MCDR INSPECTION REPORT

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	ENERAL			
SN	Particulars	Details		
1(a)	Name of the Mine	Ratadia Nagrecha Bauxite Mines (204.07 Ha)		
1(b)	Name of Inspecting officer & Designation	G. Ram, Sr.Assistant Controller of Mines		
1(c)	Accomp.official	Shri SG Patel, SR Rathore		
1(d)	Date & Type of Inspection	24.10.2018, Star Rating		
2	Total Lease Area (Ha) with breakup of Non- forest and forest land	204.07 Hect. (Non-Forest) Survey No.133,262,305P		
3	Mine code	07GUJ10008		
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011		
5	Name of the lessee, Address, phone, email and fax number	Gujarat Mineral Development Ltd., Khanij Bhavan, 132 Ft Ring Road-Vastrapur, Ahemdabad-380052; Ph-(pr)(02834)282289 Email:gadhsisa_2@gmdcltd.com		
6	Village	Ratadia		
7	Taluka/Mandal	Mandvi		
8	District	Kutch		
9	Pin code	370465		
10	State	Gujarat		
11	Post office	Mota Ratadia		
12	Nearest police station	Gadhsisa		
13	Nearest Railway station	Bhuj		
14	Date of Grant of Mining Lease	19-1-1977		
15	Date of Execution	21-07-1977 for 20 Years.		
16	Date of opening of Mine	28-07-2007		
17	Date of first Renewal, if applicable and its period & expiry	22-02-2007 MCR/1574/G-14/7665/PART-I/CHH for the 20 Years WEF 19.1.1997 to 20Yeaars		
18	Date of second Renewal, if applicable and	16.03.2016 for second renewal. Lease expired As per MMDR		
10	its period & expiry	Amendment Act, 2015 extension of lease period is under process.		
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	16.03.2016		
20	Name of the Nominated Owner with Address, phone, email, fax & appointment	Shri Arunkumar Solanki, GMDC Ltd. "Khanij bhavan", 132 FT Ring Road, Vastrapur, Ahmadabad., Appointment- 24-06-2016		
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri S G Patel, Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445, Mobile- 9727792510, Email: gadhsisa@gmdcltd.com , Appointment- 01-11-2015		
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	S.R.Rathore [Mine Manager],GMDC, CB Project-Gadhsisa; Post-Gadhsisa; Taluka-Mandvi; Dist-Kutch [Gujarat] 370445;Contact:- 9727792510,Email: <u>gadhsisa 2@gmdcltd.com</u> ; <u>srrathore@gmdcltd.co.in</u> Appointment- 04-04-2011		
23	Name of the Mining Engineer, Qualification and total Exp. with Address, phone, email, fax number and date of appointment in mine	Shri S.R.Rathore, BE (mining Engg), Manager (Mines) Appointment- 27.6.2016		
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri DS Patel, MSc Geology, Sr Manager(Geology) Appointment- 24.4.2018		
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(657)/1996 MCCM(N) UDP Dated-09.6.1997		
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	684(4) (1)/MP/ (114)/2018 MDRD (N) GNR Dated-20-4-2018 for the period of 2018-19 to 2021-22.		
27	Mineral(s) granted in ML proved for mining	Bauxite		
28	Method of Mining(Opencast, Underground)	Opencast.		
29	Category (Fully Mechanised/ Manual)	A-Category		
	Captive/Non Captive	Non Captive & Joint venture with Gujarat Credo Minerals Ltd		

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining	-
Exploration	

110	oration			
SN	Item	Proposals (2018-19)	Actual work	Remarks
1a	Backlog of previous year	13 Boreholes of 20m depth	39 Core borehole of 5-	Copy of form J & K
		each is proposed as	19m depth each done in	is submitted to IBM
		earmarked. (2016-17)	2015-16 against 39	under provision of
		Not Proposed	borehole.	MCDR, 17 on 22.7.2016.
1b	Exploration over lease area for	It was proposed to drill 22	Initiatives taken for	Part of lease area
10	Geological axis 1 or 2.	exploratory borehole as	approval. Work will be start	is explored by
	Geological axis 1 of 2.	- ·	soon as reported.	trenches/ pits
		earmarked in Plate No.4		/boreholes etc.
