

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Adityana Limestone Mine
1 (b)	Name of Inspecting officer & Designation	G. Ram Sr.Assistant Controller of Mines
1(c)	Accomp.official	Sh. DK Singh & Rakesh Patel, MM
1(d)	Date & Type of Inspection	04.11.2017 & Star Rating/MCDR
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	97.61 Ha., Forest Land – Nil Non-Forest Land – 97.61 Ha.
3	Mine code	38GUJ08007
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/238/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576
6	Village	Adityana
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	
10	State	Gujarat
11	Post office	Ranavav Post Office
12	Nearest police station	Ranavav Police Station
13	Nearest Railway station	Ranavav Railway station
14	Date of Grant of Mining Lease	18/05/1955
15	Date of Execution	30/09/1955
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	1 st Renewal applied on 27.02.1975 for 20 years & granted by Govt. vide order dated 12.04.1979 w.e.f. 30.09.1975
18	Date of second Renewal, if applicable and its period & expiry	2 nd Renewal applied on 22.09.1994 for 20 years 3 rd renewal applied on 28.07.2014
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Period extended as per MMDR amendment act 2015 section 8A(5)(6) up to 31/03/2030
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Sailesh V. Sonara, Saurashtra Chemical, Division of Nirma Ltd.Porbandar, quarry@saukemindia.com 0286-2245431(Fax),0286-2242479-81 (Phone)
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Anay Awasthi, Mines Agent, Saurashtra Chemical, Division of Nirma Ltd, quarry@saukemindia.com 0286-2245431 (Fax),0286-2242479-81 (Phone)
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Subhash Adhikari Saurashtra Chemicals, Division of NIRMA Ltd.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Rakesh Patel, Saurashtra Chemical, Division of Nirma Ltd. Porbandar, quarry@saukemindia.com 0286-2245431(Fax),0286-2242479-81(Phone)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)413/93 MCCM(N) UDP Date -27/10/1994
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter No. 682(23) (MS-559)/2010) MCDR Udaipur Date. 20-09-2016 (2016-17 to 2019-20)
27	Mineral(s) granted in lease	Limestone
28	Method of Mining(O/C, U/G)	Opencast
29	Category (FM, Others or 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.	Single trench proposed in plan period.	Not done presently.	
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	40.906 million Tone (As per UNFC 111,121 and 122) & 2.19 Remaining resources as on 01.4.16	After depletion, available 40.5071 million Tone (As per UNFC 111,121 and 122) & 2.19 Remaining resources as on 01.4.17	
1f	General remarks of inspecting officer on geology, exploration etc.	Based on the exploration data available, exposures in the existing pits in the lease area, the ML area is considered under fully explored category, hence no further exploration is proposed.		

2.0 Development

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	A - 2402450 N to 2402650 N 573020 E to 573210 E 2402850 N to 2402920 N 572750 E to 572850 E 2402230 N to 2402380 N 573320 E to 573520 E B – 2403840 N to 2403950 N 572190 E to 572290 E C – 2404570 N to 2404630 N 571820 E to 572190 E	A - 2402450 N to 2402650 N 573020 E to 573210 E 2402850 N to 2402920 N 572750 E to 572850 E 2402230 N to 2402380 N 573320 E to 573520 E B – 2403840 N to 2403950 N 572190 E to 572290 E C – 2404570 N to 2404630 N 571820 E to 572190 E	V/L pointed out under Rule 11(1) of MCDR 2017 for deviation in proposal & change of place of working.
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	25M3	
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.	NIL		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	13	13	V/L pointed out under Rule 11(1) of MCDR 2017 for deviation in proposal & change of place of working.
3b	Quantity of ROM mineral production proposed	400098 Mt	398863 Mt	
3c	Recovery of saleable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	80000 Mt (20%)	28495 Mt	
3e	Grade of mineral reject generation and threshold value declared	N.A.	N.A.	
3f	Quantity of sub-grade mineral generation	N.A.	N.A.	
3g	Grade of sub-grade mineral generation	Undersize Chemical Grade L/S (-25MM)	Undersize Chemical Grade L/S (-25MM)	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	NIL	
3j	Provision of drilling & blasting in	DTH drill, Atlas-XA-210	DTH drill, Atlas-XA-210	

