

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-3

Mine code : 38RAJ09004

- (i) Name of the Inspecting : **T001**) **K. K. TARDIA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : R C PUROHIT
Official with
Designation
- (iv) Date of Inspection : 09-MAR-17
- (v) Prev.inspection date : 24-FEB-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MANGROL TILAKHERA**
- (b) **Registration NO.** : **IBM/418/2017**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **CHITTORGARH**
- Village : **MANGROL, TILAKHERA**
- Taluka : **NIMBAHERA**
- Post office : **MANGROL**
- Pin Code : **312617**
- FAX No. : **91-512-2332665, 2399854**
- E-mail : **shambhu.singh@jkcement.com**
- Phone : **91-512-2371478, 2371479, 2371480**
- (f) **Police Station** :
- (g) **First opening date** : **09-MAY-79**
- (h) **Weekly day of rest** : **WED**
2. **Address for correspondance** : **VILLAGE-MANGROL & TILAKHERA**
POST-MANGROL
DISTT-CHITTORGARH
3. (a) **Lease Number** : **RAJ0009**
- (b) **Lease area** : **299.2**
- (c) **Period of lease** :
- (d) **Date of Expiry** : **31-MAR-30**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : J.K.Cement Works
 Kailashnagar Nimbahera
 CHITTORGARH RAJASTHAN
 Phone:01477-220087
 FAX :01477-220027

Owner : KAILASH NATH
 50 MIG BUNGLOW W BLOCK JUHI
 KESHAV NAGAR KANPUR UP
 CHITTORGARH RAJASTHAN
 Phone: 0512-2371478-81
 FAX : 0512-2332665

Agent : R.C.Purohit
 J.K.Cement
 Works,P.O.Kailash Nagar
 Nimbaheda Chittorgarh
 CHITTORGARH RAJASTHAN
 Phone: 01477-220087
 FAX : 01477-220027

Manager
 Name : D.K.Dhakar
 Qualification : B.E
 Appointment/ : 11-APR-13
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	01-OCT-04
		FMCP under 23C(1)	24-JAN-07
		Mining Scheme rule 12 MCDR1988	04-AUG-10
		Modif.approved Mining Scheme	25-JUL-11
		Mining Scheme rule 12 MCDR1988	06-APR-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	Not proposed	Not applicable
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	"6 Boreholes 286.90 mts."	to know the quality on eastern side.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	6.11 Lacs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Not proposed	Not applicable
1e	Balance reserve as on 01/04/20	14.438 million Tons	13.05 Million tons.	
1f	General remarks of inspecting officers on geology, exploration etc		adequate exploration is carried out.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	A-1, 3-13 & 8-9	A-2, 2-7 & 8-9	Advanceme of bench between ML 8-9 is lagging as per proposal.hence, violation of rule 11(2) has been pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	,Benches only in mineral	,Benches only in mineral	As per proposal
2c	Stripping ratio or ore to OB ratio	1 : 0.0042	1 : 0.0051	
2d	Quantity of topsoil generation in m3	3496.5 m3	3720.28 m3	

2e	Quantity of overburden generation in m3	nil	nil	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Advanceme of bench between ML 8-9 is lagging as per proposal.hence, violation of rule 11(2) has been pointed out.	Advanceme of bench between ML 8-9 is lagging as per proposal.hence, violation of rule 11(2) has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	north and south pit	north and south pit	As per proposal
3b	Quantity of ROM mineral production proposed	"1360132.05 t	"1161517.10 t	
3c	Recovery of sailable/usable mineral from ROM production	"1200041.6 Tons	"1046757.1 ton	
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.	160090.45 t	114760	
3g	Grade of sub grade mineral generation	68 LSF	68 LSF	As per proposal
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	As per proposal
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	On the basis of exploration and blast analysis basis.	On the basis of exploration and blast analysis basis.	As per proposal

3j	Provision of drilling and blasting in mineral benches	By drilling and blasting	By drilling and blasting	As per proposal
3k	Provision of mining machineries in mineral benches	Using Hyd. Excavator, Drill machine, Dozer and Tipper.	Using Hyd. Excavator, Drill machine, Dozer and Tipper.	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	As per proposal
3m	Total area covered under excavation/pits	North pit - 24.834 hecets. South pit - 7.445 hecets. Total : 32.279 hecets.	North pit - 25.145 hecets. South pit - 6.772 hecets. Total : 31.917 hecets.	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.0042	1 : 0.0051	
3o	Total area put in use under different heads at the end of year	Pit area - 32.279 Pantation area - 0.25 hecets.	Pit area - 31.917 hecets. Pantation area - 0.5 hecets.	As per proposal
3p	Production of ROM mineral during the last five year period as applicable	2015-16 1360132.05 Tons 2014-15 1600199.03 Tons 2013-14 999733.92 Tons 2012-13 4252261.19 Tons 2011-12 425024.30 Tons	2015-16 1161517.1 Tons 2014-15 757743.59 Tons 2013-14 458511.95 Tons 2012-13 423032.93 Tons 2011-12 393160.99 Tons	
3q	General remarks of inspecting officers on method of mining etc.		As per proposal	

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no proposal	Not applicable	No top soil exist
4b	Location of topsoil, OB and mineral reject dumps	no proposal	Not applicable	
4c	Number of dumps within lease area and outside of lease area	no proposal	Not applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	no proposal	Not applicable	
4e	Number of active and alive dumps.	Not Proposed	Not applicable	
4f	Number of dead dumps.	Not Proposed	Not applicable	
4g	Number of dumps established.	Not Proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Not applicable	
4j	Number of settling ponds	Not Proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	no proposal	No top soil exist	No top soil exist

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	Not applicable	Not Proposed

5b	Area under backfilling of mined out area	Not Proposed	Not applicable	Not Proposed
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not applicable	Not Proposed
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Not applicable	Not Proposed
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not Proposed	Not applicable	no area is mature for 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).	submitted within time.	not submitted	violation of rule 26(2) has been pointed out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	"1200041.6 Tons	"1046757.1 ton	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	blending high grade with low grade.
7c	Different grade of mineral sorted out at mines.	Blending high grade with low grade.	Blending high grade with low grade.	Blending high grade with low grade.
7d	Any beneficiation process at mines	not applicable	not applicable	not applicable

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Blending high grade with low grade.	Blending high grade with low grade.	Blending high grade with low grade.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	5000 tons	5320 tons	for plantation
8b	Concurrent use or storage of topsoil	nil	nil	for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	nil	nil	nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not applicable	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 plants to be planted in 0.25 ha area.	1400 nos. planted in lease area 0.50 ha.	
8g	Survival rate	70%	70%	As per proposal

8h	Water sprinkling on roads to control airborne dust	regular sprinkling of water on roads is done.	regular sprinkling of water on roads is done.	regular sprinkling of water on roads is done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	regular sprinkling of water on roads is done.	aesthetic beauty in and around mines area are good.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	"Monthly Return Submitted upto Feb , 2017 . Annual Return submitted upto 2015-16"	given	given
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Given	Given
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Given	Given
9d	Scrutiny of Annual return on afforestation	Given	Given	Given
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Given	Given
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Given	Given
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Given	Given

9h	Scrutiny of Annual return on fixed assets	Given	Given	Given
9k	Scrutiny of Annual return on mining machineries	Given	Given	Given

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 :

(K. K. TARDIA)

Indian Bureau of Mines