1c	Exploration Agency &	39 Core borehole of 5-19m	Khanna & Associated	,
	Expenditure in lakh Rupees	depth each done in 2015-	544 m. Drilling done	
	during the year	16 against 39 proposed	which cost Rs. 319328/-	
1.1		borehole.	of 39 boreholes.	1 . 1
1d	Balance area to be explored to	The part of lease area is still rem for proposed exploration.	ains for exploration. Lessee ha	is been taken initiative
	bring Geological axis in 1 or 2			T (111) 0 · · ·
1e	Balance reserves as on 01.3.2018	The reserves & resources estima resources are 3.17MT	ted as on 01.04.2018 is 4.76M	T (111) & remaining
1f	General remarks of inspecting	NIL		
11	officer on geology, exploration.			
2.01	Development			
<u>2.0 1</u> SN	Item	Proposals (2018-19)	Actual work	Remarks
2a	Location of development w.r.t.	It was proposed to work in	Mine workings done	(Till Sept.18)
∠a	lease area	Pit No-1, 2, 3, 4, 5, 6, 7&8	partly in proposed pits	Lack of demand
	lease area	as earmarked in plate no. 5A.	1 1 1 1 1 0010	Lack of demand
2b	Separate benches in topsoil,	It was proposed to maintain	Topsoil is stacking	Topsoil & OB is
20	overburden and mineral (Rule 15)	separate benches in OB &	separately. No OB is	Removing
	Overburden and mineral (Rule 15)	mineral.	generated presently.	separately.
2c	Stripping ratio or ore to OB	1:0.0	1:0.0	1 5
	ratio			
2d	Quantity of topsoil generation in m3	2550 M ³	About 750M3 (900T)	
2e	Quantity of overburden generation in m3	Not Proposed	0	
2f General remarks of inspecting Lagging in production due to lack of demand. Duri				
21		mine representative to improve the aesthetic/general cleaning & level of		
21	officer on development of pit			
	officer on development of pit w.r.t. type of deposit etc.	mine/pit area.	8	
	officer on development of pit			
<u>3.0</u> SN	officer on development of pit w.r.t. type of deposit etc. Exploitation Item	mine/pit area. Proposals (2018-19)	Actual work	Remarks
<u>3.0</u>	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for	mine/pit area. Proposals (2018-19) It was proposed to work in	Actual work Mine workings done	
<u>3.0</u> SN	officer on development of pit w.r.t. type of deposit etc. Exploitation Item	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8	Actual work Mine workings done partly in proposed pits	
3.0 SN 3a	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A.	Actual work Mine workings done partly in proposed pits due to lagging in ROM.	Remarks
<u>3.0</u> SN	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8	Actual work Mine workings done partly in proposed pits	
3.0 SN 3a	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T	Actual work Mine workings done partly in proposed pits due to lagging in ROM.	Remarks
3.0 SN 3a	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A.	Actual work Mine workings done partly in proposed pits due to lagging in ROM.	Remarks
3.0 SN 3a 3b	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T	Remarks
3.0 SN 3a 3b 3c 3d	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T 90011 T 90011T	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T 5714.14T T 5714.14T T	Remarks
3.0 SN 3a 3b 3c	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation Grade of mineral reject	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T 90011 T 90011T Cut off grade-About	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T 5714.14T T 5714.14T T 5714.14T T Mineral rejects are being	Remarks
3.0 SN 3a 3b 3c 3d	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation Grade of mineral reject generation and threshold value declared	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T 90011 T 90011T Cut off grade-About 40%Al2O3 as per buyer's specification.	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T 5714.14T T 5714.14T T	Remarks
