

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Shantipura Limestone Mines
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sarmanbhai K Dharmanchotiya, Manager & Sh. Hitesh M. Solanki, ME
1(d)	Type of Inspection	Review of Mining Plan
1(e)	Date of Inspection	28.07.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	19.9611 Ha. (Govt. Waste Land) Forest- Nil
3	Mine code	38GUJ08129
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/773/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Arun Sukhdev Trivedi Legal Heir of Lessee (Late) Sukhdev Jayantilal Trivedi Address :-Near Power House Circle, Housing Society, Dhrangadhra Dist.-Surendranagar-363310, Gujarat (India) Phone-+91-9712985163, Email:- shivam_mining@yahoo.in
6	Village	Shantipura
7	Taluka/Mandal	Malia Hatina
8	District	Junagadh
9	Pin code	362255
10	State	Gujarat
11	Post office	Gadu
12	Nearest police station	Malia Hatina
13	Nearest Railway station	Somnath
14	Date of Grant of Mining Lease	04-09-1964
15	Date of Execution	31-10-1964
16	Date of opening of Mine	01-11-1964
17	Date of first Renewal, if applicable and its period & expiry	31-10-1984, 20 Years. 30-10-2004
18	Date of second Renewal, if applicable and its period & expiry	31-10-2004, 10 Years. 30-10-2014. However, it extended till 31-03-2020 as per Section 8A (6) of the MMDR Amendment Act, 2015
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Second Renewal:01-09-2003, Extended now upto 31-03-2020 (vide letter no. MCR-1583-(T20)-7001-Chh-1 dated on 06.06.2017)
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Arun Sukhdev Trivedi Legal Heir of Lessee (Late) Sukhdev Jayantilal Trivedi Address :-Near Power House Circle, Housing Society, Dhrangadhra Dist.-Surendranagar-363310, Gujarat (India) Phone-+91-9712985163, Email:- shivam_mining@yahoo.in Date of Appointment – 03-10-2008
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Arun Sukhdev Trivedi Legal Heir of Lessee (Late) Sukhdev Jayantilal Trivedi Address :-Near Power House Circle, Housing Society, Dhrangadhra Dist.-Surendranagar-363310, Gujarat (India) Phone-+91-9712985163, Email:- shivam_mining@yahoo.in Date of Appointment – 03-10-2008
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sarmanbhai K Dharmanchotiya At-Chapri, Ta-Veraval, GirSomnath, Gujarat Phone- +91-963853399 Email:- shivam_mining@yahoo.in Date of Appointment – 01.01.2015

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Hitesh Merubhai Solanki B.E. (Mining), Experience: 10 Months At : Kadwar, Ta: Sutrapada, District: Gir Somnath Phone:- 9537892069 Email:- Solankihitesh1234@gmail.com Fax:-N.A. Date of Appointment – 01-01-2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Geologist and Mining Engineer appointed as per rule 55 of MCDR,2017
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 Review of Mining Plan :- 10-09-2018 Vide letter No. 684(4)(1)(MP-163)/2018-GNR Period :- From 2018-19 to 2019-20
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(Open cast, Underground)	Open cast
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	NA	NA	No Proposal in RY
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	1.4499 Ha (G2) 1.0587 Ha (G3)	NA	Proposal for G1 level exploration Given for Year 2018-19
1e	Balance reserves as on 01.04.2018	In Million tones Limestone (Both Grade) Proved-4.085677	In Million tones Limestone (Both Grade) Proved-4.419013	The difference due to lower production than the proposed production during last 5 years
1f	General remarks of inspecting officer on geology, exploration etc.	Detailed Explorations was proposed in the entire area to 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	Northwest-Southeast & advancing in South-West direction	Mine working done over the proposed location with very minor variation.	Working carried out as per the proposed locations with minor deviation due to grade control.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposals for separate benches	Not applicable	No Top soil & Overburden encountered in ML area
2c	Stripping ratio or ore to OB ratio	Not Applicable	Not Applicable	No OB
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	
2e	Quantity of overburden generation in m3	Not Applicable	Not Applicable	

2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of all working pits to be carried out in systematic manner as per the given proposals in approved MP
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3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	In 3 (Three) pits as earmarked on all relevant plates	Mine working is done as per the proposals in 3 pits	
3b	Quantity of ROM mineral production proposed	Limestone - 2,00,000 tonnes	Limestone -56,663 tonnes Production is lesser due to poor market demand and non-availability of labours	
3c	Recovery of salable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Hole Dia-32mm,spacing - 1.5m,burden-1.5m,use of slurry(both column and base charge)	The Rock breaker is used instead of Drilling and blasting	As the in-situ rock is soft in nature, drilling and blasting was not adopted.
3k	Provision of mining machineries in mineral benches	1. JCB (0.800 CUM, 75 HP)-03 2. TRACTOR WITH TROLLEY SYSTEM (5T, 20 HP) -02 3. TIPPERS (10T, 50HP)-08 4. JACK HAMMER (32 mm dia, 50 HP)-03	1. JCB (0.800 CUM, 75 HP)-03 2. TRACTOR WITH TROLLEY SYSTEM (5T, 20 HP) -02 3. TIPPERS (10T, 50HP)-08	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	11.96 Ha.	10.6625 Ha.	No new area is opened only existing pits got deepened.
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	No OB
3o	Total area put in use under different heads at the end of year	Pit- 11.96 ha. Infrastructure, road-0.31 ha. Others (Mineral Stack & Plantation)-0.8 ha.	Pit- 10.6625 ha. Infrastructure, road-0.5414 ha. Others (Mineral Stack & Plantation)-0.2678 ha.	
3p	Production of ROM mineral during last five-year period, as	2013-14: 2,00,000 MT 2014-15: 2,00,000 MT	2013-14: 97,901MT 2014-15: 1,59,500 MT	ROM-Limestone (Chemical Grade)

