

MCDR INSPECTION REPORT (Star Rating)

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Vasai Limestone & Marl Mines (4.2467Ha) Sy No-183(New)
1(b)	Name of Inspecting officer	Shri. Naman Ekka, SMG
1(c)	Date of Inspection	10/01/2023
1(d)	Accompanying officer	Lessee - Mr Rajesh Ker & Sanjay Bhai Manik.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	ML Area: 4.2467Ha Survey Nos.: 183(New)
3	Mine code	38GUJ07080
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9230/2012
5	Name of the lessee, Address, phone, email and fax number	Shri Rajesh Sarsulbha Ker, Ashapura Society, Post-Surajkaradi-District-Devbhumi Dwarka- (Gujarat), rajesh_ker @yahoo.com
6	Village	Vasai
7	Taluka/Mandal	Okhamandal
8	District	Devbhumi Dwarka
9	Pin code	361347
10	State	Gujarat
11	Post office	Okhamandal
12	Nearest police station	DevBhumi Dwarka
13	Nearest Railway station	DevBhumi Dwarka
14	Date of Grant of Mining Lease	28.7.2006
15	Date of Execution	27.11.2006, 30 Years (Expiry-26.11.2056 As per MMDR Act 2015, under process)
16	Date of opening of Mine	NA
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
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 number and date of appointment	Shri Rajesh Sardulbha Ker, Ashapura Society, Post-Surajkaradi-District-Devbhumi Dwarka-(Gujarat), rajesh_ker @yahoo.com, mobile-9979884709
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Rajesh Sardulbha Ker, Ashapura Society, Post-Surajkaradi-District-Devbhumi Dwarka- (Gujarat), rajesh_ker @yahoo.com, mobile-9979884709
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	NA
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	NA-Violation under provision of Rule 55(1) (3) pointed out for rectification.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	NA-Violation under provision of Rule 55(1) (3) pointed out for rectification.
25	Date of Approval of Mining Plan/ Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan was approved vide letter no 682(23)/743/2010/MCCM /UDP Dated-12.4.2011 & 12.8.2013
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of MP was approved vide letter no 684(4)(1)/MP/336(266)2021-22GNR Dated-16/08/2021 for 2021-22 to 2025-26.
27	Mineral(s) granted in lease	Limestone
28	Method of	Opencast Mining

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	Mining(OpenCast,UG)	
29	Category (FM, Others or Manual)	A-Category
30	Captive/Non Captive	Non-Captive

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

1.0 Exploration

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
1a	Backlog of previous year	06 BH has been proposed.	As reported 06 BH has been drilled	
1b	Exploration over lease area for Geological axis 1 or 2.	Exploration for G1 Axis	As reported entire Area has been explored in G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	As reported Lessee has done exploration it self	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Entire ML area has been explored under G1 axis.	
1e	Balance reserves (Million Tonnes) as on 29/05/2020	UNFC (111, 122)– 125660 T (Limestone) & 141245 T (Marl) as per last approved mining plan Dated 29.5.2020.		
1f	General remarks of inspecting officer on geology, exploration etc.	Entire ML area has been explored under G1 axis.		

2.0 Development

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	N2471728 to N2471851 E499834 to E500004	As Reported no work carried out in 2021-22	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Proposed	As reported no Work carried out	
2c	Stripping ratio or ore to OB ratio	Not Proposed	As reported no Work carried out	
2d	Quantity of topsoil generation in m3	Not Proposed	As reported no Work carried out	
2e	Quantity of overburden generation in m3	Not Proposed	As reported no Work carried out	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	ML area is developed by single mine pit		

3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	Single pit	Single pit	.
3b	Quantity of ROM mineral production proposed	2021-22– 15000T(L/s) & 41954T (Marl)	AS Reported Nil Production has been done.	
3c	Recovery of salable/usable mineral from ROM production	100%	As reported no Work carried out	
3d	Quantity of mineral reject generation	Not Proposed	As reported no Work carried out	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	As reported no Work carried out	
3f	Quantity of sub-grade mineral generation	Not Proposed	As reported no Work carried out	
3g	Grade of sub-grade mineral generation	Not Proposed	As reported no Work carried out	
3h	Manual / Mechanised method adopted for	Manual/Mech.	As reported no Work carried out	

