MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details	
1(a)	Name of the Mine	Moraj Limestone Mine	
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	Modified Mining Plan	
1(e)	Date of Inspection	27.10.2018	
2	Total Lease Area (Ha) with breakup of	16.1874 Ha. (Govt. Waste Land)	
	Non-forest and forest land	Forest- Nil	
3	Mine code	38GUJ08091	
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4582/2011	
5	Name of the lessee, Address, phone, email and fax number	M/S Sorath Minerals, Address: - C/o Shivam Transport, Near Meenakshi Hotel, Veraval- Junagadh Highway, Veraval, District- Gir Somnath, Gujarat (India), Phone-+91-9825130999, Email:- shivam_mining@yahoo.in	
6	Village	Moraj	
7	Taluka/Mandal	Veraval	
8	District	Gir Somnath	
9	Pin code	362269	
10	State	Gujarat	
11	Post office	Veraval	
12	Nearest police station	Somnath Marine Police Station	
13	Nearest Railway station	Veraval Junction	
14	Date of Grant of Mining Lease	09-07-1968	
15	Date of Execution	06-01-1969	
16	Date of opening of Mine	07-01-1969	
17	Date of first Renewal, if applicable and its	27-09-2002, Period: 06-01-1989 to 05-01- 2009 (20 Years),	
	period & expiry	Expiry: 05-01- 2009	
18	Date of second Renewal, if applicable and	NA.	
	its period & expiry	However, it is extended till 31-03-2020 as per Section 8A (6) of	
10	Date of submission of renewal application if	the MMDR Amendment Act, 2015 Second Renewal: 26-12-2007,	
19	Mining Operations are continuing under	Extended now upto 31-03-2020 (vide letter no. MCR-1588-S-34-	
	deemed extension	490-Chh.1 dated on 06.06.2017)	
20	Name of the Nominated Owner with	Shri Sarmanbhai J. Vala (Proprietor),	
20	Address, phone, email, fax number and date of appointment	Address: - C/o Shivam Transport, Near Meenakshi Hotel, Veraval- Junagadh Highway, Veraval. Dist Gir Somnath - 322265, Gujarat (India), Phone-+91-9825130999, Email:- shivam mining@yahoo.in	
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Sarmanbhai J. Vala (Proprietor), Address: - C/o Shivam Transport, Near Meenakshi Hotel, Veraval- Junagadh Highway, Veraval. Dist Gir Somnath - 322265, Gujarat (India), Phone-+91-9825130999, Email: - shivam mining@yahoo.in	
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	Mr. Hitesh Merubhai Solanki B.E. (Mining), 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	Date of Approval of Mining Plan :- 03-02-2009
	Mining Plan with five-year period and	Vide letter No. 682(23)(614)/2008-MCCM(N)Udai
	specific condition in approval letter, if any.	Period :- From 2009-10 to 2013-14
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with	1) Date of Approval of Mining Scheme with PMCP:- 30-09 2013, Vide letter No. 682(23)(614)/2008-MCCM(U)Udai
	five-year period and specific condition in	Period :- From 2013-14 to 2017-18
	approval letter, if any.	2)Date of Approval of Mining Plan with PMCP:- 29-09-2016
		Vide letter No. 682(23)(601)/2008-MCCM(U)Udai
		Period :- From 2016-17 to 2019-20
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)	Category A (Other than Fully Mechanised)
30	Captive/Non Captive	Non-Captive

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

SN	Item	Proposals	Actual work	Remarks
		(2017-18)	(2017-18)	
1a	Backlog of previous year	NA	NA	No Proposal in FY.
1b	Exploration over lease area for	NA	About 7.86Ha in	In past also no exploration
	Geological axis 1 or 2.		G-1 & 6.49Ha in	carried out by the lessee.
			G-2 level	Based on working pits
1c	Exploration Agency & Expenditure	NA	NA	G1,G2 level of exploration
	in lakh Rupees during the year			is given
1d	Balance area to be explored to bring	NA	About 8.32 Ha area	
	Geological axis in 1 or 2		to be explored to	
			bring in G1 level	
1e	Balance reserves as on 01.04.2018	In Million tones	In Million tones	
		Limestone (Both	Limestone (Both	
		<u>Grade)</u>	<u>Grade)</u>	
		Proved- 5.019	Proved- 1.13	
1f	General remarks of inspecting officer			see in the past. Violation of
	on geology, exploration etc.	Rule 12(4A) of Amended MCDR,2018 was pointed out in order to carry		
		exploration in stipula	ated time.	

