

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/PAL-48/LST-6

**Mine code :** 38RAJ21013

- (i) Name of the Inspecting : **T001** ) **Tardia K.K.**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI S.S RANAWAT, SR. MANAGER(MINES)**  
Official with  
Designation
- (iv) Date of Inspection : 23-DEC-16
- (v) Prev.inspection date : 18-MAR-16

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SINLA 492/93**
- (b) **Registration NO.** : **IBM/10630/2012**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : PALI  
Village : SINLA  
Taluka : JAITARAN  
Post office : NIMBOL  
Pin Code :  
FAX No. : 079-27546603  
E-mail : info@nirma.co.in  
Phone : 079-27546565
- (f) Police Station : JAITARAN
- (g) First opening date : 10-JUN-15
- (h) Weekly day of rest :
2. Address for : NIRMA HOUSE  
correspondance : ASHARAM ROAD  
AHMEDABAD
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : NIRMA LIMITED  
NIRMA HOUSE ASHARM ROAD,  
AHMDABAD PALI RAJASTHAN  
Phone:  
FAX :

Owner : NIRMA LIMITED  
PALI RAJASTHAN  
Phone:  
FAX :

## Mining Engineer

Name : SUNIL MENDIRATTA, Full Time  
Qualification : BE MINING  
Appointment/ : 01-JUL-15  
Termination date

## Geologist

Name : PRADEEP SINGH, Full Time  
Qualification : MSC (GEOLOGY)  
Appointment/ : 01-JUL-15  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 01-JUN-15

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	Not Applicable	Not Applicable
1b	Exploration over lease area for geological axis 1 or 2	43.55 ha 16holes * 50mtrs. Total meterage -800 mtrs.	Exploration had completed and report under preparation and submission.	As per proposal
1c	Exploration Agencies and Expenditure in lakh rupees during the year	own management	own management	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	nil	
1e	Balance reserve as on 01/04/20	11.99 Million Tonnes	11.99 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	as per proposal	as per proposal	as per proposal

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1st year - Advancement of working shall be towards NE & S near boundary line LP 117E-620E & 70S-250N 2nd year - No lateral expansion of fresh area as mining proposed in depth only.	As per proposal of Approved Mining Plan	As per proposal of Approved Mining Plan

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1st year TS-01 Mineral- 01 Over burden (inter- burden)-01  2nd year Mineral-01	The advancement of the benches in pit 4 and 5 are not carried out as per proposal given in mining plan.	Violation of rule 13(1) has been pointed out.
2c	Stripping ratio or ore to OB ratio	1st year - 1:0.15  2nd year - 1:0.00	1st year -1:0.40 2nd year - 1:0.62	
2d	Quantity of topsoil generation in m3	1st year -6560 m3  2nd year - NIL	1st year - 300 m3 2nd year - 300 m3	Soil is Utilized at mine boundary for plantation purpose
2e	Quantity of overburden generation in m3	1st year - 114712 m3	1st year - 78970 m3	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Almost as per proposal.	Almost as per proposal.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1st year -0.80 Million Tonnes 2nd year - 0.80 Million Tonnes	1st year -0.508 Million Tonnes 2nd year -0.439 Million Tonnes (till date)	
		1st year -0.80 Million Tonnes 2nd year - 0.80 Million Tonnes		

3b	Quantity of ROM mineral production proposed	1st year -0.80 Million Tonnes 2nd year - 0.80 Million Tonnes	1st year -0.508 Million Tonnes 2nd year -0.439 Million Tonnes (till date)	Almost as per proposal.
3c	Recovery of saleable/usable mineral from ROM production	1st year -0.80 Million Tonnes 2nd year - 0.80 Million Tonnes	1st year -0.508 Million Tonnes 2nd year -0.439 Million Tonnes (till date)	Almost as per proposal.
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.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual / Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes 8 mtrs ( Avg)	Yes 8 mtrs ( Avg)	As per proposal

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 8 mtrs ( Avg) Yes Sufficeint advancement has been proposed between ore body and waste in pit no. 4 and 5.	Sufficeint advancement has not been kept between limestone and waste in pit no. 4 and 5.	violation of rule 13(1) has been pointed out.
3m	Total area covered under excavation/pits	21.50 ha.(at the end of 5th year)	1st year 10.10 ha 2nd year 10.10 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	1:0.42	
3o	Total area put in use under different heads at the end of year	28.75 ha.(at the end of 5th year)	1st year & 2nd year Pit-10.10 ha Waste/reject-3.70 ha Others-0.550 ha	
3p	Production of ROM mineral during the last five year period as applicable	1st year (2015-16) -0.8 Million Tonnes 2nd year (2016-17) -0.8 Million Tonnes	1st year (2015-16) -0.508 Million Tonnes 2nd year (2016-17) -0.439 Million Tonnes (till date)	
3q	General remarks of inspecting officers on method of mining etc.	OB and mineral benches have been proposed with sufficient advancement.	OB and mineral benches have not been kept with sufficient advancement in pit no.4&5..	violation of rule 13(1) has been pointed out.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil 126X70X10 1st year (2015-16) Waste 140X165X10 2nd year (2016-17) Waste 140X165X10	1st year (2015-16) Waste 140X165X3.5 2nd year (2016-17) Waste 140X165X10	Soil is Utilized at mine boundary for plantation purpose
4b	Location of topsoil, OB and mineral reject dumps	Soil 005N-035N & 590E-640E 1st year Waste 280N-440N & 870E-1050E	Soil 005N-035N & 590E-640E 1st year & 2nd year Waste 280N-440N & 870E-1050E	As per proposal
4c	Number of dumps within lease area and outside of lease area	dumps within lease No dumps outside lease area	dumps within lease No dumps outside lease area	As per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	NA	NA
4e	Number of active and alive dumps.	No	2	
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	233m	233m	as per proposal
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	dumps within lease No dumps outside lease area	dumps within lease No dumps outside lease area	As per proposal

