

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars		Details		
1 (a)	Name of the Mine		Pillidhar Bauxite Mines of M/s. Dalmia Refractories Limited		
1(b)	Name of Inspecting Officer & Designation		Sanjay M. Girhe, Sr. Mining Geologist		
1(c)	Accompanying Mines Representatives		Shri Sanjay Kumar Tiwari, Mines Manager		
1(d)	Type of Inspection		Star Ratings		
1(e)	Date of Inspection		30.10.2017		
2	Total Lease Area (Ha) with breakup of Non-forest and forest land		Forest	Non Forest	Total
			Nil	121.40.54	121.40.54
3	Mine Code		07GUJ07097		
4	IBM Registration Number under rule 45 of MCDR, 1988		IBM/1077/2011		
5	I	Name of the lessee,	M/s. Dalmia Refractories Limited (Formerly Shri Nataraj Ceramic & Chemical Ind. Ltd.		
	II	Address,	State Highway No.:25, Post Box No. 10, At & Po : Jam-Khambhalia, Dist : Devbhumi Dwarka, Gujarat 361305		
	II I	Phone,	09825208605, 09825126624		
	I V	E-mail and Fax Number	k.sanjaykumar@dalmiaocl.com , tiwari.sanjay1@dalmiaocl.com		
6	Village		Virpur		
7	Taluka/Mandal		Kalyanpur		
8	District		Devbhumi Dwarka		
9	Pincode		361315		
10	State		Gujarat		
11	Post office		Mevasa		
12	Nearest police station		Bhatia		
13	Nearest Railway station		Bhatia		
14	Date of Grant of Mining Lease		16 th October 1979		
15	Date of Execution		11 th Feb 1991 (Transfer Executed)		
16	Date of Opening of Mine		11 th Feb 1991 (Transfer Executed)		
17	Date of first Renewal, if applicable and its period & expiry		15.10.1999, Applied For Renewal In Govt. Dept. on dt: 05.10.1998 & deemed to consideration up to 20 Years i.e 15.10.2019		
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		Applied For Renewal In Govt. Dept. on dt: 05.10.1998 & Extended up to 31.03.2030 (As per MMDR Amendment Act, 2015)		
20	I	Name of the Nominated Owner	Shri Sameer Nagpal		
	II	Address	4, Scindia House, Connaught Place, New Delhi, Delhi 110001		
	III	Phone	Mo.: 098100 88450, Tel.: 011 23465308		
	IV	Email & Fax number	nagpal.sameer@dalmiabharat.com		
	V	Date of Appointment	04 th February 2016		
21	I	Name of the Mine Agent	Shri U.M.Moorthy		
	II	Address	Dalmiapuram, Post Office Kallakudi 621 651, Dist.: Tiruchirapalli, Tamil Nadu, India		
	III	Phone	Mo.: 098424 35144, Tel.: 043 29235188		
	IV	Email & Fax number	um.moorthy@dalmiaocl.com		
	V	Date of Appointment	10 th Jan 2016		
22	I	Name of the Mines Manager	Shri Sanjay Kumar Tiwari		
	II	Address	M/s. Dalmia Refractories Limited (Formerly Shri Nataraj Ceramic & Chemical Ind. Ltd.) State Highway No.:25, Post Box No. 10, At & Po : Jam-Khambhalia, Dist : Devbhumi Dwarka, Gujarat 361305		
	II	Phone,	09825126624		

	I		
	I	Email & Fax number	tiwari.sanjay1@dalmiaocl.com
	V		
	V	Date of Appointment	09 th July 2013
23	I	Name of the Mining Engineer	Shri Sanjay Kumar Tiwari
		Qualification and total Experience	BE (Mining) – 1980, Second Class Manager Competency Certificate @, MMR – 1961 with Total Experience :
	II	Address	M/s. Dalmia Refractories Limited (Formerly Shri Nataraj Ceramic & Chemical Ind. Ltd.) State Highway No.:25, Post Box No. 10, At & Po : Jam-Khambhalia, Dist : Devbhumi Dwarka, Gujarat 361305
	II	Phone	09825126624
	I	Email & Fax number	tiwari.sanjay1@dalmiaocl.com
	V	Date of Appointment	09 th July 2013
24		Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mining Geologist Reported : Sanjay Kumar Kaushik Mining Engineer Reported : Sanjay Kumar Tiwari
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 : 30th June 1999, Vide IBM Office Letter Dated : 30.06.1999
26		Date of Approval of Scheme of Mining / Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Date of Approval of Scheme of Mining : 08th July 2014, Vide IBM Office Letter No.: 682 (23)/MS-499/2009, Khaniks, (U), Udai, Mining Scheme Approved for the Period from 2014 – 15 to 2018 – 19.
27		Mineral(s) granted in lease and proved for mining	Bauxite
28		Method of Mining (Opencast, Underground)	Opencast
29		Category (Fully Mechanised, Others or Manual)	Others
30		Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved Mining Plan / Scheme of Mining. – : 2016 – 17