	mineral benches	Compressor & J/H, Rock breaker, Tata Hitachi 200, Pump, Tanker	Compressor & J/H, Rock breaker, Tata Hitachi 200, Pump, Tanker	
3k	Provision of mining machineries in mineral benches	Pay loader of 2m3 bucket capacity & tractor with trolley etc.	Pay loader of 2m3 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	3M Bench Height	More than 3m Bench height & V/L pointed out	
3m	Total area covered under excavation/pits	4.8003 Ha area proposed in plan period	2Ha, Total excavated area- About 50.22Ha	
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	4.8003 Ha area proposed in plan period	0.96Ha 2016-17- Total Pit- 50.22 Ha. Reclaimed-5.2Ha Waste/reject –2.13Ha Others-3Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2013-14 – 400000T 2014-15 – 400000T 2015-16 – 400000T 2016-17 – 400000T 2017-18 – 400000T	2013-14 – 371182.16T 2014-15 – 356420.06T 2015-16 – 366525.81T 2016-17 – 398867.94T 2017-18 – 204227.05T up to Sept.17	
3q	General remarks of inspecting officer on method of mining etc.	NIL		

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	About 25M3	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Undersize Limestone stacked at loading site	
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	Not in Proposal
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	No back filling is envisaged as no waste material is available , Undersize material shall be stacked temporarily for future used within due permission of State Govt.
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6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	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	N.A. 1.36 Ha. 1000 Nos. Wire Fencing (300.)	N.A. 1.0 Ha. 2000 Nos. Wire Fencing (200 m)	
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 available	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Waste 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, is being done on half yearly basis and soil and noise monitoring on yearly basis	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	400000 Mt	398863 Mt	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual/Mechanised by rock breaker	Manual/Mechanised by rock breaker	
7c	Different grade of mineral sorted out at mines	Only Undersize Limestone is available as subgrade mineral and stacked at pit floor	Only Undersize Limestone is available as subgrade mineral and stacked at pit floor	
7d	Any beneficiation process at mines	Not proposed	NIL	
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 25 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 harvesting	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 No Plantation proposed	2000 No. planted	
8g	Survival rate	100%	50-60 %	
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			

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-29/6/2017		
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 Rakesh Patel (Manager & ME.) Shri Yogesh Mehta (Geologist)	Shri Rakesh Patel (Manager & ME.) Shri Yogesh Mehta (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered Under Current Working – 50.22 Ha. Afforestation / Plantation – 5.22 Ha.	Covered Under Current Working – 50.22 Ha. Afforestation / Plantation – 5.22 Ha.	
9d	Scrutiny of Annual return on afforestation	Afforestation / Plantation – 5.22Ha	Afforestation / Plantation – 5.22 Ha.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Sub-Grade or Undersize Limestone 20% of ROM (80000 Mt)	28495 Mt	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s132327.63T,ROM-398867.94 Mt, Dispatch-370372.94T, C/s-160822.6T	O/s-132327.63T,ROM-398867.94 Mt, Dispatch-370372.94T, C/s-160822.6T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex.Mine Price Rs./- 490 per tone Cost of Production 489	--	
9i	Scrutiny of Annual return on fixed assets	Industrial – 1350000 Residential - 1925000	---	
9k	Scrutiny of Annual return on mining machineries	On Hire	On Hire	

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), 33 & 55(1)(3) of MCDR,2017 pointed out on 15/11/2017 for rectification & subsequently lessee submitted the compliance report on 01/1/2018 & further non-compliance of Rules 11(1) SCN was issued on 12/2/2018 & under process.