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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	No Proposal	No Proposal
5b	Area under backfilling of mined out area	No Proposal	No Proposal	No Proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	No Proposal	No Proposal
5d	Total area fully reclaimed and rehabilitated	No Proposal	No Proposal	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Proposal	No Proposal	No Proposal

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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).	Retaining wall 1st year -233 mtrs 2nd year- No proposal  Afforestation 1st year -0.30 ha -300 nos. 2nd year - 0.30 ha -300 nos.	Retaining wall 1st year -233 mtrs 2nd year- No proposal  Afforestation 1st year -0.30 ha -350 nos. 2nd year -0.60 ha -600 nos.	As per proposal
6b	Area available for rehabilitation (ha) .	no proposal	NA	NA

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6c	afforestation done (ha).	1st year-0.30 ha. 2nd year -0.30 ha	1st year-0.30 ha. 2nd year -0.60 ha	as per proposal
6d	No. of saplings planted during the year	1st year - 300Nos. 2nd year - 300Nos	1st year - 350Nos. 2nd year -600Nos	As per proposal
6e	Cumulative no .of plants	600	950	
6f	Any other method of rehabilitation	not proposed.	NA	NA
6g	Cost incurred on watch and care during the year	1st year - 45000 2nd year - 45000	1st year - 50000 2nd year - 50000	As per proposal
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	1st year -No Proposal 2nd year -No Proposal	na	na
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1st year -No Proposal 2nd year -No Proposal	na	na
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1st year -No Proposal 2nd year -No Proposal	na	na
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	1st year -No Proposal 2nd year -No Proposal	na	na
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	1st year -No Proposal 2nd year -No Proposal	na	na

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1st year -No Proposal 2nd year -No Proposal	na	na
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1st year -No Proposal 2nd year -No Proposal	na	na
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	1st year -No Proposal 2nd year -No Proposal	na	na
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring will be done AAQ, Water & Noise	Monitoring of AAQ, Water & Noise is carried on quarterly	As per proposal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Monitoring will be done AAQ, Water & Noise	Monitoring of AAQ, Water & Noise is carried on quarterly	Almost as per proposal.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1st year -0.8 Million Tonnes 2nd year -0.8 Million Tonnes Cement Grade +44% CaO	1st year -0.508 Million Tonnes 2nd year -0.439 Million Tonnes (till date) Cement Grade +44% CaO	Almost as per proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	mechanical
7c	Different grade of mineral sorted out at mines.	Not proposed.	na	na

7d	Any beneficiation process at mines	Not proposed.	na	na
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	1st year -0.8 Million Tonnes 2nd year -0.8 Million Tonnes Cement Grade +44% CaO	Almost as per proposal	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Soil shall be ustilised for plantation on mining lease periphery	Done	As per proposal
8b	Concurrent use or storage of topsoil	Soil shall be ustilised for plantation on mining lease periphery	Done	As per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1st year -No Proposal 2nd year -No Proposal	NA	na
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing Plantation - 300nos. 2nd year Plantation - 300nos.	Existing Plantation - 350nos. Additional Plantation done-600nos.	As per proposal
8g	Survival rate	not proposed	80%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on all dust generating points i.e. haul road	Regularly done	As per proposal

8i General remarks of inspecting officer on aesthetic beauty in and around mines area As per proposal

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16	violation of rule 45(5)(aa) and 45(5)(b) have been pointed out.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Violation of rule 45(5)(aa) and 45(5)(b) have been pointed out.	Violation of rule 45(5)(aa) and 45(5)(b) have been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16	Violation of rule 45(5)(aa) and 45(5)(b) have been pointed out.
9d	Scrutiny of Annual return on afforestation		M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16
9h	Scrutiny of Annual return on fixed assets	M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16
9k	Scrutiny of Annual return on mining machineries	M.R online not submitted for the month april 2016 and onward. A.R. online not Submitted for the year -2015-16

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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 :**

**(Tardia K.K.)**

Indian Bureau of Mines