Exploration				
	Items	Proposals (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year			
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	47 Boreholes	466 Mtrs.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	M/s. Startum Geoservices, Vadodra Expenditure : 7.85 Lacs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	
1e	Balance reserves as on 01.04.20...	No Proposal	Balance Reserves as on 01.04.2017 :- 6484884 Mt. Proved (111) : 4301129 Mt. Probable (121) : 310137 Mt. Mineral Resources Prefeasibility (221 and 222) : 1521039 Mt. Inferred (333) : 352580 Mt.	
1f	General remarks of inspecting officer on geology, exploration etc.			

2.0 Development

	Items	Proposals (2016-17)	Actual work (2016-17)	Remarks
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2a	Location of development w.r.t. lease area	N00-N75, E230-E500	N00-N70, E200-E450	
2b	Separate benches in topsoil, Overburden and mineral (Rule 15)	Bench in OB : 04 Bench in Ore : 02	Bench in OB : 04 Bench in Ore : 02	
2c	Stripping ratio or ore to OB ratio		Ratio :- 1 : 2.7	
2d	Quantity of topsoil generation in m ³	73824 Cum.	29865 Cum.	
2e	Quantity of overburden generation in m ³			
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

3.0 Exploitation

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks	
3a	Number of pits proposed for production	05	02		
3b	Quantity of ROM mineral production proposed	3,00,007 Mt.	79967.611	As per Approved EC Qty.: 80000MT	
3c	Recovery of salable / usable mineral from ROM production	Usable Mineral Recovery : 15%	Usable Mineral Recovery as a Refractory Grade : 24%		
3d	Quantity of mineral reject generation	Nil	Nil		
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil		
3f	Quantity of sub-grade mineral generation	255006 Mt.	60335 Mt.	As per Approved EC Qty.: 80000MT	
3g	Grade of sub-grade mineral generation	--	Non Refractory Grade		
3h	Manual / Mechanised method adopted for segregating from ROM	--	Manual		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	--	--		
3j	Provision of drilling & blasting in mineral benches	Manual Drilling & Blasting	Manual Drilling & Blasting		
3k	Provision of mining machineries in mineral benches	Plant Grade Bauxite is Separated Manually	Plant Grade Bauxite is Separated Manually		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of Benches in OB : 4 Mtrs. Ore : 2 Mtrs.	Height of Benches in OB : 3 Mtrs. Ore : 2 Mtrs.		
3m	Total area covered under excavation / pits	81582 Sqr. Mtrs.	32980 Sqr. Mtrs.		
3n	Ore to OB ratio for the pit/mine during the year	Ratio :- 1 : 4.06	Ratio :- 1 : 2.7		
3o	Total area put in use under different heads at the end of year	Pit	81582 Sqr. Mtrs.	32980 Sqr. Mtrs.	
		Waste/Reject			
		Others			
3p	Production of ROM mineral during last five-year period, as applicable	2012 – 13	3,00,000.000	74679.507	As per Approved EC Qty.: 80000MT
		2013 – 14	3,00,000.000	51057.118	
		2014 – 15	3,00,000.000	76837.775	
		2015 – 16	3,00,000.000	79912.409	
		2016 – 17	3,00,000.000	79967.611	
3q	General remarks of inspecting officer on method of mining etc.				

4.0 Solid Waste Management-Dumping

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	N700-N780 & W280-W325	N700-N770 & W280-W315	Simultaneous Backfilling

4b	Location of topsoil, OB & mineral reject dumps	N700-N780 & W280-W325	N700-N770 & W280-W315	Simultaneous Backfilling
4c	Number of dumps within lease area and outside lease area	Nil	Nil	Simultaneous Backfilling
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	--	E200-E300 & N600-N700	Old Dump (01No.)
4e	Number of active & alive dumps	Nil	Nil	Simultaneous Backfilling
4f	Number of dead dumps	--	E200-E300 & N600-N700	Old Dump (01No.)
4g	Number of dumps stabilised	--	E200-E300 & N600-N700	Old Dump (01No.)
4h	Whether Retaining wall or garland drain all along dumps are there	--	Yes	Photograph Enclosed
4i	Length of Retaining wall or garland drain all along dump	--	As per Dump Size	
4j	Number of settling ponds	Nil	01	Photographs Enclosed
4k	Specific comments of inspecting officer			

