

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Ghusiya Limestone Mines , Survey No-64/P
1(b)	Name of Inspecting Officer & Designation	Shri Sanjay M Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Shri Gopalsinh Himatsinh Chauhan
1(d)	Type of Inspection	Review of Mining Plan
1(e)	Date of Inspection	04.04.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	2.00 Ha. (Govt. Waste Land) Forest- Nil
3	Mine code	38GUJ08359
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/15413/2013
5	Name of the lessee, Address, phone, email and fax number	Shri Gopalsinh Himatsinh Chauhan. Radhanagar Society, Block no 12, Girnar road P.O. Junagadh, District: Junagadh, Gujarat, Mo-9624047851 Email:- narendra.chauhan1811@gmail.com
6	Village	Ghusiya
7	Taluka/Mandal	Talala
8	District	Gir Somanath(Earlier-Junagadh)
9	Pin code	362150
10	State	Gujarat
11	Post office	Ghusiya
12	Nearest police station	Ghusiya
13	Nearest Railway station	Talala Railway Station
14	Date of Grant of Mining Lease	19.02.1998 for 20 years
15	Date of Execution	14.08.1998
16	Date of opening of Mine	14.08.1998
17	Date of first Renewal, if applicable and its period & expiry	Not applicable as lease granted on 19.02.1998 for 20 years & (As per section 8A(5) of MMDR Amendement Act,2015 lease period deemed to be extended up to 13.08.2048 (Non-Captive Mining Lease)
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	Lease is now Extended now upto 13.08.2048 (vide letter no. MCR-1595(G)-439-Chh. dated on 15.02.2017) subject to obtaining E.C. certificate.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Gopalsinh Himatsinh Chauhan. Radhanagar Society, Block no 12, Girnar road P.O. Junagadh, District: Junagadh, Gujarat, Mo-9624047851 Email:- narendra.chauhan1811@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	No mine agent appointed – Not applicable
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	No Mines Manager has been appointed. (Mine was under temporarily discontinued for the want of Env. Clearance till the date of inspection)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	No Mining Engineer has been appointed. (Mine was under temporarily discontinued for the want of Env. Clearance till the date of inspection)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	No Mining Engineer and Geologist have been appointed (Mine was under temporarily discontinued for the want of Env. Clearance till the date of inspection)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining plan:- 03-11-1997 Vide letter No. 682(23) (747)/97-MCCM(N)UDP.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with	Date of Approval of Scheme of Mining:- 10-12-2013 Vide letter No. 682(23) (747)/1997-MCCM(N)Udai.

	five-year period and specific condition in approval letter, if any.	Period:- From 2013-14 to 2017-18
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)	Semi-Mechanised
30	Captive/Non Captive	Non-Captive

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

Exploration

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	No backlog of previous year 2016-17	NA	Exploration by 4 BHs were proposed in draft Review of MP during the year 2019-20 & 2022-23
1b	Exploration over lease area for Geological axis 1 or 2.	4 Borehole on 50x50m grid interval were proposed in draft Review of Mining	G1 level area-0.81Ha G2 level area-0.53Ha G3 level area-0.66Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposals	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	Proposal for G1 level exploration Given for Year 2019-20.
1e	Balance reserves as on 01.04.2018	In Tonnes <u>Cement & Cement Grade</u> Proved (111)-353880 Probable(122)-25870 Resources Feasibility(211):610800 Pre-Feasibility(221)-238130	In Tonnes <u>Limestone (Cement Grade)</u> Proved (111)-103800 Probable(122)-81300 Resources Feasibility(211):165500 Pre-Feasibility(221)-296700	
1f	General remarks of inspecting officer on geology, exploration etc.	Detailed Explorations to be proposed in the entire area to ascertain the ascertain the in-situ quantity of cement grade Limestone available to meet the criteria/norms of MEMC Rules,2015		

