.	As per proposal, Top soil generated is being used directly in plantation OB dumped in seperate dump. No mineral reject reported.	Nil
4b	Location of topsoil, OB and mineral reject dumps	During the year 2015-16 the Dumping proposed towards Eastern side of working area at E312192 to E312290 N2745343 to N2745533	As per proposal.	Nil
4c	Number of dumps within lease area and outside of lease area	Presently one dump with in lease area. previously one dump proposed out side lease are jointly for Amlı and Thandiberi Lst of the same Owner.	As per proposal, during the time of inspection it is observed that the OB is dumping with in lease area.	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dump outside ML (common for Amli & Thandiberi mines) & Inside dump is adjoining to UPL towards eastern side	As per proposal.	Nil
4e	Number of active and alive dumps.	One waste dump within ML	As per proposal.	Nil
4f	Number of dead dumps.	One waste dump outside ML	As per proposal.	Nil
4g	Number of dumps established.	Nil	As per proposal.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable.	Nil
4j	Number of settling ponds	Not proposed.	Nil	Nil.
4k	Specific comments of inspecting officer on waste dump management	Presently ob dumping is proposed with in lease area near UPL.	As per proposal.	Satisfactory. as it is observed during the time of inspection that now dumping is with in the lease area .

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.	Not Proposed	Nil	Nil, as no area is mature for backfilling.
5b	Area under backfilling of mined out area	Not Proposed	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal for backfilling.	Nil	No comments as there is no proposal of backfilling.

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).	proposed.	Yes submitted	Nil
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	Nil
6c	afforestation done (ha).	0.19	0.19	Nil
6d	No. of saplings planted during the year	750	650 within Ml and 150 out side ML total 800 sapling planted	Nil
6e	Cumulative no .of plants	3750 during this plan period.	So far 22553 sapling have been planted with in ML covering 8.88hact area	Nil
6f	Any other method of rehabilitation	Not proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Not proposed.	Rs. 15000 during 2015-16	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed as area not available for backfilling.	Nil	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	750 plants in 0.469 Ha. area	650 plants in 0.31 Ha with in lease and 150 sapling planted outside lease.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.469 Ha	0.310	Nil, as during the current year 150 trees have been planted out side lease area.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	proposed by plantation	650 sapling have been planted.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air monitoring, water pollution monitoring, vibration and noise survey.	As per proposal.	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Afforestation on waste land, Air, Water noise and vibration monitoring.	Yes as per proposal.	satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	Nil.	Nil, as no reject is reported all the ROM despatched to own captive cement plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No sorting proposed	Nil	Nil
7c	Different grade of mineral sorted out at mines.	No sorting proposed	Nil	Nil
7d	Any beneficiation process at mines	Not proposed.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No sorting and beneficiation proposal is given	Nil	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed as, no top soil in the area, if top soil is occured, sepearte remove and directely used for plantation.	As proposal	Nil

8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump of OB proposed.	As per proposal, seperate dumping of OB.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed, as area is not mature for backfilling.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing plantation upto 2014-15 : 21,753 Nos. and Proposed 750 Nos. during 2015-16.	22553 sapling have been planted upto 1/4/2016.	Nil
8g	Survival rate	80%	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Yes as per proposal.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty of the area in and around the lease area is very good.	Aesthetic beauty of the area in and around the lease area is very good as the natural growth of local trees and trees planted by lessee.	Very good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Upto date submission of Monthly returns and Yearly returns by Online.	M.R. and AR submission is upto date as per proposal. Ar for 2015-16 has also been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - RS Mertia, Geologist - Pranjal Bhatnagar, Manager - RS Mertia	Found in order.	Appointment notice of manager and mining engineer who appointed in 2015 also recieved in this office.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits 23.27 Ha Roads, Plants, Buildings 0.40 Ha Waste Disposal 0.18 Ha Reclaimed / Rehabilitated 0.19 Ha Others(Plantation) 8.88 Ha	Found in order.	Nil
9d	Scrutiny of Annual return on afforestation	Within ML - 650 Outside ML - 150 Survival - 80%	Within ML - 650, Outside ML - 150 have been verified from regioster.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	5,37,669 MT limestone (ROM) with 43% CaO	Found in order	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value - Rs. 0.00, it is captive mine ,Ex. Mine price - Rs. 269.98 Production cost - Rs. 269.80	found in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 1,55,21,046.00 (Closing Balance)	Details given in order.	Nil

9k	Scrutiny of Annual return on mining machineries	Drill M/c -1 Back Hoe - 3 Tipper - 11 Dozer - 1 Tanker - 1	Yes in order.	Nil
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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 :

(Parkash Chetan)

Indian Bureau of Mines