2.0 Development

	velopment	1-	T	T	
SN	Item	Proposals	Actual work	Remarks	
		(2017-18)	(2017-18)		
2a	Location of development w.r.t. lease	Proposed development from the	Mine working		
	area	face formed at the end of	not carried out	For this deviation	
		previous year	at proposed	violation were pointed	
		Bench wise excavation	area & in	under provision of	
		proposed from 122mRL to	accordance	Rule 11 of	
		110mRLs covering total 37992	with approved	MCDR,2017	
		Sq.M. area	MMP.	, .	
21		•		T	
2b	Separate benches in topsoil,	No separate benches proposed	Not applicable	Top soil of 0.25 to	
	overburden and mineral	in top.		0.5m thickness	
	(Rule 15)			encountered in the	
				lease area	
2c	Stripping ratio or ore to OB ratio	1:0.0012	Nil	As no top soil	
				generated during the	
2d	Quantity of topsoil generation in m3	580 CuM	Nil	year	
	Camari, or orbital Branching and				
2e	Quantity of overburden generation in	No proposal	Nil		
	m3	- · · · · · · · · · · · · · · · · · · ·			
2f	General remarks of inspecting officer	Developments of pits are not carr	ied out in accorda	nce with approved MMP	
	on development of pit w.r.t. type of	proposals. For this deviations violations of rule 11(1), 31(4) & 46 of			
	deposit etc.	MCDR, 2017 were pointed for its rectification.			
	ucposit etc.	MCDK, 2017 were pointed for its rectification.			

3.0 Exploitation

		Γ= -	т	T = -
SN	Item	Proposals	Actual work	Remarks
		(2017-18)	(2017-18)	
3a	Number of pits proposed for	No specific pits	Pits are not developed	
	production	proposed for	during the year as working	
		production	not done at proposed	
			locations	
3b	Quantity of ROM mineral	Limestone - 9,11,800	Limestone- 51,452.880	Production is lesser
	production proposed	tonnes	tonnes	than the proposed
	Francisco François		1000000	due to poor market
				demand and non-
				availability of
				labours
2-	D	No December 1	NA	labours
3c	Recovery of salable/usable mineral	No Proposal	NA	
2.1	from ROM production	N. D. I	NA	
3d	Quantity of mineral reject	No Proposal	NA	
	generation			
3e	Grade of mineral reject generation	No Proposal	NA	
	and threshold value declared			
3f	Quantity of sub-grade mineral	No Proposal	NA	Whole ROM was
	generation	-		proposed to be
				consumed
3g	Grade of sub-grade mineral	No Proposal	NA	
58	generation	110 Troposar		
3h	Manual / Mechanised method	Opencast Semi-	Opencast Semi-	
311		mechanised	mechanised	
2:	adopted for segregating from ROM			
3i	Any analysis or beneficiation study	No Proposals	NA	
	proposed & carried out for sub-			
	grade mineral and reject			
3j	Provision of drilling & blasting in	Hole Dia-	The Rock breaker is used	As the in-situ rock is
	mineral benches	32mm, spacing -	instead of Drilling and	soft in nature,
		1.5m,burden-1.5m,use	blasting	drilling and blasting
		of slurry(both column		was not adopted.
		and base charge)		•
3k	Provision of mining machineries in	1. JCB (0.800 CUM,	1. JCB (0.800 CUM, 75	
	mineral benches	75 HP)-03	HP)-03	
		2. TRACTOR WITH	2. TRACTOR WITH	
		TROLLEY SYSTEM	TROLLEY SYSTEM (5T,	
		(5T, 20 HP) -02	20 HP) -02	
		3. TIPPERS (10T,	3. TIPPERS (10T, 50HP)-	
		50HP)-08	08	
		4. JACK HAMMER		
		(32 mm dia, 50 HP)-03		
31	Whether height of benches in	No proposals	NA	No OB encountered
	overburden and mineral suitable for			in the mining lease
	method of mining proposed in			area.
	MP/SOM			
3m	Total area covered	13.50На	Pits-7.0939 Ha.	No new area is
Jiii	under excavation/pits	13.30114	1113 7.0737 114.	opened. Locations
	under excavation/pits			
				are also not cleared
				from where
				production is
				achieved.
3n	Ore to OB ratio for the pit/mine	1:0.0012	Nil	No generation of top
	during the year			soil during the year
3о	Total area put in use under different	Pit- 13.50 ha.	Pit- 7.0939 ha.	
	heads at the end of year	Infrastructure- 0.05 ha,	Infrastructure- 0.07 ha.,	
	January Control of June 1	road-0.20 ha.	road-0.4168 ha.	
		Others (Plantation)-	Others (Mineral Stack &	
		0.02 ha.	Plantation)-0.451 ha.	
			· ·	
3p	Production of ROM mineral during	2013-14-:100000MT	2013-14-:29599MT	ROM-Limestone
	last two-year period, as applicable	2014-15-:100000MT	2014-15-:74152MT	production including
1	_ = =	2011 10 11000001111	2011 10 1/11021111	

		2015-16-:100000MT	2015-16-:56740MT	(Chemical Grade +	
		2016-17-: 9,57,634 MT	2016-17-: 57,950 MT	Cement Grade)	
		2017-18-: 9,11,800 MT	2017-18-: 51,452.880 MT		
3q	General remarks of inspecting	Total 6 to 7 pits of small dimensions having maximum depth 1 to 2m depth			
	officer on method of mining etc.	have been noticed. Reported production quantities since beginning of mining			
		operations & excavated pits areas so far not matching/ contradicting to each			
		other.			

