

1.0 GENERAL

MCDR INSPECTION REPORT

SN	Particulars	Details
1(a)	Name of the Mine	Bhod Limestone Mines
1(b)	Name of inspecting officer & Designation	R Majumder . R.M.G
1(c)	Accompanying Mines Representatives	Mr D.K.Singh, Manager Mines
1(d)	Type of Inspection	Star rating & MCDR
1(e)	Date of Inspection	09.07.2021
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	71.52 HA, (Forest Area: Nil) (Non-forest Area: 71.52 HA)
3	Minecode	38GUJ08026
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/265/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Chemical, Division of Nirma Ltd, Porbandar. Phone : 02862242479 Fax: 02862245431 E mail: quarry_pbr@nirma.co.in
6	Village	Bhod
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pincode	360560
10	State	Gujarat
11	Post office	Bhod
12	Nearest police station	Ranavav, Porbandar
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	19.09.1964
15	Date of Execution	12.11.1979
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	11.11.1998 for 20 year 10.11.2018
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
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	Shri Sailesh V. Sonara, Executive Director, Saurashtra Chemical, Division of Nirma Ltd, Porbandar Phone No: 07927549000, Fax No: 07927546603, Email: mines@nirma.co.in
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Manish D Patel, Mines Agent, Saurashtra Chemical, Division of Nirma Ltd, Porbandar Phone : 02862242479 Fax: 02862245431 E mail: quarry_pbr@nirma.co.in
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Dhananjay Kumar Singh, Mines Manager, Saurashtra Chemical, Division of Nirma Ltd, Porbandar Phone : 02862242479 Fax: 02862245431 E mail: quarry_pbr@nirma.co.in
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Dhananjay Kumar Singh (Mining Engineer) Saurashtra Chemical, Division of Nirma Ltd, Porbandar Phone : 02862242479 Fax: 02862245431 E mail: quarry_pbr@nirma.co.in
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Violation of rule 11(2) has been pointed out vide IBM letter dated 2.7.2021.
25	Date of Approval of Mining Plan/Modified Mining Plan/Review of mining plan with five-year period and specific condition in approval letter, if any.	Letter No. 684(4)(1)/mp-243/19 MDRD(U)/GNR Dt-. 16.10.2019 (2019-20 to 2023-24)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA

27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/Non Captive	Captive

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

Exploration

SN	Item	Proposals (2020-21)	Actual work	Remarks
1a	Backlog of previous year	N.A.	N.A.	
1b	Exploration over lease area for Geological axis 1 or 2.	28 No's B11 each 20 mtrs & total 560 Mtrs	No exploration work has been carried out in the year 2020-21.	Violation of rule 11(2) has been pointed out.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned	Not mentioned	Exploration not done.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not mentioned in RMP	Approx 10 ha area to explored.	Exploration need to be carried out in the already mined out pit to confirm the vertical extension of ore body.
1e	Balance reserves as on 01.04.2021...	35,21,000 MT (As per UNFC 111.121 and 122) as per mining plan as on 01.09.2019	32,46,035 MT (As per UNFC 111.121 and 122) as per annual return as on 01.04.2021	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration need to be carried out in the already mined out pit to confirm the vertical extension of ore body. Approx 10 ha area to explored.		

2.0 Development

SN	Item	Proposals(2020-21)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit No: 1. Northing 2398619 to 2398796 Easting 581710 to 581984 Pit No:6. 2398326N to 2398700N 582896E to 583317E	Pit No: 1. Northing 2398619 to 2398796 Easting 581710 to 581984 Pit No:6. 2398326N to 2398700N 582896E to 583317E	
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 m ³	Not proposed	20	
2e	Quantity of overburden generation in m ³	Not proposed	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The area is devoid of OB. Occasional topsoil used for plantation.		

3.0 Exploitation

SN	Item	Proposals (2020-21)	Actual work	Remarks
3a	Number of pits proposed for production	Two pit	As per proposal	
3b	Quantity of ROM mineral production proposed	400000	162107.740	
3c	Recovery of salable/usable mineral from ROM production	320000	120207.740	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	N.A.	N.A.	
3f	Quantity of sub-grade mineral generation	80000	41900	
3g	Grade of sub-grade mineral generation	Undersize Chemical Grade Limestone	Undersize Chemical Grade Limestone	
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	N.A.	CaCO ₃ – 85% Al ₂ O ₃ +SiO ₂ – 10%	

Provision of drilling & blasting in mineral benches	YES	YES	
Provision of mining machineries in mineral benches	YES	YES	

21	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 RMP	There is no Overburden in mining area and height of benches in mineral is suitable for method of Mining proposed in RMP	
22	Total area covered under excavation pits	57.892 Ha	57.892 Ha	
23	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
24	Total area put in use under different heads at the end of year	Pit-57.892 Ha Waste/reject - 4.524 Ha Others-2.139 Ha Plantation- 5.520 Ha	Pit-57.892 Ha Waste/reject - 4.524 Ha Others-2.139 Ha Plantation- 5.520 Ha	Proportional area required for production has been mention from page 85 of RMP.
25	Production of ROM mineral during last five-year period, as applicable	Yr 2016-17 400000 Yr 2017-18 400000 Yr 2018-19 400000 Yr-2019-20- 400000 Yr 2020-21 - 400000 MT	Yr-2016-17 113742.530 Yr-2017-18 263770.625 Yr-2018-19 160783.000 Yr-2019-20 257721.665 Yr-2020-21 162107.740 MT	
26	General remarks of inspecting officer on method of mining etc	Mining is done with the use of rock breaker and occasionally done drilling and blasting as per requirement.		