2.0 Development

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	Limestone production was proposed in between pillar 1,2,3,4 and 9	Mine working done over the proposed location with major variation.	The variation due to production done deeper than the proposed limit. Violation of Rule 11(1) pointed out for the deviations
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposals	Not applicable	Area is completely devoid of any type of OB
2c	Stripping ratio or ore to OB ratio	No Proposals	Not applicable	
2d	Quantity of topsoil generation in m3	No Proposals	Nil	
2e	Quantity of overburden generation in m3	No Proposals	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of all working pits are not carried out in systematic manner as per the given proposals in approved MP. Violation of Rule 11(1) was pointed out excess bench height against given proposals. Violation for excess production also pointed out.		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for	Proposed as advancement	Production is carried out	The variation due to

	production	in south direction in 3 rd & 4 th bench (From 88 – 82mRL & from 82 – 79mRLs)	as per the given proposals with some deviations	production done deeper than the proposed limit. Violation of Rule 11(1) pointed out for the deviations
3b	Quantity of ROM mineral production proposed	Limestone- 79,000 tonnes	Limestone- 23,972.125 tonnes	Production is lesser than the proposal due to shortage of labour.
3c	Recovery of salable/usable mineral from ROM production	Proposed as 100%	Recovered as 100%	As entire ROM consumed for Soda ash plant as well as for cement plant
3d	Quantity of mineral reject generation	No Proposals	Nil	No mineral reject or sub grade generated. Entire ROM is usable
3e	Grade of mineral reject generation and threshold value declared	No Proposals	Nil	
3f	Quantity of sub-grade mineral generation	No Proposals	Nil	
3g	Grade of sub-grade mineral generation	No Proposals	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Sorting is proposed within lease area
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	NA	
3j	Provision of drilling & blasting in mineral benches	Hole Dia-102mm, spacing -1.5m, burden-1.5m, use of slurry (both column and base charge)	Hole Dia-102mm, spacing -1.5m, burden-1.5m, use of slurry (both column and base charge)	
3k	Provision of mining machineries in mineral benches	1. JCB (0.40 CUM, 75 HP)-01 2. TRACTOR WITH TROLLEY SYSTEM (4T, 20 HP) -01 3. TIPPERS (17T, 50HP)-01	1. JCB (0.40 CUM, 75 HP)-01 2. TRACTOR WITH TROLLEY SYSTEM (4T, 20 HP) -02 3. TIPPERS (17T, 50HP)-02	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of 6 to 7m proposed in mineral	Height during previous mining operations not maintained	Violation of Rule 11(1) pointed out for deviation in bench height.
3m	Total area covered under excavation/pits	1.4685 Ha.	0.8153 Ha.	The variation due to production done deeper than the proposed limit. Violation of Rule 11(1) pointed out for deviation in bench height.
3n	Ore to OB ratio for the pit/mine during the year	1:0.00	1:0.00	No OB
3o	Total area put in use under different heads at the end of year	Pit- 1.4685 ha. Infrastructure, road-0.0040 ha. Others (Mineral Stack & Plantation)-0.10000 ha.	Pit- 0.8153 ha. Infrastructure, road-0.5488 ha. Others (Mineral Stack & Plantation)-0.0000 ha.	The variation due to production done deeper than the proposed limit
3p	Production of ROM mineral during last four-year period, as applicable	2013-14: 70030MT 2014-15: 70040 MT 2015-16: 70000 MT 2016-17: 79000 MT	2013-14: 99694.16MT 2014-15: 66072.046 mt 2015-16: 91152.81 MT 2016-17: 66584.90 MT	Violation of Rule 45(5)(C) of MCDR,2017 pointed for not submitting annual return since