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)	No Proposals	NA	Top soil generation is proposed for the year but separate dumping not proposed.
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	NA	The U/S mineral stacks from MS 1 to MS 4 have been shown on Surface Plan
4c	Number of dumps within lease area and outside lease area	Nil	4 No. of mineral stacks are made within the lease area.	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-649186m to E-649034m & N- 2321563m to N- 2321447m	The stacks are temporary in nature as the undersized mineral is regularly being sold to the nearby cement plants.
4e	Number of active & alive dumps	NA	NA	Active & Alive: 4 mineral stacks
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	Except small quantity of top soil generation, no other proposals OB, mineral reject generation is proposed during plan period hence most of the items are indicate as "not applicable" (NA)		

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	No proposals	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	NA	Concurrent use of topsoil for plantation is proposed.
5d	Total area fully reclaimed & rehabilitated	No Proposals	0.01 Ha	By plantation in the green belt area
5e	General remarks of inspecting officer on backfilling, reclamation etc	Presently limestone is not exhausted completely in any of the pits. Hence, backfilling and rehabilitation is not applicable.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in	(2017-18) Yes	(2017-18) Report submitted within time limit as per prescribed format.	
6b	the format as given in Annexure-20. 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	Not proposed	NA	
6c	during the year 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	0.02 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	No workings have been ca PMCP as observed during		ed proposals of

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	51,452.880 Tonnes (Limestone dispatch quantity)	Chemical grade limestone: 51,452.880 T & Cement grade limestone: 0 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	CaO >52 %	CaO >52 %	Chemical &
	out at mines	SiO2<10%	SiO2<10%	Cement grade
				limestone sorted
				separately.
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting	Mineral conservation is prop	osed by segregating Chem	ical & Cement grade
	officer on Mineral conservation &	limestone separately.		
	beneficiation issues			

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	580 CuM of proposed to be generated	Nil	No top soil generated
8b	Concurrent use or storage of topsoil	Proposed	Concurrent use of top soil for plantation purpose.	do
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	NA	No, OB, Mineral reject
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	NA	do
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	In future pits will be converted into water reservoir due to unavailability 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	Lessee has not carried out the necessary environment protective measures as noticed during inspection & accordingly lessee was directed for its implementation.		

9.0 Compliance of Rule 45

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

S.N.	Item	Details GIVEN in	Observation of I/Officer	Remarks
		A.R.		
9b	Scrutiny of Annual return for	Sh. Hitesh M Solanki,	Geologist and Mining	
	information on Mining	ME, Dt. of app.	Engineer appointed as	
	Engineer, Geologist and	01.01.2018	per rule 55 of	
	Manager	Sh. Milind Kundal,	MCDR,20107	
		Geologist		
		Dt. of app. 01.01.2018		
9c	Scrutiny of Annual return on	Given	Pit- 7.0939 ha.	
	land use pattern for area under		Infrastructure- 0.07 ha.,	
	pits, reclaimed area, dumps		road-0.4168 ha.	During the inspection
	etc.		Others (Mineral Stack &	it was advised to
			Plantation)-0.451 ha.	Mine representative to
9d	Scrutiny of Annual return on	Given	0.01 ha by planting 10	submit the AR & MR
	afforestation		sapling (developing green	correctly for correct
			belt)	cost of production &

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Applicable as no grade wise generation of material not proposed	Not applicable	Ex mine price as per the guidelines in future.
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	Limestone-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 10/10/2015 and violations of rules 13(1), 23E(2), 42(1)(C) &45(5)(b) were pointed out. This inspection was carried out in connection with examination of Review of Mining Plan and during inspection violation of rules 11(1), 31(4) and 46 were pointed and accordingly violation letter was issued on 11.12.18. Further, based on the office records violation of rules 27(1) & 35(2) were observed & violation letters were issued and due non-compliance of rule 27(1) of MCDR,2017 mine was suspended on 20.08.18. Moreover, for the discrepancies observed during aforesaid inspection, letter was sent to Commissioner, Geology & Mining, Gandhinagar, Gujarat for taking necessary action at their end in this regard.