3.0 SN 3a 3b 3c 3d	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation Grade of mineral reject generation and threshold value	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T 90011 T 90011T Cut off grade-About 40%Al2O3 as per buyer's	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T 5714.14T T 5714.14T T 5714.14T T 5714.14T g 5714.14T Mineral rejects are being utilised by proper sizing & sorting & blending as per	Remarks
3.0 SN 3a 3b 3c 3d 3e	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation Grade of mineral reject generation and threshold value declared Quantity of sub-grade mineral	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T 90011 T 90011T Cut off grade-About 40%Al2O3 as per buyer's specification.	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T 5714.14T T 5714.14T T 5714.14T T Sortial rejects are being utilised by proper sizing & sorting & blending as per buyer's specification.	Remarks
3.0 SN 3a 3b 3c 3d 3e 3f	officer on development of pit w.r.t. type of deposit etc. Exploitation Item Number of pits proposed for production Quantity of ROM mineral production proposed Recovery of salable/usable mineral from ROM production Quantity of mineral reject generation Grade of mineral reject generation and threshold value declared Quantity of sub-grade mineral generation Grade of sub-grade mineral	mine/pit area. Proposals (2018-19) It was proposed to work in Pit No-1, 2, 3, 4, 5, 6, 7&8 as earmarked in plate no. 5A. 100013T 90011 T 90011 T Cut off grade-About 40%Al2O3 as per buyer's specification. Not Proposed	Actual work Mine workings done partly in proposed pits due to lagging in ROM. 5714.14T T 5714.14T T 5714.14T T 5714.14T T Mineral rejects are being utilised by proper sizing & sorting & blending as per buyer's specification. NIL	Remarks

	ROM			
3i	Any analysis or beneficiation study	Lab Analysis	Analysis done in house &	
	proposed & carried out for sub-		outside agency both.	
<u>.</u>	grade mineral and reject		A = 0 == 1 == == == :== f = =	
3ј	Provision of drilling & blasting in mineral benches	J/H Drilling & Blasting	As & when require for secondary blasting.	
3k	Provision of mining machineries	HEMM with Loader/JCB/	HEMM with Loader	
	in mineral benches	Rock breaker & Tipper	/JCB/ Rock breaker	
		Combination	&Tipper Combination	
31	Whether height of benches in OB	3.0 Meter	2.5-3.0 Meter	
	and mineral suitable for method of mining proposed in MP/SOM			
2	Total area covered	4.4011	T. (.1.)	
3m		4.49Ha area proposed in plan period.	Total excavated area is about 22.57 Ha	
	under excavation/pits	pian period.	(Cumulative)	
3n	Ore to OB ratio for the pit/mine	1:0.0	1: 0.0	
	during the year			
30	Total area put in use under	Pit-22.57 (reject-0.1, Others-	Total excavated area is	
	different heads at the end of	1.7)	about 22.57 Ha	
	year		(Cumulative)	
3р	Production of ROM mineral	Yr-2014-15=117310T	Yr-2014-15=53618T	
	during last five-year period, as	Yr-2015-16=108120T Yr-2016-17=109058T	Yr-2015-16=0T Yr-2016-17=76376T	
	applicable	Yr-2017-18= 0000NA	Yr-2017-18=36812T	
		Yr-2018-19=100013T	Yr-2018-19=5714.14T	
3q	General remarks of inspecting	Lagging in production due to lack		
	officer on method of mining.	representative to improve the aes	thetic/general cleaning & leve	l of mine/pit area.
	Solid Waste Management-D			
SN	Item	Proposals (2018-19)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposed	Doing as proposed	Till Sept.18
4b	Location of topsoil, OB &	It was proposed to separate OB	Deviated due to lack of	
	mineral reject dumps	& mineral rejects & blending.	demand/lagging in ROM.	