				2012
		2017-18: 79000 MT	2017-18: 23972.125 MT	
3q	General remarks of inspecting officer on method of mining etc.	Un-Systematic mining carried out by the lessee, benches heights were not maintained as per the proposal. Hence, violation of Rule 11(1) was pointed for these deviations.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	NA	No OB & Mineral reject & top soil is present above the Limestone mineral
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	NA	
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	NA	
4e	Number of active & alive dumps	Not Proposed	NA	
4f	Number of dead dumps	Not Proposed	Nil	
4g	Number of dumps stabilised	Not Proposed	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	NA	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NA	
4j	Number of settling ponds	Not Proposed	NA	
4k	Specific comments of inspecting officer	No top soil and OB is encountered during mining operation hence most items are indicate as “not applicable”		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	None of the pit was fully mineral extracted	No backfilling is proposed during 17-18
5b	Area under backfilling of mined out area	Not Proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	NA	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	No reclamation is proposed during 17-18
5e	General remarks of inspecting officer on backfilling, reclamation etc	No top soil and OB is encountered during mining operation hence there is no scope of reclamation & rehabilitation by backfilling		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work (2017-18)	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.	NA	NA	

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	Not Proposed	NA	Plantation could not survived due to poor rain during 2017-18
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	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.01 ha by planting 10 sapling (developing green belt)	0.0250 ha by planting 10 sapling (developing green belt)	Plantation could not survived due to poor rain during 2017-18
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular monitoring in Core & Buffer Zone proposed for Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration.	Not done	Mine was temporarily discontinued for the want of EC
6f	General remarks of inspecting officer on PMCP compliance & progressive	As per approved Scheme of Mining only afforestation proposals & Environment monitoring proposals were given. Very limited work carried out by lessee on PMCP.		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	79000 Tonnes	23972.125Tonnes (Limestone production quantity)	Cement grade Limestone: 23972 T
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	The ROM (Limestone) is directly sold to the Cement Plant for cement manufacturing. Sorting is required for chemical grade limestone only
7c	Different grade of mineral sorted out at mines	Cement grade- 80% CaCo ₃ , SiO ₂ -2 to 8% Soda Ash Plant: 92-94% CaCO ₃ , SiO ₂ -2 to 4%	Cement grade- 80% CaCo ₃ , SiO ₂ -2 to 8% Soda Ash Plant: 92-94% CaCO ₃ , SiO ₂ -2 to 4%	Both cement grade for cement manufacture & chemical grade limestone for Soda ash plant generated from mine.
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Toatl 100% recovery as both cement grade for cement manufacture & chemical grade limestone for Soda ash plant generated from mine. There are mineral losses from total ROM produced.		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NA	Mining lease area is completely devoid of any type of OB
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	In future pits will be converted into water reservoir due to un-availability of the backfilled material
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	10 Saplings proposed to be planted	10 Saplings were planted near site office.	The backlog of the proposed plantation will be completed during 2018-19
8g	Survival rate	50%	10 %	Very poor survival rate & advised to lessee to work on that
8h	Water sprinkling on roads to control airborne dust	Yes	Yes (Mechanically propelled water tanker)	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine is not that much satisfactory & more emphasis need to be given on maximum plantation.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Not submitted A.R. submitted upto- Not submitted	Violation of Rule 45(5)(C) pointed out for non-submission of returns

S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for the year 2017-18 not submitted by lessee	NA	During the inspection it was advised to Mine representative to submit the AR & MR online regularly & correct cost of production & Ex mine price need to be given as per the guidelines. Violation of Rule 45(5)(C) of MCDR,2017 was pointed for non-submission of Annual Returns since 2012-13 onwards.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	---do---	NA	
9d	Scrutiny of Annual return on afforestation	---do---	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	---do---	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	---do---	NA	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	---do---	NA	
9i	Scrutiny of Annual return on fixed assets	---do---	NA	

9k	Scrutiny of Annual return on mining machineries	---do---	NA	
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:
-The last inspection of mine was carried out on dtd 22/06/2015 and violations of rules 13(1) and 23E(2) of MCDR,1988 were pointed out. The current/present inspection was carried out in connection with examination of Review of Mining Plan and during inspection violation of Rules 11(1), 28(1), 35 (2) and 45(5)(c) were pointed pout and accordingly violation letter was issued.