5.0 Solid Waste Management-Backfilling

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	N700-N780 & W280-W325	N700-N770 & W280-W315	Simultaneous Backfilling
5b	Area under backfilling of mined out area	Nil	0.28 Hac.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	1.1859	1.1859	As per Annual Return
5d	Total area fully reclaimed & rehabilitated	5.9647	5.9647	As per Annual Return
5e	General remarks of inspecting officer on backfilling, reclamation etc			

6.0 Progressive Mine Closure Plan

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Last Day to submit Annual Return : 31 st July of Every Year	Yes, submitted on 19.05.2017, vide our office letter No.: DRL/Km/Min/17/533, Dt.: 19.05.2017	
6b	Management of worked / mined out benches			
i	Area available for rehabilitation (ha)	1.1859	1.1859	
ii	Afforestation done (ha)	Nil	0.28	
iii	No. of saplings planted during the year		1500 Nos.	
iv	Cumulative no. of plants		21150 Nos. of saplings planted with 46.85% of Survival Rate	
v	Any other specific method of rehabilitation			
vi	Cost incurred on watch & care during the year		Expenses incurred 2.98 Lac during the year	
6c	Compliance on reclamation and rehabilitation by backfilling			
i	Voids available for backfilling (L X B X D)		0.28 Hac.	
ii	Void filled by waste/tailings			

	iii	Afforestation on the backfilled area			
	iv	Rehabilitation by making water reservoir			
	v	Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease				
	i	Afforestation	Within Same 8.0 Hectares	4.7788 Hac.	
	ii	Area rehabilitated (ha)			
	iii	Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)		As per Quarterly Return	Return Submitted vide his office letter No.: DRL/Km/Min/17/2097, Dt.: 06.10.2017	
6f	General remarks of inspecting officer on PMCP compliance & progressive				

7.0 Mineral Conservation

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade Wise details	Grade Wise dispatches details after sorting of ROM Mineral PG : 19232.195 Mt. NPG : 54994.850	As per Annual Return
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Different Grade in Range PG : Al2O3 % : 54.00 Min. Fe2O3 % : 3.80 Max. Cao % : 1.80 Max	Different Grade in Range of PG Grade : Al2O3 % : 52.45 Fe2O3 % : 3.40 Cao % : 0.99	
7d	Any beneficiation process at mines	No beneficiation process at mines	No beneficiation process at mines	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	N700-N780 & W280-W325	N700-N770 & W280-W315	Simultaneous Backfilling
8b	Concurrent use or storage of topsoil	N700-N780 & W280-W325	N700-N770 & W280-W315	Simultaneous Backfilling
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	--	--	Simultaneous Backfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	--	--	Simultaneous Backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	--	--	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Nil	1500 Nos.	
8g	Survival rate		90%	

8h	Water sprinkling on roads to control airborne dust		Regularly Water Sprinkling on Roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are			

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto September 2017 vide his office letter No.: DRL/Km/Min/17/2148, Dt.: 07.10.2017. & A.R. submitted upto 2016 – 17 vide his office letter No.: DRL/Km/Min/17/535 & 772, Dt.: 19.05 & 06.06.2017.	

S. N.	Item	Details GIVEN in A.R. (2016-17)	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Geologist : Sanjay Kumar Kaushik ME & Manager : Sanjay Kumar Tiwari	Intimation for appointment of statutory persons was given to IBM	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit Area : 32980 Sqr. Mtrs Reclaimed Area: 4.7788 Hac. Backfilled Area : Within 08.00 Hac.	Systematically reclaimed and good amount of plantation also done.	
9d	Scrutiny of Annual return on afforestation	Within 08.00 Hac.	Done	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM / NPG Stocks : 163565.067 Mt. up to 31.03.2017	Reported in Annual Return and also found correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	PG use in Captive Plant only, NPG saleable material – Last Sale Price / Ex. Mine Price Rs. 900/- per MT. included Govt. Dues. ROM Production Cost : Rs. 596.44 per MT. as per Annual Return	Cost of production was computed correctly taking into all applicable aspects like DMF, NMET, etc.	
9i	Scrutiny of Annual return on fixed assets	Office, Weighbridge, Explosive Magazine, Amonium Nitrate Storage House within 2.4802 Hac.	All these structures were found at site and considered in fixed assets.	
9k	Scrutiny of Annual return on mining machineries	Excavator cum Loader JCB on hired basis.		

- 10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Last inspection was carried out on dtd 05.03.2014 and during the inspection violation of rules 13(1) pointed out and same was compiled on dtd 07.08.2014 after receiving satisfactory reply from the lessee. During the current inspection violation of rules 11(1) and 13 were pointed out and for its rectification violation letter was issued on dtd. 02.01.2018
