

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Nitin Purohit, AGM(Mines)
Official with
Designation
- (iv) Date of Inspection : 27-NOV-19
- (v) Prev.inspection date : 24-JAN-18

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 : mines_nimbol@nirma.co.in
Phone : 079-27546565
- (f) Police Station : JAITARAN
- (g) First opening date : 10-JUN-15
- (h) Weekly day of rest : SUN
2. Address for : NIRMA HOUSE
correspondance : ASHARAM ROAD
AHMEDABAD 380009
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 :

Agent : Bharat A. Mehta
 PO -Nimbol, Tehsil Jaitaran
 Tehsil Jaitaran PALI
 RAJASTHAN
 Phone: 02939-222481
 FAX : 02939-222481

Mining Engineer

Name : Bhoopendra Kumar Gautam, 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

Manager

Name : Nitin Purohit
 Qualification : BE(Mining) & FCC(R)
 Appointment/ : 04-JUN-18
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 01-JUN-15
 MP modif under 17(3) MCR 2016 12-SEP-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the previous year.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2018-19.	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the year 2018-19.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2018-19 no exploration proposal given.	Nil	However to upgrade 6.59 hect area from G2 level to G1 level exploration is proposed during the year 2019-20.
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	Balance reserves as on 01.04.2019 15.020 Million Tonne	Nil
1f	General remarks of inspecting officers on geology, exploration etc			During the year 2018-19 there is no proposal of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2018-19 170E-820E & 73S-494N	2018-19 245E-800E & 73S-423N	Mine working within proposed limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes, as per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	1:1.61	1:0.47	Due to less requirement from plant production is less.
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil

2e	Quantity of overburden generation in m3	2018-19 513624 m3	2018-19 77392 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development is being carried out within proposed limit.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	01 Pit	01 Pit	Pit no. 2 & 3 are very small old pits which were merged in Pit No. 5.
3b	Quantity of ROM mineral production proposed	2018-19 0.80 Million Tonnes	2018-19 0.41 Million Tonnes	Nil
3c	Recovery of saleable/usable mineral from ROM production	2018-19 0.80 Million Tonnes	2018-19 0.41 Million Tonnes	Nil
3d	Quantity of mineral reject generation	No proposal	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal of mineral reject generation.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposal of subgrade mineral reject generation.	No subgrade mineral generated.	Nil
3g	Grade of sub grade mineral generation	No proposal of subgrade mineral reject generation.	No subgrade mineral generated.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal given	Nil	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal given	None	Nil
3j	Provision of drilling and blasting in mineral benches	Yes provision was given	DTH Drilling Machines ICM 260 & ROC D40 with hole diameter 115 mm & Blasting is being carried out as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Yes	Komatsu PC 300 & TATA Hitachi 350 are deployed for loading with Volvo FMX 440 tipper for transportation of Limestone & OB.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 7 - 8 meter	As per proposal.	
3m	Total area covered under excavation/pits	At the end of plan period i.e. 2019-20 total area will be covered under excavation/pits 19.82 ha.	At the end of year i.e. 2018-19 total area has been covered under excavation/pits 14.22 ha.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2018-19 1:1.61	2018-19 1:0.47	Nil
3o	Total area put in use under different heads at the end of year	At the end of plan period i.e. 2019-20 total area put in use under different heads: 34.17 ha	At the end of year 2018-19 total area put in use under different heads: 22.41 ha	Nil

3p	Production of ROM mineral during the last five year period as applicable	2015-16: 0.8 MT 2016-17: 0.8 MT 2017-18: 0.75 MT 2018-19: 0.80 MT 2019-20: 0.80 MT	2015-16: 0.508 MT 2016-17: 0.625MT 2017-18: 0.458 MT 2018-19: 0.410 MT 2019-20: 0.160 MT (upto 31.10.2019)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Method of mining is suitable to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil - No proposal OB -YES Mineral reject-No proposal	Top soil - No generation OB -YES Mineral reject-No generation	Nil
4b	Location of topsoil, OB and mineral reject dumps	OB/ Waste Dump 1: 48N-482N & 640E-1050E OB/ Waste Dump 2: 05S-40N & 590E-655E	OB/ Waste Dump 1: 126N-450N & 640E-1050E OB/ Waste Dump 2: 05S-40N & 590E-655E	Waste dumping carried out within proposed limit, however hieght of dump has been raised from proposed limit at the end of year 2018-19, hence violation of Rule 11(1) of MCDR 2017 pointed out to the lessee.
4c	Number of dumps within lease area and outside of lease area	Within the lease area - 02 Outside the lease area - Nil	Within the lease area - 02 Outside the lease area - Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One dump with outside the UPL & one dump partially inside UPL	One dump with outside the UPL & one dump partially inside UPL	The dump partially inside the UPL it will be sifted in future outside the UPL.
4e	Number of active and alive dumps.	01	01	Nil

4f	Number of dead dumps.	01	01	Nil
4g	Number of dumps established.	No such proposal given	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall propped along the dumps.	Retaining wall made.	Nil
4i	Length of Retaining wall or garland drain all along dumps	121m	121m	Nil
4j	Number of settling ponds	No such proposal given	01	Nil
4k	Specific comments of inspecting officer on waste dump management			Waste dumping carried out within proposed limit, however height of dump has been raised from proposed limit at the end of year 2018-19, hence violation of Rule 11(1) of MCDR 2017 pointed out to the lessee.

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.	During the year 2018-19 no proposal of backfilling as the area is not matured for backfilling.	Nil	Nil
5b	Area under backfilling of mined out area	No backfilling proposal during the year 2018-19	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposal given	Not generated during the year 2018-019.	Nil

5d	Total area fully reclaimed and rehabilitated	No proposal during the year 2018-19	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area is not matured for backfilling at this stage.

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).	PMCP yearly report shall be submitted up to 1 July for the preceding financial year.	PMCP report for the year 2018-19 has been submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	0.5 hect.	05. hect.	Nil
6c	afforestation done (ha).	0.5 hect.	0.5 hect.	However plantation has not been carried out on proposed location hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
6d	No. of saplings planted during the year	500	505	Nil
6e	Cumulative no .of plants	Not specified	1583	Nil
6f	Any other method of rehabilitation	No such proposal given	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 250000	Rs. 252500	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling during the year 2018-19.	Nil	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of backfilling during the year 2018-19.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal of backfilling during the year 2018-19.	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 such proposal given	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.5 hect. area	0.5 hect. area	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.5 hect. area	0.5 hect. area	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)	Monitoring was proposed	Monitoring is being carried out.	Nil

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2018-19 0.80 Million Tonne Cement Grade limestone will be dispatched to captive cement plant.	018-19 0.41 Million Tonne Cement Grade limestone dispatched to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	No grade wise sorting	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	None	Nil
7d	Any beneficiation process at mines	No such proposal given	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue was observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposed during the year 2018-19.	No top soil generated	Nil

8b	Concurrent use or storage of topsoil	It will be use in planation if encountered	No top soil generated during the least year.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, OB/wstate dumps proposed	As per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	During the year 2018-19 no such proposal given	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2018-19 total 500 nos. sapling was proposed.	During the year 2018-19 total 505 sapling planted. Cummulative plantation 1583 nos.	Nil
8g	Survival rate	Not specified	82%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed	Water sprinkling was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good in and around the mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return submitted up to Oct. 2019 Annual return submitted up to year 2018-19	Timely submission of returns.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given in AR. Manager - Sh. Nitin Purohit Geologist- Sh. Pradeep Singh Mining Engineer- Sh. Bhoopendra Kumar Gautam	Details found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given in AR O/C working - 14.22 ha. Waste dump - 6.04 ha. Infrastructure & Roads - 2.000 ha. Other - 0.35 ha.	Found to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	Details given 500 nos. plantation having survival rate 82%	Found to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generation	No mineral reject generated.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Detail given that closing stock is Nil	Found to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given Ex. Mine price & production cost = 328.86 Rs./MT	Found to be correct.	Nil

9h	Scrutiny of Annual return on fixed assets	Detail given that information in this regard submitted another mine return(Mine Code 38RAJ21012)	Details given in Digrana Mine annual return. Found to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Found to be correct.	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(D R GURJAR)

Indian Bureau of Mines