

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Bhod Limestone Mine
1 (b)	Name of Inspecting officer & Designation	G. Ram Sr.Assistant Controller of Mines
1(c)	Accomp.official	Sh. DK Singh
1(d)	Date & Type of Inspection	28.10.2017 & Star Rating/MCDR
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	71.52 Ha., Forest Land – Nil Non-Forest Land – 71.52 Ha.
3	Mine code	38GUJ08026
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/265/2011 M/s Nirma Ltd
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576
6	Village	Bhod
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360576
10	State	Gujarat
11	Post office	Ranavav
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	12/11/1979
15	Date of Execution	12/11/1979
16	Date of opening of Mine	NA
17	Date of first Renewal, if applicable and its period & expiry	11/11/1998
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Period extended as per MMDR amendment act 2015 up to 31/03/2030 as Captive used.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Shailesh V. Sonara, Saurashtra Chemicals, Division of NIRMA Ltd, Birla Sagar, Porbandar Gujarat 360576
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Anay Awasthi, Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D.K.Singh, Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri D.K.Singh, Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43,44	Yes, Shri Yogesh Mehta, M.Sc. (Geology) Part time
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)/MS/518/2009 Dated-07.1.2015 for the period of 2015-16 to 2019-20.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	07/01/2015
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (FM, OTFM, Manual)	'A' (OTFM)
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	N.A.	N.A.	Part of mining lease area is still remain for further exploration as per new provision.
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Not done	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Not done	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Not done	
1e	Balance reserves as on 01.04.2017	As on 01.10.2014-17.46 million tonne-UNFC-(111,121&122-4.08,9.42 &3.96 MT respectively)	After depletion of production achieved, available reserves as on 01.9.2017 is 16.6801million tonne. (to be deduct MR)	
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

2.0 Development

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	2398675 N to 2398917 N 563012 E to 563365 E (pit No 2) & 2398612 N to 2398789 N, 563390 E to 563683 E (Pit No 4) 2398530 N to 2398889, 563991E to 563531 E (Pit No 2,4,8 and 9) plate-5B	The present mine operation has been done partly as proposed in Pit No 2,4, 8 and 9 & deviated due to lagging in production achievement/ change of place of working.	V/L pointed out under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	N.A.	N.A.	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	Not Proposed	NIL	
2e	Quantity of overburden generation in m3	N.A.	N.A.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The present mine working has not been done as proposed by maintaining proposed level of area & mineral rejects stacks		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	4 No of Pits	4 No of Pits	
3b	Quantity of ROM mineral production proposed	4,00,000T	3,13,742.53T	
3c	Recovery of salable/usable mineral from ROM production	88%	88%	
3d	Quantity of mineral reject generation	40,000T	44910T	
3e	Grade of mineral reject generation and threshold value declared	-25mm size separation is not utilised in captive	Stacked separately with in lease area	
3f	Quantity of sub-grade mineral generation	40,000T	44,910T	
3g	Grade of sub-grade mineral generation	Undersize Chemical Grade Limestone	Undersize Chemical Grade Limestone	
3h	Manual / Mechanised method adopted for segregating from ROM	A-OTFM	A-OTFM	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	N.A.	Not done	
3j	Provision of drilling & blasting in mineral benches	65/110mm DTH drill, Atlas-XA-190 Compressor & J/H, Slurry explosive & ANFO proposed	65/110mm DTH drill, Atlas-XA-190 Compressor & J/H, Slurry explosive & ANFO proposed	

