INDIAN BUREAU OF MINES

MDR,DIVISION

MCDR INSPECTION RPORT

Regional office, Ajmer

A)	Mine file No.	RAJ/PAL-32/LST-01
B)	Name of inspecting officer,	G C Meena, DCOM, M006.
,	Designation &ID	
C)	Accompanying mine official with Designation.	Shri M.K.Malvi,General Manager Mines.
D)	Date of inspection	19/09/2015
E)	Earlier two dates of inspections	12/11/2014 & 19/03/2015
	Part 1 Genera	al Information
S. N.	Particulars	Details
1	Name of the Mine	Ras-I Limestone Mine
2.	Total lease area(Ha) with break up of Non forest & forest Land	183.53 Ha, Non Forest land.
3.	Mine Code	38RAJ21009
4.	IBM Registration Number under rule 45 of MCDR 1988.	IBM/447/38RAJ21009
5.	Name of Lessee, address, phone, email and fax Number	M/SAmbuja Cements Ltd. Village &Post-Rabriyawas, DisttPali.(Rajasthan)
6.	Village	Rabriyawas.
7.	Taluka/ Mandal	Jaitaran
8.	District	Pali
9.	Pin Code	306709
10	State	Rajasthan
11.	Post Office	Rabriyawas.
12.	Nearest Police Station	Ras
13.	Nearest Railway station	Beawar
14.	Date of grant of mining lease	NA
15.	Date of Execution	25/11/1997
16.	Date of opening of mine	25/11/1997
17.	Date of First renewal, if applicable and its period & expiry	25/11/1997 – 24/11/2047
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.	Not applicable
20.	Name of the Nominated Owner with address, phone, email, fax number & date of appointment	Mr Ajay Kumar,M/S Ambuja Cements Ltd. ElegentBussiness Park, MIDC Cross Road Boff Andheri Kurla Road Mumbai, Andheri East-400059, Maharashtra.Phone-02240667000,Fax No.02266167711,email-vijaykumar@ambujacement.com,Date of appointment-01/08/2013.
21.	Name of Mine Agent with address, Phone No, email, Fax Number and Date of appointment	Shri M.K.Malvi, M/S Ambuja Cements Ltd. Village &Post-Rabriyawas, DisttPali.(Rajasthan)-306709,Phone-02939- 288011-17,EPABX-9001090711to13,,Fax

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		No.02939-28803,4250,email-
		mnoj.malvi@ambujacement.com.Date of
		appointment17/11/2007
22.	Name of Mine Manager with address,	Shri Chandra Shekhar Dadheech (Mines
	Phone No, email, Fax Number and	manager) ,M/S Ambuja Cements Ltd.
	Date of appointment	Village &Post-Rabriyawas,
		DisttPali.(Rajasthan) -306709,Phone-02939-
		288030,EPABX-9829916327,,Fax No.02939-
		288030,
23.	Name of Mining Engineer	Not appointment in mines
	Qualification and total experience	
	with address, Phone No, email, Fax	
	Number and Date of appointment	
24.	Whether Geologist and Mining	Yes Appointed.
	Engineer appointed in mines satisfies	
	rule 42 & carrying out their duties as	
	per rule 43 & 44.	
25.	Date of approval of Mining plan/	19/12/2013
	Modified Mining Plan with five year	
	period and specific condition in	
	approval letter if any.	
26.	Date of approval of scheme of mining/	
	modified scheme of mining with five	
	year period and specific condition in	
	approval letter, if any.	
27.	Mineral(s) granted in lease and proved	Limestone
	for mining.	
28.	Method of Mining (Opencast/	Opencast
	underground)	
29.	Category (Fully Mechanised, others or	Fully mechanized mines (category A).
	manual)	
30.	Captive/ Non Captive	Captive

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

1.0 Exploration:

S.N.	Item	Proposals	Actual Work	Remarks
la	Backlog of previous year (2013-14)	34	38	As per Mining plan II-Phase exploration has been completed on 1.09.2014. Total 57 borehole planned during 2012-2015. Out of that 23 boreholes have been drilled during 2012-13.
1b	Exploration over lease area for geological	57	61	04 additional boreholes

	axis 1 or 2			drilled as planned/given in mine plan.
1c	Exploration Agency & expenditure in lakh Rupees during the year 2013-14	As above.	Not applicable.	
1d	Balance area to be explored to bring geological axis in 1 or 2	Not specified.	NA	Borehole are drilled on 100x200m grid interval. However few of holes have been drilled on 100x100 grid pattern.
1e	Balance Reserves as on 1.04.2013	96.33	97.085*	Threshold value for limestone reserves is considered cao>=34-52. *Present reserves is up to Feb 2015.
1 f	General Remarks of Inspecting officer on geology, Exploration etc.		mine.The reserves for d already been establis	

