INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

	Mine :	file No : RAJ/CHT/LST	-8		Mine code :	38RAJ09006
	(i)	Name of the Inspecting Officer and ID No.	g :	GQ21) DATA RAM GURJAR		
	(ii)	Designation	:	Sr. Asst. Contrl. Mines		
	(iii)	Accompaning mine Official with Designation	:	Sh. Yatendra Sharma, Mine	Manager & Sh.	Bhupendra Gan
	(iv)	Date of Inspection	:	28-FEB-22		
	(v)	Prev.inspection date	:	17-DEC-20		
		PA	RT-	I : GENERAL INFORMATION		
1.	(a)	Mine Name	:	ADITYA		
	(b)	Registration NO.	:	IBM/441/2011		
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest			. C(
2.		ess for espondance	:	ADITYA CEMENT WORKS POST-ADITYAPURAM,Sawa,Ama DISTT-CHITTORGARH(Raj.)	rpura,sindaudi	
3.	(d)	Lease Number Lease area Period of lease Date of Expiry	:	RAJ0394 760.69 50 28-APR-44		
4.	Miner	ral worked	:	LIMESTONE Ma	in	

5. Name and Address of th	e
Lessee :	Aditya Cement
	(Grasim Ind. Limited) Adityapuram,Sawa Shambhupura,Chittorgarh CHITTORGARH RAJASTHAN Phone:
	FAX :
Owner :	Kailash Chandra Jhanwar UltraTech Cement Limited Ahura Centre, A-WING 1st Floor Mahakali Caves Road Andheri Mumbai MUMBAI (SUBURBAN) MAHARASHTRA Phone: FAX :
Agent :	Vijay Kumar D. Mali UltraTech Cement Limited (Unit: Aditya Cement Works) Adityapuram, Distt- Chittorgarh CHITTORGARH RAJASTHAN Phone: 9826909505 FAX : 9826909505
Mining Engineer	
Name :	Shri Kamal Paliwal,Full Time
Qualification :	B E Mining FCC
Appointment/ : Termination date	
Mining Engineer	
Name :	Devendra Kumar Deshmukh,Full Time
Qualification :	BE(Mining)
Appointment/ : Termination date	14-DEC-21
Geologist	
Name :	P.S.MISHRA,Full Time
Qualification :	
Appointment/ : Termination date	
Geologist	
Name :	B.K.GANGAWAT,Full Time
Qualification :	M.SC.(GEOLOGY)
Appointment/ : Termination date	
Manager	
5	Naval Kishore Sharma
Qualification :	
Appointment/ : Termination date	15-DEC-11 13-DEC-20
Manager	

	Name	:	Yatendra Sharma	
	Qualification	:	BE(Mining)	
	Appointment/ Termination da		14-MAY-21	
	Manager			
	Name	:	M.Senthilkumar	
	Qualification	:	B Tech Mining	
	Appointment/ Termination da		14-DEC-20 14-MAY-21	
6.	Date of approval of Plan/Scheme of Mining		ning : Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme	25- 23-
			Mining Scheme rule 12 MCDR1988 Modif approved Mining Scheme	03-

Mining Scheme rule 12	MCDR1988	25-MAY-00
Modif.approved Mining	Scheme	23-SEP-04
Mining Scheme rule 12	MCDR1988	03-MAR-05
Modif.approved Mining	Scheme	28-NOV-05
Renewal under rule 24	MCR1960	20-NOV-13
Renewal under rule 24	MCR1960	20-NOV-13
MP modif under 17(3) M	ICR 2016	25-FEB-19
MP modif under 17(3) M	ICR 2016	10-JUL-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No proposal during the previous year 2019-20.	No backlog of previous year.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2020-21.	None	Nil
lc	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the year 2020-21.	None	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal of exploration during the year 2020-21.	None during the year 2020-21.	 (1) A per approved modification of review of mining plan, area under G1-687.092 hect., G2-22.95 hect. & G4-50.65 hect. (2) The lessee submitted draft modification in review of mining plan & proposal submitted during the year 2022-23 to concert entire G2 & G4 area into G1 level.
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	Balance reserves as on 01.04.2021 236.56 million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.
Deve	elopment :			
Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	Pit-01: 459275 E to 460225 E 2736590 N to 2737303 N Pit-02: 459385 E to 460467 E & 2735690 N to 2736255 N Pit-03: 459708E to 459813 E & 2734574 N to 2734947 N and 459874.743 E	Pit-01: 459275 E to 460225 E 2736590 N to 2737303 N Pit-02: 459385 E to 460467 E & 2735690 N to 2736255 N Pit-03: 459708E to 459813 E & 2734574 N to 2734947 N and 459874.743 E to 460609.379 E & 2733203.621 N to	As per proposal
----	--	--	---	-----------------

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal of Top	Top Soil, OB/waste and Mineral has been removed separately.	Nil
2c	Stripping ratio or ore to OB ratio	2020-21: 1:0.28	2020-21: 1:0.15	Cum:cum
2d	Quantity of topsoil generation in m3	2020-21: 131875	2020-21: 9600	Nil
2e	Quantity of overburden generation in m3	2020-21: 1176522	2020-21: 492558.3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Currently mine development was going as per approved proposal.