3k	Provision of mining machineries in mineral benches	Pay loader of 1m3 bucket capacity & tractor with trolley etc.	Pay loader of 1m3 bucket capacity & tractor with trolley/ tipper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There is no Overburden in mining area and height of benches in mineral is suitable for method of Mining proposed in SOM	There is no Overburden in mining area and height of benches in mineral is suitable for method of Mining proposed in SOM	
3m	Total area covered under excavation/pits	57.34Ha. area proposed in plan period	About 54.84 Ha. Excavated	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
3o	Total area put in use under different heads at the end of year	Pit-3.0 Ha proposed in plan period & Waste/reject – 1.94Ha	Pit- About 0.5 Ha. & Waste/reject & Others- 0.44 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2013-14 – 4,00,000T 2014-15 – 4,00,000T 2015-16 – 4,00,000T 2016-17 – 4,00,000T 2017-18 – 4,00,000T	2013-14 – 353224.5T 2014-15 – 325951.9T 2015-16 – 331291.6T 2016-17 -313742.5T 2017-18 – 134827.9Tup to Sept.17	
3q	General remarks of inspecting officer on method of mining etc.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal of top soil, OB & mineral rejects	NIL	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Undersize Limestone stacked at pit floor	
4c	Number of dumps within lease area and outside lease area	Not proposed	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NIL	
4e	Number of active & alive dumps	Not proposed	NIL	
4f	Number of dead dumps	Not proposed	NIL	
4g	Number of dumps stabilised	Not proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	NIL	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NIL	
4j	Number of settling ponds	Not Proposed	NIL	
4k	Specific comments of inspecting officer	There is no OB/Waste generation, only mineral rejects generation of size separation.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No back filling is proposed as no waste material is available , Undersize material shall be stacked temporarily for future used within due permission of State Govt.	NIL, only undersize material of -25mm size separation generated & stacked separately & utilised in future.	
5b	Area under backfilling of mined out area	Not Proposed	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No generation of top soil & not proposed	NIL	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23 E (2). Details should be given in the format as given in Annexure-20.	N.A.	Annual return as per provision of Rule 26 of MCDR 2017 is submitted with in stipulated time.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) N.A. ii) 0.5 Ha. iii) 500 Nos. iv) No proposed v) N.A vi) N.A	i) N.A. ii) 0.44 Ha. iii) 1500 Nos. iv) Nil v) N.A vi) Not given	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No reclamation is proposed by means of backfilling as no waste material is available	No reclamation is proposed by means of backfilling as no waste material is generated.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	NIL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Ambient Air Monitoring, water quality monitoring and noise monitoring	Ambient Air Monitoring, water quality monitoring, noise monitoring is being done on half yearly basis and soil monitoring on yearly basis	
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	4,00,000T	3,13,742.53T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised & Manual means	Mechanised & Manual means	
7c	Different grade of mineral sorted out at mines	Only Undersize (-25MM) Limestone is available as subgrade mineral and stacked at pit floor	Only Undersize (-25mm) Limestone is available as subgrade mineral and stacked at pit floor	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	About 20 Cu Mt top soil generated	

8b	Concurrent use or storage of topsoil	Not Proposed	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	No Proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	N.A.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out Pits will be utilised as rain water Storage	Pits are being used for rain water harwasting	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500 No Plantation proposed	1500 No. planted	
8g	Survival rate	100%	80-90 %	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on road will be done through water tanker	Water Sprinkling on road is being done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date - A.R. submitted up to till date-		
S.N	Item	Details GIVEN in A.R.(2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri D.K.Singh (Manager & ME) Shri Yogesh Mehta (Geologist)	As provision of rule, appointment should be full time, V/L pointed out for compliance.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current Working – 57.54 Ha. Afforestation / Plantation – 5.67 Ha. 0.5ha Proposed	Covered Under Current Working – About 54.54 Ha. Under excavation & Afforestation / Plantation – 1500 No & 0.5 Ha.	
9d	Scrutiny of Annual return on afforestation	Afforestation / Plantation –500 No & 5.67 Ha area	Afforestation / Plantation – 1500 Nos. & 5.67 Ha.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Sub-Grade or Undersize L/s 10% of ROM (40000 Mt)	44910 Mt	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not proposed	O/s-151708T,ROM-313742.53 Mt, Dispatch-294294.6T, C/s-171155.9T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	N.A.	Ex. Mine Price Rs.487/- per tonne, Cost of Production 486/-	
9i	Scrutiny of Annual return on fixed assets	Industrial – 1350000-Residential - 1925000	Industrial – 1350000-Residential - 1925000	
9k	Scrutiny of Annual return on mining machineries	On Hire basis	On Hire basis	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Presently mine was inspected under Star Rating of Mines inspection & violation under provision of Rules 11(1), 45(5)(b),33 & 55(1)(3) of MCDR,2017 pointed out on 15/11/2017 for rectification & subsequently lessee submitted the compliance report & violation of provision of rules 45(5)(b),33 & 55(1)(3) taken as complied & further SCN of remaining rules pointed out on 12/2/2018 & under process.