4.0 Solid Waste Management-Dumping				Remarks
SN	Item	Proposals (2020-21)	Actual work	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	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	Undersize Limestone stacked at pit floor	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	N.A.	
4e	Number of active & alive dumps	Not Proposed	Undersize Limestone stacked at pit floor	
4f	Number of dead dumps	Not Proposed.	Nil	
4g	Number of dumps stabilised	NA	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Not done	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Not done	
4j	Number of settling ponds	Not Proposed	N.A.	
4k	Specific comments of inspecting officer	Undersize Limestone stacked at pit floor. The same will sold out after getting permission from State Government.		

5.0 Solid Waste Management-Backfilling				Remarks
SN	Item	Proposals (2020-21)	Actual work	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	Not done	Entirely Mineral exhausted pit not available
5b	Area under backfilling of mined out area	Not Proposed	Not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Use for Plantation	Use in plantation	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Entirely Mineral exhausted pit not available within the ML area.		

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6.0 Progressive Mine Closure Plan				Actual work	Remarks
SN	Item	Proposals (2020-21)	Actual work	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	YES	YES		Return submitted in the June 2021.
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) NO iii) NO iv) No v) No vi)	i) N.A. ii) 0.5 Ha iii) 1000 Nos iv) 8100 Nos v) No vi) Rs 20000/-		
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 Land is available within lease area	No waste Land is available within lease area		
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Ambient Air Monitoring, Water quality monitoring and Noise monitoring	Ambient Air Monitoring, Water quality monitoring and Noise monitoring is being done on quarterly basis and soil monitoring on yearly basis.		
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP return submitted to IBM for the year 2020-21.			

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work	Remarks	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100000	162107.740		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual		
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	No	No		
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Undersize Chemical grade Limestone has been stacked on the pit floor. The same will be sold after getting permission from State Government.			

8.0 Environment

SN	Item	Proposals (2020-21)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Not done.	
8b	Concurrent use or storage of topsoil	Will be used during plantation	As per Proposal.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Not done.	

8e	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not done.	
8f	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out pits will be utilized for rain water storage	Pits are being used for rain water storage.	
8g	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Proposed	Neem, Babul, Kashi etc.	
8h	Survival rate	---	50 %	
8i	Water sprinkling on roads to control airborne dust	Water sprinkling on road to be done through water tanker	As per proposal	
8j	General remarks of inspecting officer on aesthetic beauty in and around mines are	Environment of the mining lease area was found good during inspection.		

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 – up to June-2021 A.R. submitted up to till date-up to 2020-21	

S.N.	Item	Details GIVEN in A.R.(2020-21)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Dhananjay Kumar Singh (Mining Engg) Shri Dhananjay Kumar Singh (Mine manager)	No Geologist has been appointed for this mine. Violation of Rule 55(1) (c) has been observed.	The violation letter has been sent vide IBM letter dated 2.7.2021.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered Under Current working- 57.892 Ha/ Afforestation/ plantation -5.520 Ha	Covered Under Current working- 57.892 Ha/ Afforestation/ plantation -5.520 Ha	Cumulative afforestation.
9d	Scrutiny of Annual return on afforestation	Afforestation/ plantation -0.5 Ha	Afforestation/ plantation - 0.5 Ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Subgrade or Undersize Limestone 20 % of ROM (80,000 Mt)	41900 Mt	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	40000 Mt	162107.740 Mt	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	1) Ex.Mine Prise Rs.390.60/- per tonne 2) Cost of production 390.60/- per tonne	1) Ex. Mine prise Rs. 390.60/- per tonne 2) Cost of production on 390.60/-	Cost of production and ex mine price is same as it is a Captive Mine.
9i	Scrutiny of Annual return on fixed assets	Industrial -1350000 Residential-1925000	Industrial -1350000 Residential-1925000	
9k	Scrutiny of Annual return on mining machineries	Rock Breaker, Fron End Loader, Rock Drill, Air Compressor.	As mentioned in AR.	Tipper (10 tonner) has not been mentioned

Scrutiny of Monthly Return June 2021:

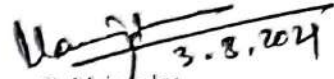
- Closing stock as per June'21 MR – 297223.542 tonnes of Chemical Grade Limestone (under sized) which is tallying tentatively with the actual field position as observed during field inspection.
- Ex-mine price is 390.6 INR has given. No deductions have been claimed.

While scrutiny of annual return for the financial year 2020-21 following discrepancies has been observed:

- 1.1) Part-I, Sr No 3 Post office and taluka have not given
- 1.2) Part I, Sr No 9 - Name of geologist has not been mentioned Violation has been pointed out in this regard.
- 1.3) Part-II Sr No 1. No of whole time geologist has not mentioned
- 1.4) Part V Sec 4 - No pt plantation is mentioned 1000 against the proposal of 300. Survival rate 50% a

10. Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

- During inspection on 07/2021, it was observed violations of MCDR rule 11(C), 35(C) (c), & 45 (7).
- Star Rating validation (4 star) done,


R. Majumder
RMG
