

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details		
1(a)	Name of the Mine	Mewasa Bauxite Mines, of M/s. Harisiddhi Ent. Survey No-141		
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist		
1(c)	Accompanying Mines Representatives	Lessee representative & Sh. K.S.Nagori, TQP		
1(d)	Type of Inspection	Review of Mining Plan		
1(e)	Date of Inspection	04.11.2017		
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest	Non Forest	Total
		Nil	3.20	3.20 Ha
3	Mine Code	07GUJ07137		
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8141/2011		
5	Name of the lessee, Address, Phone, E-mail and Fax Number	M/s. Harsiddhi Enterprises, Porgate, Nagar Street, PO-Jam-Khambalia, Taluka-Kalyanpur, Dist-Devbhumi Dwarka-361315, Phone-2584315, Mobile-9998991859 E-mail: c.r.godhani88@gmail.com		
6	Village	Mewasa		
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	20 th January 1986		
15	Date of Execution	07 th April 1986		
16	Date of Opening of Mine	NA		
17	Date of first Renewal, if applicable and its period & expiry	Applied For Renewal In Govt. Dept. on dt: 16.03.2005 & deemed to consideration up to 20 Years i.e 15.03.2025		
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. & Extended up to 06.04.1936 (As per MMDR Amendment Act, 2015)		
20	Name of the Nominated Owner Address, Phone Email, & Fax number, Date of Appointment	Shri. Krunalbhai C. Patel, Partner of the Firm nominated/authorised as Signatory authority for legal matters & documentation		
21	Name of the Mine Agent, Address, Email & Fax number, Phone Date of Appointment	NA		
22	Name of the Mines Manager, Address, Email & Fax number, Phone number, Date of Appointment	NA		
23	Name of the Mining Engineer Qualification and total Experience Address Phone Email & Fax number Date of Appointment	NA		
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	NA		
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 : 08.12.2005, Vide IBM Office Letter Dated : 08.12.2005		
26	Date of Approval of Scheme of Mining /	Date of Approval of Scheme of Mining : 29.04.2015, Vide		

	Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	IBM Office Letter No.: 682 (23)/MS-651/2009, Khaniks, (U), Udai, Mining Scheme Approved for the Period from 2015-16 to 2016-17.
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	Nil		
1b	Exploration over lease area for Geological axis 1 or 2.	One Trial Pit	One Trial Pit of 4mx4mx4m	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	M/s. Harisiddhi Enterprise Expenditure -NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	
1e	Balance reserves as on 01.04.2017	No Proposal	Balance Reserves as on 01.04.2017 :- 181291 Mt. Proved (111) : 181291 Mt. Probable (121) : Nil Mt. Mineral Resources Prefeasibility (211) : 111417 Mt.	
1f	General remarks of inspecting officer on geology, exploration etc.	Most of the area is explored by existing working & remaining area lessee proposes exploration in the area.		

2.0 Development

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks
2a	Location of development w.r.t. lease area	Working proposed along M-M1 section line by forming one bench	Working carried out at proposed location by forming one bench	
2b	Separate benches in topsoil, Overburden and mineral (Rule 15)	Bench in OB : 01 Bench in Ore : 01	Bench in OB : 01 Bench in Ore : 01	
2c	Stripping ratio or ore to OB ratio	1:0.30	Ratio :- 1:0.3	
2d	Quantity of topsoil generation in m ³	230 Cum.	120 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.	Top soil of 0.5M & Limestone of 1 to 2 M act as overburden where separate benches proposed for excavation		

3.0 Exploitation

Items		Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	36500 Mt.	6104 MT	
3c	Recovery of salable / usable mineral from ROM production	Usable Mineral Recovery : 95%	Usable Mineral Recovery as a Refractory Grade : 95%	5% proposed as waste from ROM
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	Not Propose	Nil	

	generation			
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Manual Drilling & Blasting	Manual Drilling & Blasting	
3k	Provision of mining machineries in mineral benches	Excavator-0.9M3, Tipper-15 Tonnes Jack Hammer-32mm	Excavator-0.9M3, Tipper-15 Tonnes Jack Hammer-32mm	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of Benches in OB : 1-2 Mtrs. Ore : 4-5 Mtrs.	Height of Benches in OB : 1-2 Mtrs. Ore : 4-5 Mtrs.	
3m	Total area covered under excavation / pits	1.1310 Ha	1.1310 Ha	
3n	Ore to OB ratio for the pit/mine during the year	Ratio: 1:0.30	Ratio :- 1:0.3	
3o	Total area put in use under different heads at the end of year for	Pit-1.1610Ha OB Dumps-0.02Ha Mineral Storage-0.02Ha Infrastructure-0.005Ha	Pit-1.37Ha OB Dumps-0.02Ha Mineral Storage-0.02Ha Infrastructure-0.005Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2012 – 13	NA	67825 Tonne
		2013 – 14	47562	37508 Tonne
		2014 – 15	45021	1466 Tonne
		2015 – 16	37775	17725 Tonne
		2016 – 17	36500	6104 Tonne
3q	General remarks of inspecting officer on method of mining etc.	Nil		