Exploitation:

No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2020-21: 4	2020-21: 3	
3b	Quantity of ROM mineral production proposed	2020-21: 1060000 tonnes	2020-21: 8274385 tonnes	Nil
3с	Recovery of sailable/usable mineral from ROM production	2020-21: 1000000 tonnes	2020-21: 7962244 tonnes	Nil
3d	Quantity of mineral reject generation	2020-21: 600000 tonnes	2020-21: 312141	Screen Reject
3e	Grade of mineral rejects generation and threshold value declared.	<34%CaO	25.20 to 33.10% of CaO	Clay fraction separated from Limestone by mechanical screening
3f	Quantity of sub grade mineral generation.	No Proposal of Sub-grade generation.	Sub-grade has not been generated during the year.	NIL.
3g	Grade of sub grade mineral generation		Not applicable as no Sub-grade has been generated.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Crushing and screen through mechanical means.	Crushing and screen through mechanical means has been observed	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drill size 115mm and blasting in Burden &spacing of 4- 5m &6-7m respectively	Drilling and blasting has been carried out as per proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Drill machine, Backhoe Hyd. Excavators, Tippers, Dozer, Water Tanker etc.	Mining Machinery has been deployed as per proposal.	NIL.

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches have been proposed between 9 to 11 mts.	Yes suitable for the type of deposit and benches have been maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	At the end of plan period i.e. 2023-24 area under excavation will be 274.627 Ha.	Area under excavation/mining 215.980 Ha. at the end of year 2020-21.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2020-21: 1:0.28	2020-21: 1:0.15	Cum:cum
30	Total area put in use under different heads at the end of year	Total area put to use at the end of plan period is 376.958 excluding plantation area	300.202 Ha. area at the end of year 2020-21 (Excluding plantation area)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016- 17:10869565 T 2017- 18:10869565 T 2018- 19:10869565 T 2019-20: 12425560 T 2020-21: 10600000 T 2021-22: 10600000 T	2016-17: 7991770 T 2017-18: 9683358 T 2018-19: 8897941 T 2019-20: 7330044 T 2020-21: 8274385 T 2021-22: 8273843 T(Till Jan 2022)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Opencast method of mining has been proposed & Open cast Mining method is being practiced.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	and mineral	dumping of the top soil,	Separate dumping of the top soil, OB/waste and Mineral reject has been observed and carried out.	Nil

4b Location of Dumping of top soil, OB Nil Top soiltopsoil, OB and 2735807N to & mineral reeject is mineral reject 2736084N & being carried out at dumps 459105E to designated place as per 459232E proposal. OB Dump- Dump-G 2734623N to 2735157N & 460641E to 461061E Dump-D 460612.892E to 460836.695 E & 2735655.961 N to 2736071.229 N Screen Dump Dump-E 2735455.961 N to 735611.469 N & 460668.413 Е 460972.262 Ε Number of dumps Nil 4c Seven dumps Six dumps inside lease within lease inside lease area area and outside area OB Dumps-Three Nos., of lease area OB Dumps-Three Screen Reject-Four Dumps Nos., Screen Reject-Four Dumps 4d Location of Outside Outside ultimate pit Nil dumps w.r.t. limit ultimate pit ultimate pit limit limit (Rule 16) 4e Number of active Two OB dump & Two OB dump & Two screen Nil and alive dumps. Two screen reject dumps are active reject dumps are active 4f Number of dead 03 03 Nil dumps. Number of dumps 01 01 Nil 4g established. 4h Whether Yes proposal Graland drain made During the year Retaining wall given. during the year 2020-2020-21, 290m retaining wall has or garland drain 21as per proposal. all along dumps not been made as Retaing wall not made as per proosal during the are there. per proposal, year 2020-21. hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 05.04.2022 .

4i	Length of Retaining wall or garland drain all along dumps		made	mtr.garland along dumps 2020-21	During the year 2020-21, 290m retaining wall has not been made as per proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 05.04.2022 .
4j	Number of settling ponds	No proposal	None		Nil
4k	Specific comments of inspecting officer on waste dump management				During the year 2020-21, 290m retaining wall has not been made as per proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 05.04.2022 .

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	backfilling during the year as no pit area is fully	Not applicable as no proposal.	Nil
5b	Area under backfilling of mined out area	No proposal of backfilling during the year.	Not applicable as no proposal.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	that generated top soil will	As per proposal	Nil
5d	Total area fully reclaimed and rehabilitated	full	No area is matured for reclamation and rehabilitation.	Nil

5e General remarks of inspecting officers on backfilling and reclamation etc. No proposal of backfilling and reclamation nor backfilling has been observed. No pit area is matured for backfilling.