4c	Number of dumps within lease	Net analysis	NII	-
	area and outside lease area	Not proposed	NIL	
4d	Location of dumps w.r.t.	Not Proposed	NIL	
	ultimate pit limit (Rule 16)			
4e	Number of active & alive	Not Proposed	NIL	
	dumps			
4f	Number of dead dumps	Not Proposed	NIL	
4g	Number of dumps stabilised	Not Proposed	NIL	
4h	Whether Retaining wall or			
	garland drain all along dumps	Not Proposed	NIL	
	are there		250 0 1	
4i	Length of Retaining wall or	699 m fencing	270 m fencing	
4:	garland drain all along dump	Not Duran a 1	NI	
4j	Number of settling ponds	Not Proposed	NIL	
4k	Specific comments of inspecting officer	NIL		
50	Solid Waste Management-Ba	eckfilling		
<u>S.U</u> SN	Item	Proposals (2018-19)	Actual work	Remarks
5a	Status on part or full extraction of	Not Proposed	NIL	Till Sept.18
Ju	mineral from mined out area before starting backfilling	The Topolog		
5b	Area under backfilling of mined	Not Proposed	NIL	
	out area			
50	Concurrent use of topsoil for	Not Proposed	NIL	Top soil is utilising
5c		*	1	for plantation
5c	restoration or rehabilitation of			
5c	restoration or rehabilitation of mined out area (Rule 32)			purposes.

	rehabilitated (2018-19)	700 Plants	500 Plants	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Poor survival rate due to scarcity of water in surrounding area/low rainwater. However lessee has been developed plantation near mine office/backfilled pit area.		
	Progressive Mine Closure Plar			1
SN	Item	Proposals (2018-19)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly	Yes	Submitted for 2017-18.	Till Sept.18
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	Nil	Survival rate is low due to scarcity of water in surrounding
60	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	Nil	areas.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.5 Ha 700 Plants	0.5 Ha 680 Plants	Additional 150 planted near mine office area
бе	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Monitoring is being carried out as per IBM guidelines.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Poor survival rate due to scarcity of water in surrounding area/low rainwater.		
7.0	Mineral Conservation			
SN	Item	Proposals (2018-19)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100013T	5714.14T	Till Sept.18
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual Sorting	Manual Sizing & sorting	
7c	Different grade of mineral sorted out at mines	Yes	(i) PG (Al ₂ O ₃ ≥52%) (ii) <52%)(iii) Rejects size le	
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is utilising by proper blending, sizing & sorting as per demand /buyers requirement.		
8.0	Environment			
SN	Item	Proposals (2018-19)		
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed 4072 M ³	Directly Used For Plantation 750 M ³	
8b	Concurrent use or storage of topsoil	Proposed	Used For Plantation	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Done		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	NA		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	yes		
8f	Baseline information on existence of plantation & additional plantation done	Not Proposed	Good aesthetic near mine office		
8g	Survival rate	Not Proposed	About 60%		
8h	Water sprinkling on roads to control airborne dust	Yes	Yes		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are		During inspection, advised to mine representative to improve the aesthetic/general cleaning & level of mine/pit area.		
	Compliance of Rule 45				
S.N	Item	COMMENTS		Remarks	
	Status of submission of Online Monthly and Annual returns	M.R. online Submitted up to till date A.R. for year 2017-18 is submitted on 01.6.2018			
S.N	Item			Remarks	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri S R Rathore, ME Shri VK Sumers, (Geologist)	Sh. S R Rathore, ME WEF- 27.6.16 &. DS Patel, MSc Geology, WEF-24.4.2018	It was advised to Mine representative to file online return correctly &	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 21.7Ha Reclaimed area-0.86 Ha, Plantation-10Ha, Road & Infrastructure -15.3Ha	22.57 Ha & others		
9d	Scrutiny of Annual return on forestation	1000 Plants (30% Survival)	680 Plants (50%)2018-19 150 Mine office area	using costing & Ex Mine	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	NIL	Price as per IBM guidelines in	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S-13924.7T, P-280T, Disptch- 4969.88T, C/S-9234.89T (Cement Grade Chem-79461.0T (O/s & C/s)	Directed to use the correct Ex Mine Price/Cost of	future.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price- Rs 650/T &350 Cost of Production-Rs 713/T	Production as sale price published in GMDC site.		
9i	Scrutiny of Annual return on fixed assets	Given	Given	1	
9k	Scrutiny of Annual return on mining machineries	Excavator 200/Rock Breaker Dumper 17T,Loader/JCB	Excavator 200/Rock Breaker, Tipper 17T, Loader/JCB		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Mine was inspected for evaluation of Star Rating of mines. No significant violation observed presently.