	applicable	2015-16: 2,00,000 MT	2015-16: 1,78,796.55 MT	+ Cement Grade)
		2016-17: 2,00,000 MT	2016-17: 1,73,803.617 MT	
		2017-18: 2,00,000 MT	2017-18 : 56,663.061 MT	
3q	General remarks of inspecting officer on method of mining etc.	Un-Systematic benching pattern noticed during the inspection.		

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)	NA	Under sized limestone Mineral stacked formed to further sell it to nearby cement plants	Under sized limestone Mineral stacked formed to further sell it to nearby cement plants
4b	Location of topsoil, OB & mineral reject dumps	NA	The U/S mineral stacks from D1 to D13 have been shown on Surface Plan	The U/S mineral stacks from D1 to D13 have been shown on Surface Plan
4c	Number of dumps within lease area and outside lease area	NA	13 No. of mineral stacks are made within the lease area. Nothing is disposed outside the lease	The stacks are temporary in nature as the undersized mineral is regularly being sold to the nearby cement plant
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	Between E-637300m to E-637740m & N-2325100m to N-2325310m	The stacks are temporary in nature as the undersized mineral is regularly being sold to the nearby cement plant
4e	Number of active & alive dumps	NA	Active & Alive: 13 mineral stacks	--do--
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	No top soil, OB, mineral reject 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	Mineral extracted	Mineral extracted	No backfilling is proposed
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	

5d	Total area fully reclaimed & rehabilitated	0 Ha	0.04 Ha	By plantation in the green belt area
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

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.	Yes	Report submitted within time limit as per prescribed format.	
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	NA	NA	
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	i) 0.0 Ha. ii) 0.0 Ha. iii) 0.0 Ha. iv) 0.0 Ha. v) Nil	i) 0.0 Ha. ii) 0.0 Ha. iii) 0.0 Ha. iv) 0.0 Ha. v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.01 ha by planting 20 sapling (developing green belt)	0.01 ha by planting 10 sapling (developing green belt)	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes, Quarterly (Rs. 10,000)/Annum cost	Yes (Rs. 10,000) /Annum cost	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Environmental monitoring work entrusted to the outsourced party and reports were produced during inspection.		

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	NA	Production 56663.06 MT & 48627.688 Tonnes (Limestone dispatch quantity)	Chemical grade limestone: 27363.565 T & Cement grade limestone: 29299.496 T
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	The ROM is subjected to manual sizing & sorting, the part of chemical grade limestone which is more than

				55mm and less than 105mm is sold to the Soda Ash Plant whereas below 55mm is sold to the Cement Plant for cement manufacturing.
7c	Different grade of mineral sorted out at mines	CaO >52 % SiO2<10%	CaO >52 % SiO2<10%	do
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	In view of mineral conservation manual sorting is being practised to get different grades of mineral and also conserved the undersized limestone for cement manufacturing.		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Applicable	Not Applicable	No top soil
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	do
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Applicable	Not Applicable	No, OB, Mineral reject
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	do
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)	20	10	
8g	Survival rate	92 %	50.0 %	
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	Environmental monitoring is being entrusted to the outsourced consultant & reports were produced during inspection.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. Submitted upto – July 2018 A.R. submitted upto- 2017-18	

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	Sh. Hitesh M Solanki, ME Dt. of app. 01.01.2018 Sh. Milind Kundal, Geologist Dt. of app. 01.01.2018	Geologist and Mining Engineer appointed as per rule 55 of MCDR,20107.	During the inspection it was advised to Mine representative to submit the AR & MR correctly for correct cost of production & Ex mine price as per
9c	Scrutiny of Annual return on land use pattern for area under	Given	Pit- 10.6625 ha. Infrastructure, road-	

	pits, reclaimed area, dumps etc.		0.5414 ha. Others (Mineral Stack & Plantation)-0.2678 ha.	the guidelines in future. Further, violations for rules 26(2), 31(4), 35 (2), Rule 46 &45(5)(c) were pointed as discrepancies were observed in Annual Return filed for the year 2017-18. Violation letter was issued accordingly.
9d	Scrutiny of Annual return on afforestation	Given	0.04 ha by planting 40 sapling (developing green belt)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Applicable as no grade wise generation of material not proposed	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not given	Not given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Given	<u>Limestone</u> -Ex-mine price & cost of production Rs-300/MT	
9i	Scrutiny of Annual return on fixed assets	Given	Given	
9k	Scrutiny of Annual return on mining machineries	Given	Given	

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 17.01.2018 and violations of rules 26(2), 33, &45(5)(c) were pointed out not complied. This inspection was carried out in connection with examination of Review of Mining Plan and during inspection violation of rules 26(2), 31(4), 35 (2), Rule 46 &45(5)(c) and accordingly violation letter was issued on 06.09.18 for its rectification.