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)	Concurrent use of OB & top for backfilling & Plantation proposed	OB & top used for backfilling & Plantation	Simultaneous Backfilling
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	NA	Simultaneous Backfilling
4c	Number of dumps within lease area and outside lease area	OB Dump-01 between W150 to W100 grid Mineral Stacks-03	OB Dump-01 between W150 to W100 grid Mineral Stacks-03	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dumps within mined out pits & over virgin area	Temporary dumps within mined out pits & over virgin area	Old Dump (01No.)
4e	Number of active & alive dumps	One between W150 to W100 grid	One between W150 to W100 grid	
4f	Number of dead dumps	One	One	Old Dump (01No.)
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
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	Top limestone is act as overburden of 1 to 3 M depth & dumped separately.
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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	Not Proposed	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of OB & top soil for backfilling & Plantation proposed	Concurrent use of OB & top for backfilling & Plantation proposed	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

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	Report submitted	
6b	Management of worked / mined out benches			
i	Area available for rehabilitation (ha)	07942 Ha	07942 Ha	
ii	Afforestation done (ha)	Nil	0.28 Ha	
iii	No. of saplings planted during the year	20 Saplings proposed	20 Saplings planted	
iv	Cumulative no. of plants	NA	NA	
v	Any other specific method of rehabilitation	NA	NA	
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)	988 M2 area proposed for backfilling	Nil	No backfilling done
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	NA	NA	
ii	Area rehabilitated (ha)			
iii	Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Water & Noise monitoring proposed	Ambient Air, Water & Noise Quality Monitoring done Quarterly once in year(Except Monsoon Season)	

6f	General remarks of inspecting officer on PMCP compliance & progressive	Environmental monitoring entrusted to the outsourced consultant & relevant reports were produced during inspection
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7.0 Mineral Conservation

	Items	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade Wise details	Grade Wise dispatches details after sorting of ROM Mineral NPG : 6104 MT	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	Ore sorted for different grade i.e. Plant & non Chemical-45% Al ₂ O ₃ Refract-55% Al ₂ O ₃ NPG- 30% Al ₂ O ₃ Mettallurgical- +40% Al ₂ O ₃	Ore sorted for different grade i.e. Plant & non Chemical-45% Al ₂ O ₃ Refract-55% Al ₂ O ₃ NPG- 30% Al ₂ O ₃ Mettallurgical- +40% Al ₂ O ₃	
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	High grade Refractive & Abrasive grade of ore consumed in captive plant & rest NPG sold outside for cement manufacturer		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal & utilization of top soil for backfilling & Plantation proposed	Separate removal & utilization of top soil for backfilling & Plantation done	Concurrent use proposed
8b	Concurrent use or storage of topsoil	Concurrent use of top soil for backfilling & Plantation proposed	Concurrent use of top soil for backfilling & Plantation done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	Nil	Simultaneous Backfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent use of top soil for backfilling & Plantation proposed	--	Simultaneous Backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Backfilled Proposed phase wise for the year	Not achieved to less production & generation of OB	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	20 Saplings proposed Information on cumulative plantation – NA	20 Saplings planted Information on cumulative plantation - NA	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	Regular Water Sprinkling on mines haul roads proposed	Regularly Water Sprinkling on mine haul Roads	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mine is not satisfactory & lessee advised to work on these issues.
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9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	MR & AR not submitted by the lessee online for which Violations of 45(5)(b) & 45(5)(b) of MCDR,2017 pointed out	

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	NA	NA	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA	
9d	Scrutiny of Annual return on afforestation	NA	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	NA	NA	
9i	Scrutiny of Annual return on fixed assets	NA	NA	
9k	Scrutiny of Annual return on mining machineries	NA	NA	

- 10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Last inspection was carried out on dtd 12.06.2012 and during the inspection violation of rules 12(3), 23B(3), 42(1)(c), 45(5)(a) & 45(5)(b) were pointed out and same was not complied as per the office record. During the current inspection violation of rules 11(1), 26(2), 45(5)(b) & 45(5)(c) were pointed out and for its rectification violation letter was issued on dtd. 02.01.2018