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	segregating from ROM			
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	As reported no Work carried out	
3j	Provision of drilling & blasting in mineral benches	Drilling & Blasting not proposed	As reported no Work carried out	
3k	Provision of mining machineries in mineral benches	Excavator-1.3, Tipper & water tanker	As reported no Work carried out	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 M bench,	Irregular height	
3m	Total area covered under excavation/pits	About 2.6503 Ha in plan period	2.5114 ha Excavated	
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	Nil	
3o	Total area put in use under different heads at the end of year	About 3.6889 Ha in plan period	Total Excavated area- about 3 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18-24500T(L)& 54220T(M) 2018-19- 24500T(L)& 53720T(M) 2019-20- 0T(L)& 73000T(M) 2020-21 - 30000 (L) & 73000 (M) 2021-22 -15000T(L/s) & 41954T (Marl)	2017-18-17979.5T(L)& 21193.6T(M) 2018-19- 17641.3T(L)& 39863.9T(M) 2019-20- 11776.7 T(L)& 39431.1 T(M) Till 1.5.2020 2020-21 - 13962.710 (L) & 23048.990 (M) 2021-22 - 0.00 (L) & 0.00 (M)	
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is opencast mechanised method without drilling & blasting with excavator & tipper combination.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject.	Not Proposed	As reported no Work carried out	
4b	Location of topsoil, OB & mineral reject dumps	Not proposed,	As reported no Work carried out	
4c	Number of dumps within lease area and outside lease area	Not Proposed	As reported no Work carried out	
4d	Location of dumps w.r.t. ultimate pit limit	No Proposal	As reported no Work carried out	
4e	Number of active & alive dumps	Not Proposed	As reported no Work carried out	
4f	Number of dead dumps	Not Proposed	As reported no Work carried out	
4g	Number of dumps stabilised	Not Proposed	As reported no Work carried out	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	As reported no Work carried out	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	As reported no Work carried out	
4j	Number of settling ponds	Not Proposed	As reported no Work carried out	

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4k	Specific comments of inspecting officer	The area is devoid of OB/waste proposed & generated presently. Hence not applicable presently.
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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	Full Extraction	As reported no Work carried out	
5b	Area under backfilling of mined out area	No proposal	As reported no Work carried out	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	As reported no Work carried out	
5d	Total area fully reclaimed & rehabilitated	No proposal	As reported no Work carried out	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	At the time of inspection mines was not in operation, and was water logged.		

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	Proposed	Submitted	
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	No Proposal	As reported no Work carried out	
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 Proposal	As reported no Work carried out	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	As reported no Work carried out	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Env. Monitoring is being carried out periodical.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Lessee is not submitted the annual PMCP return to this office till date & VL pointed out under rule 26(2) of MCDR, 2017.		

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	ROM Mineral Dispatch	As reported no Work carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	ROM Mineral Dispatch	As reported no Work carried out	
7c	Different grade of mineral sorted out at mines	ROM Mineral Dispatch	As reported no Work carried out	
7d	Any beneficiation process at mines	NIL	As reported no Work carried out	
7e	General remarks of inspecting	Entire ROM is utilising by proper sizing & sorting. No beneficiation		

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	officer on Mineral conservation & beneficiation issues	study done.
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8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil	Not Proposed	Not reported	
8b	Concurrent use or storage of topsoil	Not proposed	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines	No proposal	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	NIL	
8f	Baseline information on existence of plantation & additional plantation done	N.A	NIL	
8g	Survival rate	No proposal	Nearly 30 %	Poor survival
8h	Water sprinkling on roads to control airborne dust	No proposal	Water sprinkling carried out on the haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mines are degraded mine pit & shrubs & bushes are observed.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Online Monthly and Annual returns	Annual Returns of 2021-22 submitted on time, Monthly Returns submitted on time	
S.N	Item	Details GIVEN in A.R. (2021-22) Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Violation under provision of Rule 55(1) (3) pointed out for rectification for previous inspecting officer.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Cover Under O/c Working – 2.511 ha.	
9d	Scrutiny of Annual return on afforestation	No. of Trees Planted during Year 100 Survival Rate – 70%	Survival Rate - ~30%
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No Mineral Reject Generation Reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No ROM stock and/or graded ore Reported	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	No sale value, No Ex. Mine price & production cost Reported – Rs. 10/-	
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets Reported - RS. 0.00/-	
9k	Scrutiny of Annual return on mining machineries	Dumper – 17.00 Tons Reported	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - Presently mine was inspected for Star Rating inspection. During Inspection mines was not in operation for more than 90 days. Violation of Rule 28 of MCDR 2017, Rule 34A(1) Read with Rule 34A(5).