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2020-21 has not been submitted.	A yearly report to be submitted before 1st July of every year setting forth the extent of protective and rehabilitation works carried out as envisaged in the approved progressive mine closure plan has not been submitted to this office for the year 2020-21, hence violation letter of Rule 26(2) of MCDR 2017 issued vide letter dated 05.04.2022.
6b	Area available for rehabilitation (ha) .	1.0 hect.	1.5 hect.	Nil
6c	afforestation done (ha).	1.0 hect.	1.5 hect.	However during the year 2020-21, plantation has not been carried out on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 05.04.2022.
6d	No. of saplings planted during the year	2020-21: 2000 nos.	2020-21: 4214 nos.	Nil
бе	Cumulative no .of plants	Not specified	211214 nos. plantation done in within lease area upto 220-21.	Nil

Progressive Mine Clousre Plan:

dated 05.04.2022.

6f Any other method Other than Plantation has been NIL. plantation, no carried out as per of rehabilitation specific proposal. proposal of any other method of rehabilitation Nil бq Cost incurred on Rs. 600000 Rs. 1038600 watch and care during the year 6h Compliance on No proposal of Not applicable as no NIL. reclamation and backfilling. proposal of backfilling. rehabilitation by backfilling (i) Voids available for backfilling (Lx ВхD 6i Compliance on No proposal of Not applicable as no NIL. reclamation and backfilling. proposal of backfilling. rehabilitation by backfilling (ii) Voids filled by waste / tailings бj Compliance on No proposal. Not applicable as no Nil reclamation and proposal. rehabilitation by backfilling (iii)Afforestati on on backfilled area 6k Compliance on Not applicable however Nil No proposal reclamation and making water rain water accumulation rehabilitation reservoir. was observed at pit by backfilling bottom. (iv) Rehabilitation by making water reservoir 61 Compliance on No any other Not applicable as no Nil reclamation and specific proposal. rehabilitation proposal. by backfilling (v)any other specific means. бm Compliance of 1.0 hect. area 1.5 hect. area However during the rehabilitation year 2020-21, of waste land plantation has not within lease been carried out (i)afforestation on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter

бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 hect by plantation	1.5 hect by plantation	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation.	Nil
бр	Compliance of environmental monitoring (core zone and buffer zone)	Regular Monitoring of environment parameters.	Environment monitoring has been carried out.	Nil
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			A yearly report to be submitted before 1st July of every year setting forth the extent of protective and rehabilitation works carried out as envisaged in the approved progressive mine closure plan has not been submitted to this office for the year 2020-21, hence violation letter of Rule 26(2) of MCDR 2017 issued vide letter dated 05.04.2022.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposal given.	No proposal of grade wise sorting as entire ROM is useable after separating screen reject through crushing and screening.	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal	None	Nil

7c	Different grade of mineral sorted out at mines.	No gradewise sorting proposal.	None	Nil
7d	Any beneficiation process at mines	any	Crushing and screening has been observed.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issues observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	separate	Top soil has been removed separately.	NIL.
8b	Concurrent use or storage of topsoil	In plantation work.	As per proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposal given	Yes as per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal of use of overburden/ waste rock for restoring the land to its original use.	Overburden, waste rock and Rejects are dumped at earmarked location.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation in waste/barren land proposed.	As per proposal	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 nos. sapling proposed during the year 2020-21.	4214 sapling planted during the year 2020-21.	Nil
8g	Survival rate	Not specified	82.15%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling has been observed during the mine inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	of MCDR,	Monthly and annual returns have been submitted for reporting year timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer, Geologist, and Manager.	Mining engineer and Geologist are appointed as per information furnished.	Nil

9c Scrutiny of The land use pattern Current NIL. Annual return on Working furnished in the return land use pattern 215.80. appears to be correct. for area under Reclaimed/Reha pits, reclaimed bilitated 0.55 area, dumps etc. Ha. Used for Waste Disposal (Dumps) 42.85 Ha. Occupied by plant, building residential, welfare building and road 36.910 Ha. Topsoil& Mineral storage 3.910 Plantation 1.5 Ha 9d Scrutiny of Nos plantation The information Nil furnished is found to Annual return on 4214 nos afforestation Survival rate correct. 82.15%. 9e Scrutiny of Mineral reject The furnished Nil Annual return on quantity of information in annual mineral reject 312141 Т return is actually generation reported. screen reject & seems to (Grade and be correct. quantity) 9f Scrutiny of ROM and graded Found to be in order. Nil Annual return on stock quantity ROM stock and/or furnished is graded ore NIL. Scrutiny of Captive Use. 9g No sale of the mineral Nil Annual return on Ex. Mine Price as it is a captive mine. sale value, Ex. & Production Mine price and cost is Rs. production cost 256.56 per tonne. 9h The value of Scrutiny of Appears to be correct. Nil Annual return on fixed asset fixed assets furnished is Rs. 1203759350 9k Scrutiny of Shovel, Dumpers Found correct. Nil Annual return on ,Wheel loader,Dozer,R mining machineries oad roller, Motorgrader etc.

Details of violations observed during current inspection and compliance position of violation pointed out							
	Violation observed				Show couse position		
Rule NO.		Issued on	Compliance o	n Rule	NO.	Issued on Compliance on	
MCDR17	Rule 11(1)	05-APR-22					
MCDR17	Rule 26(2)	05-APR-22					

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines