

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/PAL-47/LST-5

**Mine code :** 38RAJ21012

- (i) Name of the Inspecting : **R018** ) **N L ROAT**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : **SHRI S. S RANAWAT, SR. MANAGER(MINES)**  
Official with  
Designation
- (iv) Date of Inspection : 09-SEP-16
- (v) Prev.inspection date : 17-MAR-16

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DIGRANA 377/90**
- (b) **Registration NO.** : **IBM/10630/2012**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : PALI  
Village : DIGRANA  
Taluka : JAITARAN  
Post office : NIMBOL  
Pin Code : 306308  
FAX No. : 079-27546603  
E-mail : info@nirma.co.in  
Phone :
- (f) Police Station : JAITARAN
- (g) First opening date : 28-APR-15
- (h) Weekly day of rest :
2. Address for : NIRMA HOUSE  
correspondance : ASHARM ROAD  
AHMDABAD
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 : RAJESH BORA, Full Time  
Qualification : B.E (MINING)  
Appointment/ : 01-JUL-15  
Termination date

## Geologist

Name : KRISHAN KUMAR SHARMA, 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 09-MAY-13

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	As per approved SOM on 13/052013 total 17 bore holes were proposed to drilled to prove the limestone bed.	No such boreholes were observed to be drilled during inspection.	Violation of Rule13(1) is pointed out.
1b	Exploration over lease area for geological axis 1 or 2	As per approved SOM on 13/052013 total 17 bore holes were proposed to drilled to prove the limestone bed.	No such boreholes were observed to be drilled during inspection.	Nil.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed exploration was to be carried out by the lessee himself.The expenditure to be incurred is not proposed.	Nil.	Nil.
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 38.66 hect. area is yet to be explored.	Reported to be in process.	Earlier this lease is held under minor mineral. The mineral limestone is exposed in the lease area.
1e	Balance reserve as on 01/04/20	Reserves as on 1/07/2015 is 14.92 millions tonns.	Reserves as on 1/04/2016 is 14.40 millions tonns.	Nil.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Actually earlier the area was held under the minor mineral lease & worked by opening scattered pits of irregular shape.The limestone is exposed in pit sections.The systematic exploration is yet to be done in the lease area.	Nil.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	As per approved mining plan approved on09/05/2013 mining operation are proposed to be carried out in pit no1,2,3&4.	Actually the mining operation has been carried during the year2015-16 in pitno.6,7,8&9 in South side of the site proposed.	The deveation is pointed out as violationof rule 13(1).
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate bench in topsoil,overburden and mineral is proposed.	Actually whatever topsoilfound at the site of excavation is scrapped out and exposed limestone bench is worked.	Very thin tosoil is there.
2c	Stripping ratio or ore to OB ratio	During 2nd year1:0.04 reported by the lessee.	During 2nd year1:0.66 reported by the lessee.	Nil.
2d	Quantity of topsoil generation in m3	During 2nd year15585m3 reported by the lessee.	During 2nd year 550m3 reported by the lessee.	Nil.
2e	Quantity of overburden generation in m3	During 2nd year90228m3 reported by the lessee.	During 2015-16 year 81432m3 reported in annual.	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development and production is proposed in pitno.1,2,3&4.	In addition the developmenthas been extended up to pitno.6,7,8&9 in South side.	Violation of rule13(1) is pointed out.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	The production is proposed in pit no.1,2,3&4.	Actually the production hs been obtained extending the excavation up to pit no.6,7,8&9 towards South.	Violation of rule13(1) is pointed out.
3b	Quantity of ROM mineral production proposed	For second year 1.20Million Tonns.	Actual 0.24Million Tonns.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	For second year 1.20Million Tonns.	Actual 0.24Million Tonns.	Recovery of usable ROM is 100%.

3d	Quantity of mineral reject generation	Not proposed.	No mineral reject is reported to be generated.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed.	Not applicable.	Nil.
3f	Quantity of sub grade mineral generation.	Not proposed.	Not applicable.	Nil.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	Nil.
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.	Nproposal as no sub grade.	Not applicable.	Nil.
3j	Provision of drilling and blasting in mineral benches	Drilling& blasting is proposed in mineral bench.	Drilling& blasting is done in mineral bench.	Nil.
3k	Provision of mining machineries in mineral benches	Exploitation is proposed to be carried out by machinery in mineral bench.	Rock breakers, Shovel& dumpers	Nil.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Avg.7mts.	Avg.7.5mts.	Nil.
3m	Total area covered under excavation/pits	Proposed to cover under excavation/pits-6.19hect.	Covered under excavation/pits-12.36hect.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06.	1:0.66.	Nil.
3o	Total area put in use under different heads at the end of year	Total 32.36 hect to be put in use.	Total 15.48 hect put in use so far.	Nil.

3p	Production of ROM mineral during the last five year period as applicable	During first year i.e. (2015-16)-1.01 million tonns	During first year i.e. (2015-16)-0.51 million tonns	The mine executed in 2015-16.
3q	General remarks of inspecting officers on method of mining etc.	The production is proposed in pit no.1,2,3&4.	Actually the production has been obtained extending the excavation up to pit no.6,7,8&9 towards South.	Violation of rule13(1) is pointed out.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping is proposed.The topsoil is to be simultaneously used for plantation.	Separate dumping of waste is done.Siol used for plantatoon.	Nil.
4b	Location of topsoil, OB and mineral reject dumps	Waste dump near C-Dboundary line between grid lineN427 to N492.No topsoil stacked.	The waste has been dumped at the site proposed and topsoil removed is used for plantation.	Nil.
4c	Number of dumps within lease area and outside of lease area	02 Dumps within lease area& no dumps outside lease area.	Two dumps within lease area as proposed.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.The location of dumps has been given at item no.4b.	Not applicable.	Nil.
4e	Number of active and alive dumps.	Two dumps.	Two dumps.	Nil.
4f	Number of dead dumps.	No such proposal.	There is no dead dump.	Nil.
4g	Number of dumps established.	No such proposal for the year2015-16.	No dump established.	Nil.

4h	Whether Retaining wall or garland drain all along dumps are there.	The construction garland drain is proposed.	The garland drain has been maintained.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	435m parapet wall/ retaining wall is proposed.	The retaining wall is observed. As stated by the representative its length is about 385mt.	Nil.
4j	Number of settling ponds	No such proposal.	Not applicable.	Nil.
4k	Specific comments of inspecting officer on waste dump management	No such proposal.	Actually the whatever topsoil removed has been used for plantation. The waste dumps are secured providing retaining wall and garland drain.	Nil.

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No part is fully extracted of mineral and no proposal of back filling during 2015-16.	Not applicable.	Nil.
5b	Area under backfilling of mined out area	No such proposal.	Not applicable.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The simultaneously use of topsoil for plantation is proposed.	Yes, the simultaneously use of topsoil for plantation is carried out.	Nil.
5d	Total area fully reclaimed and rehabilitated	No such proposal.	Not applicable.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No such proposal.	No part of worked out pit mature for backfilling.	Nil.

#### Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	No such proposal.	The annual report on PMCP for the year 2015-16 was not submitted.	Violation of Rule 23E(2) is pointed out.
6b	Area available for rehabilitation (ha) .	No such proposal for the year 2015-16.	Not applicable.	Nil.
6c	afforestation done (ha).	0.50hect.	0.50hect.	Nil.
6d	No. of saplings planted during the year	Total 500 saplings.	Planted 550 saplings	Nil.
6e	Cumulative no .of plants	Total 1000 saplings.	Planted 1600 saplings	Nil.
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil.
6g	Cost incurred on watch and care during the year	Rs.11000 for the 2nd year	Rs.20000.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No proposal.	Not applicable. Actually no void is mature for backfilling.	Nil.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable. Actually no void is mature for backfilling.	Nil.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	No backfilled area available at present.	Nil.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	Nil.



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	Nil.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Not applicable.	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	Nil.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	Nil.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitorin of air & water is proposed.	Quarterly monitorin of air & water is done.	Nil.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Except plantation& construction of retaining wall/garland drain no other specific proposal.	The proposed plantation and construction of retaining wall and garland drain ismaintained.	Nil.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During (2015-16 ) 1.0 millions.	During (2015-16 ) 0.51millions.	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.	No proposal.	Entire limestone production is dispatched to Cement Plant.	Nil.
7d	Any beneficiation process at mines	No proposal.	Not applicable.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No subgrade or mineral reject proposed to be generated.	Actually the entire limestone production is dispatched to cement plant.	Nil.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The separate scraping and utilization of top soil for plantation is proposed.	As proposed topsoil is scrapped separately and concorently utilized for platation.	Nil.
8b	Concurrent use or storage of topsoil	The separate scraping and utilization of top soil for plantation is proposed.	As proposed topsoil is scrapped separately and concorently utilized for platation.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The waste generated is proposed to be dumped separately.	The waste generated is dumped separately.No rejects and fines generated.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	Nil.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for 2015-16.	Not applicable.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal for 2015-16.	In addition to the saplings planted the locally grown vegetation exist in the lease area.	Nil.
8g	Survival rate	No proposal.	About 75% reported by the representative.	Nil.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on all dust generation points i.e. haul road.	It is being done.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No such proposal.	Except degradation of land it is good.	Nil.

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#### Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online monthly return for the month of April, 2016 and online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(aa) & 45(5)(b) has pointed out on 14/10/2016.	Online monthly return for the month of April, 2016 and online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(aa) & 45(5)(b) has pointed out on 14/10/2016.	Nil.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	The Mining Engineer, Geologist and Manager have been employed in the mine.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	Nil.
9d	Scrutiny of Annual return on afforestation	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	Planted 550 saplings have been plated.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	No mineral rejects generation is there.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	Except waste material the entire ROM is dispatched to lessee's cement plant.	Nil.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	It is captive limestone to the cement plant.	Nil.
9h	Scrutiny of Annual return on fixed assets	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	Online annual return for the year 2015-16 has not been submitted.	Nil.
9k	Scrutiny of Annual return on mining machineries	Online annual return for the year 2015-16 has not been submitted for which violation of rule 45(5)(b) has pointed out on 14/102016.	Online annual return for the year 2015-16 has not been submitted.	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
Rule 13(1)	19-OCT-16				
Rule 22(1)	19-OCT-16				
Rule 23E(2)	19-OCT-16				

**Date :**

(N L ROAT)

Indian Bureau of Mines