

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Malvada Limestone Mine
1(b)	Name of Inspecting Officer & Designation	R.Majumder, RMG
1(c)	Accompanying Mines Representatives	Shri Chandradev Thakor
1(d)	Type of Inspection	MCDR & Star Rating
1(e)	Date of Inspection	29.3.2022 F/N
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.90Ha
3	Mine Code	38GUJ07073
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/6645/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Prakash Jethalal Thakor, Thakor farm, NH 8BDhoraji Road, Near Upleta bye Pass Board, Upleta, Rajkot-360490
6	Village	MALAVDA
7	Taluka/Mandal	JAMJODHPUR
8	District	JAMNAGAR
9	Pin code	360490
10	State	GUJARAT
11	Post office	GINGANI
12	Nearest police station	JAMJODHPUR
13	Nearest Railway station	JAMJODHPUR
14	Date of Grant of Mining Lease	25/01/2005
15	Date of Execution	02/03/2005 for 30yr, ML period extended up to 01/03/2055 as per MMDR Amendment Act 2015.
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax and date of appointment	---
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	---
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sh. Bharat Chaudhary, BE(Mining) WEF-04.12.2020
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sh. Bharat Chaudhary, BE(Mining) WEF-04.12.2020 (Part time)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Sh. Ashish Kumar Singh, MSc (Geology) WEF 04.12.2020
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	--
26	Date of Approval of Scheme of Mining /Modified Scheme of Mining with five-year period and specific condition in approval letter	13.06.2018
27	Mineral(s) granted in lease proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	OPEN CAST
29	Category (Fully Mechanised, Others or Manual)	MECHANISED

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30 Captive/Non Captive
Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining -

SN	Item	Proposals (2021-22)	Actual work	Remarks
1a	Backlog of previous year	Nil	--	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	--	Five borehole drilled as mentioned in page 12 of RMP.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Shri Ramsibhai Dadubhai, Exp - Rs 63720 /- (INR)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire are has been explored	
1e	Balance reserves as on 01.04.2019.	As per approved RMP dated 18.8.21, Reserves-111- 622665 tonnes. & resources- 221- 108394 t		
1f	General remarks of inspecting officer on geology, exploration etc.	Five borehole drilled as mentioned in page 12 of RMP		

2.0 Development

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	Pit 1	No development work	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Not Proposed	No work done	
2c	Stripping ratio or ore to OB ratio	1:0	As per proposal	
2d	Quantity of topsoil generation in m3	Not Proposed	Negligible	
2e	Quantity of overburden generation in m3	Not Proposed	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit	Mining lease area is developing by forming the open cast mine pit.		

3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	Pit 1	Single pit	
3b	Quantity of ROM mineral production proposed	91146 Tonnes	71218 tonnes	Production is till Feb'22
3c	Recovery of saleable/usable mineral from ROM production	95% of ROM & 5% under size	100% saleable, as undersize ROM is also having market demand.	
3d	Quantity of mineral reject generation	4558 t	Saleable after blending	
3e	Grade of mineral reject generation and threshold value declared	--	Not analysed	
3f	Quantity of sub-grade mineral generation	No Sub Grade mineral	Nil	
3g	Grade of sub-grade mineral generation	No Sub Grade mineral	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual/Mech.	As per proposal	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	No work done	
3j	Provision of drilling & blasting in mineral benches	Not proposed	Not done	
3k	Provision of mining machineries in mineral benches	Compressor, Diesel engine operated pump, tractor trolley, JCB.	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5 meter height	As per proposal	
3m	Total area covered under excavation/pits	--	Total excavated area is about 2.348 ha	As per AR 2020-21

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3n	Ore to OB ratio for the pit/mine during the year	1:0	As per proposal	
3o	Total area put in use under different heads at the end of year	---	Total excavated area is about 2.348 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2016-17 - 11120 t 2017-18 - --- 2018-19 - 57381 t 2019-20 - 61420 t 2020-21 - 46968 t 2021-22 - 91146 t	2016-17 - 18846 t 2017-18 - 524 t 2018-19 - 29275.94 t 2019-20 - 58460.05 t 2020-21 - 21251.18 t 2021-22 - 71218 t (till Feb/22)	
3q	General remarks of inspecting officer on method of mining etc.	Opencast method of mining with HEMM and without drilling & blasting		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	No top soil / mineral reject was proposed.	As per proposal. Occasional occurrence of top soil.	
4b	Location of topsoil, OB & mineral reject dumps	No proposed		
4c	Number of dumps within lease area and outside lease area	Not proposed		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed		
4e	Number of active & alive dumps	Not proposed		
4f	Number of dead dumps	Not proposed		
4g	Number of dumps stabilised	Not proposed		
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed		
4i	Length of Retaining wall or garland drain all along dump	Not proposed		
4j	Number of settling ponds	Not proposed		
4k	Specific comments of inspecting officer	No top soil, no dump, no mineral reject was observed during inspection.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	Nil	
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 36)	Not Proposed	Used as when occurred	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	No mineral exhausted area was available.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No mineral exhausted area was available for reclamation.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)			Report for the year 2020-21 has not submitted to IBM. Hence violation of Rule 26(2) has been pointed out.
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	Not Proposed	Nil	

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	v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
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	Not Proposed	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of of rehabilitation	150 no plants	--	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Six monthly monitoring was proposed	--	--
6f	General remarks of inspecting officer on PMCP compliance & progressive	Environment of the mining area is good. Annual PMCP report has not submitted till date. Violation pointed out.		

7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100 % of ROM is saleable	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	As per proposal	
7c	Different grade of mineral sorted out at mines	Not Proposed	As per proposal	
7d	Any beneficiation process at mines	Not Proposed	As per proposal	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	100 % of ROM is saleable. No beneficiation work carried out.		

8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Not Proposed	No work done	
8b	Concurrent use or storage of topsoil	Not Proposed	No work done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Not Proposed	No work done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Negligible	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	No work done	
8f	Baseline information on existence of plantation & additional plantation done	150 no plants was proposed	Plantation done	
8g	Survival rate	Not mentioned	Low Survival rate.	
8h	Water sprinkling on roads to control airborne dust	Not Proposed	As & when required	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The overall environmental condition of the mining area is good.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted of February 2022 & A.R for the year 2020-21 has been submitted		
S.N	Item	Details GIVEN in A.R.	Observation of I/O	Remarks

	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed	Geologist & ME has been appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details mentioned in AR.	Details mentioned in AR.	--
9d	Scrutiny of Annual return on afforestation	150 no plants was proposed	Plantation done	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Proposed	Not done	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	300 tonnes of cement grade limestone reported in the AR	During inspection stock observed.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of Production is 240	--	--
9i	Scrutiny of Annual return on fixed assets	Not Proposed	--	
9k	Scrutiny of Annual return on mining machineries	--	--	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
 During the present inspection on 29.3.2022 violation of rule 26(2) has been observed. It has been observed that the lease boundary pillars were not available, erected & maintained as required statutorily.
 Validation of online Star Rating done in 3 star.

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 31.3.2022