### INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

### MCDR INSPECTION REPORT

## Ajmer regional office

	Mine file No : RAJ/PAL-47/LST-5					code :	38RAJ21012	
	(i)	Name of the Inspecting Officer and ID No.	1 :	GQ21 ) D R GURJAR				
	(ii)	Designation	:	Sr. Asst. Contrl. Mines				
	(iii)	Accompaning mine Official with Designation	:	Shri Rajesh Bora,Mine Manag	ger			
	(iv)	Date of Inspection	:	28-NOV-19				
	(v)	Prev.inspection date	:	25-JAN-18				
		РА	RT-	I : GENERAL INFORMATION				
1.	(a)	Mine Name	:	DIGRANA 377/90				
	(b)	Registration NO.	:	IBM/10630/2012				
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station	: : : : : : : : : : : : : : : : : : : :	079-27546565				
	(g)	First opening date	:	28-APR-15				
	(h)	Weekly day of rest	:	SUN				
2.		ess for espondance	:	NIRMA HOUSE ASHARM ROAD AHMDABAD				
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	::					
4.	Mine	ral worked	:	LIMESTONE Main	1			

5.	Name and Address o			
	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	
			FAX • 02959 222401	
	Mining Engin			
	Name	:	Tushar Kanti Paul,Full Time	
	Qualificatio		Diploma(Mining) & II Class FCC(R)	
	Appointment/ Termination		01-JUL-19	
	Termination	uale		
	Geologist			
	Name	:	KRISHAN KUMAR SHARMA,Full Time	
	Qualificatio	n :	MSc GEOLOGY	
	Appointment/	:	01-JUL-15	
	Termination	date		
	Manager			
	Name	:	RAJESH BORA	
	Qualificatio	n :	B.E (MINING)	
	Appointment/ Termination		01-JUL-15	
б.	Date of approval o	f Mini	ing : Fresh under rule 22 MCR1960	09-MAY-

6. Date of approval of Mining: Fresh under rule 22 MCR196009-MAY-13Plan/Scheme of MiningMP modif under 17(3) MCR 201631-MAY-17

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

# Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No backlog of previous year.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2018-19 no exploration proposal given.	Nil	
lc	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2018-19 no exploration proposal given.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal given during the year 2018-19	Nil	Current MCDR inspection has been carried out along with Review of MP inspection, hence vide scrutiny letter dated 13.12.2019 lessee has been directed to submit proposal of exploration for entire potential mineralised area under G1 level as per time limit given in MCDR 2017.
le	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2019 14.48 Million Tonnes	Balance reserves as on 01.04.2019 14.48 Million Tonnes	Nil

1f General remarks of inspecting officers on geology, exploration etc

Current MCDR inspection has been carried out along with Review of MP inspection, hence vide scrutiny letter dated 13.12.2019 lessee has been directed to submit proposal of exploration for entire potential mineralised area under G1 level as per time limit given in MCDR 2017.

#### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2018-19 2918240N to 2919020N & 384650E to 385375E	2018-19 2918260N to 2918980N & 384702E to 385280E	Mine development has been carried out as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes as per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	2018-19 1:1.63	2018-19 1:1.03	Nil
2d	Quantity of topsoil generation in m3	During the year 2018-19 no top soil generation proposal given.	Not generated.	Nil
2e	Quantity of overburden generation in m3	2018-19 599168 m3	2018-19 179580 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out within proposed limit.

Exploitation:

l.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 Pit	01 Pit	Pit no. 7,9,10 & 13 are very small pits and as per proposal these pits are merged with pit no. 12 by systematic mine working.
3b	Quantity of ROM mineral production proposed	2018-19 0.918 MT	2018-19 0.437 MT	MT- Million Tonnes
3c	Recovery of sailable/usable mineral from ROM production	2018-19 0.918 MT	2018-19 0.437 MT	Nil
3d	Quantity of mineral reject generation	No Mineral reject generation proposed.	Nil	Nil
3е	Grade of mineral rejects generation and threshold value declared.	No Mineral reject generation proposed.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No subgrade mineral generation proposed.	No subgrdae mineral generated.	Nil
3g	Grade of sub grade mineral generation	No subgrade mineral generation proposed.	No subgrdae mineral generated.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal during the last year	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes, drilling operation carried out with DTH Drilling ICM 260 & ROC D40 having hole dia of 115 mm	Nil

3k	Provision of mining machineries in mineral benches	Yes	Yes, Using L&T 300 CK loading excavator with the combination of Volvo FMX 440 tipper for transportation of Limestone & OB.	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal.	Nil
3m	Total area covered under excavation/pits	plan period	At the end of year 2018- 19 total area covered under excavation/pits is: 17.74 ha.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2018-19 1:1.63	2018-19 1:1.03	Nil
30	Total area put in use under different heads at the end of year	At the end of plan period i.e.2019-20 it is proposed that total area put in use under different head: 48.14 ha.	At the end of year 2018- 19 total area put in use under different head is 26.3 ha.	
3p	Production of ROM mineral during the last five year period as applicable	MT	2015-16: 0.519 MT 2016-17: 0.609 MT 2017-18: 0.434 MT 2018-19: 0.437 MT 2019-20: 0.179MT (upto 31.10.2019)	MT- Million Tonnes
3q 	General remarks of inspecting officers on method of mining etc.			Method of mining is suitable to the type of deposit.

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 : Not generated OB:Yes Mineral Reject: Not generated	Nil
4b	Location of topsoil, OB and mineral reject dumps	Proposed location of OB/Waste 2018-19 384990 E to 385500 E 2917980 N to 2918780 N	Actual location of OB/Waste 2018-19 385148 E to 385428 E 2918330 N to 2918650 N	Dumping has been carried out within proposed limit, however at the end of year 2018-19 height of dump has been raised from proposed limit, hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
4c	Number of dumps	Within the	Within the lease area -	Nil
	within lease area and outside of lease area	lease area - 06 Outside the lease area - Nil	05 Outside the lease area - Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Three old dumps are within UPL	Three old dumps are within UPL	Nil
4e	Number of active and alive dumps.	02	01	Nil
4f	Number of dead dumps.	04	04	Nil
4g	Number of dumps established.	No such proposal given	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	During the year 2018-19 total 1048m retaining wall was proposed.	Retaining wall was made but no such long retaining wall was made.	No such long retaining wall was made as per proposal during the year 2018-19, hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
4i	Length of Retaining wall or garland drain all along dumps	During the year 2018-19 total 1048m retaining wall was proposed.	Retaining wall was made but no such long retaining wall was made.	No such long retaining wall was made as per proposal during the year 2018-19, hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
4j	Number of settling ponds	No such proposal given	Nil	Nil

4k Specific comments of inspecting officer on waste dump management Durinn the year 2018-19 retaining wall was not made as per proposal , hence violation of rule 11(1) of MCDR 2017 issued 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 backfilling was proposed.	No backfilling has been carried out.	Nil
5b	Area under backfilling of mined out area	During the year 2018-19 no backfilling was proposed.	No backfilling has been carried out.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposal given.	No top soil generated during the year 2018-19	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 fully matured for backfilling at this stage.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	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 yearly report for the year 2018-19 submitted on time.	Nil

6b	Area available for	0.5 hect.	0.5 hect.	Nil
	rehabilitation (ha) .			
бс	afforestation done (ha).	0.5 hect.	0.5 hect.	Nil
6d	No. of saplings planted during the year	500 nos.	515 nos.	
бе	Cumulative no .of plants	2000 nos.	1925 nos.	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
бд	Cost incurred on watch and care during the year	Rs. 250000	Rs. 257500	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)Afforestati on on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil

бm	Compliance of rehabilitation of waste land within lease (i)afforestation	0.5 hect.	0.5 hect.	Nil
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.5 hect.	0.5 hect.	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Nil
бр	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring proposed.	Monitoring is being carried out.	Nil
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Durinn the year 2018-19 retaining wall was not made as per proposal , hence violation of rule 11(1) of MCDR 2017 issued to the lessee.

# Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	0.918 million tonne	2018-19 0.437MT million tonne 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	Nil	Nil

7d	Any beneficiation process at mines	No proposal	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)	generation	No top soil generated	Nil
8b	Concurrent use or storage of topsoil	It will be use in plantation if encountered.	No top soil generated.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes. OB/Waste dumps proposed	As per proposals.	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 515 sapling planted. Cummulative plantation- 1925 nos.	Nil
8g	Survival rate	Not specified	83%	Nil
8h	Water sprinkling on roads to control airborne dust	sprinkling was	Water sprinkling was observed on haul roads.	Nil

Aesthetic beauty is good in and around mines.

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

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return submitted up to Nov. 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. Rajesh Bora Geologist- Sh. K.K. Sharma Mining Engineer- Sh. Tushar Kanti Paul	Found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	in AR O/C working - 17.747ha. Waste dump -	Found to be correct.	Nil
9d	Scrutiny of Annual return on afforestation		Found correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detail given No reject generation reported	No reject generated.	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock -Nil	Found to be correct.	Nil
99	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	& production cost = 387.36	Found to be correct.	Nil
9h	Annual return on		Found to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Found correct.	

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 :

#### (D R GURJAR)

Indian Bureau of Mines