2.0 Development

SN	Item	Proposals	Actual Work	Remarks
2a	Location of	E5500-E5700/N1100-	E5500-	Development
	development w.r.t.	N21400	E5700/N1100-	work is within
	Lease Area		N21400	the limit as
				proposed in
				mine plan.
2b	Separate Benches in	NA	NA	As such there
	top soil, Overburden			is no
	& in Mineral(Rule			overburden/top
	15)			soil
2c	Stripping Ratio or	1:0.33	About 1:0.036	Inter burden
	Ore to OB ratio			
2d	Quantity of Top Soil	NA	NA	There is no
	Generation in m3			generation of
				top soil.
2e	Quantity of	74400	9344	The targeted
	overburden			waste has not
	generation in m3			been removed

2f	General remarks of	The targeted quantity of waste material has not been extracted
	Inspecting officer	from the pits thereby less development work.
	on development of	
	pit w.r.t type of	
	deposit.	

3.0 Exploitation

SN	Item	Proposals	Actual Work	Remarks
3a	Number of Pits Proposed for Production.	In two pits.	Being done as proposed	
3b	Quantity of ROM mineral production proposed	No such proposal	Being done as proposed	
3c	Recovery of Salable/usable mineral from ROM production	recovery of 90%.	230080MT During 2014-15	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of Mineral reject generation and threshold value declared.	No such proposal	Not applicable.	
3f	Quantity of Subgrade Mineral Generation	Nil	Nil	
3g	Grade of Subgrade mineral Generation	No Subgrade generation envisaged.	No Subgrade generated.	
3h	Manual/ Mechanised Method adopted for segregating from ROM.	Category-A, Mechanized.	Category-A, Mechanized.	
3i	Any analysis or beneficiation study proposed & carried out for Subgrade Mineral and reject.	No proposal	None	
3j	Provision of Drilling & Blasting in Mineral Benches	No proposal	115mm dia DTH drilling.	
3k	Provisions of mining machinery in mineral	Mechanized with excavator loader&	Mechanized with excavator	

	benches	4	100 400 %
	benches	dumpers.	loader&
			dumpers.
31	Whether height of	No such proposal	The proposed
	benches in overburden		site of working is
	& in Mineral suitable		devoid OB so
	for method of mining		benches are
	proposed in MP/SOM		formed mineral
			bearing zone.
3m	Total area covered	96hact.	In all about96
	under excavation/pits.		hact. Area
			covered under
			pit/excavation so
			far.
3n	Ore to OB ratio for	1:0.83	About 1:0.57
	the pit/mine during		
	the year		
30	Total Area put in use	No specific year wise	For the 2013-14
	under different heads	proposal.	under pit 96hact,
	at the end of the year	Fropozoo	waste Dumping-
			63.52hect, Tar
			road-
			0.25hect.And
			Green belt-
			95.95hect.
3p	Production of ROM	2010-11-	2010-11-2.66
JP	mineral during last	3.61millionsTons,	million Tons,
	five years period, as	2011-12- 2.79 million	2011-12-
	applicable	Tons,	2.08millionTons,
	applicable	2012-13-3.01 million	2012-13-
		Tons,	2.54MillionTons,
		2013-14-3.37 million	2.347/111101110115,
		Tons.	million Tons.
			2014-15 2.30
		τ, ·	million Tons.
3q	General remarks of	It is open cast as per min	ning scheme.
	inspecting officer on		
	method of mining		

4.0 Solid Waste Management Dumping

SN	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of top soil, OB &	Being done.	Being Done.	
	Mineral Reject (Rule 32, 33)			
4b	Location of top soil, OB & Mineral Reject dumps.	D1aN4586 to4267, E4735toE4960, D1b- N3596 toN3336; E4604toE4735; D1c- N4076toN3631; E5810toE6031; Dpg- N5636toN5732; E4583toE4981.	As per the proposal	

4c	Number of dumps within lease area and outside lease area	19 dumps within lease area	19 dumps within lease area	
4d	Location of dumps w.r.t. Ultimate Pit Limit	Located both Outside & inside UPL	As per approved mining scheme.	
4e	Number of Active & alive Dumps	04	19	
4f	Number of Dead Dumps	02	07	
4g	Number of Dumps Stabilized	No proposal.	Stabilization was not observed during inspection.	
4h	Whether retaining wall or garland drain all along dumps are there	Yes	No retaining wall and construction of garland drain was observed during site visit.	Pointed in violation letter.
4i	Length of retaining wall or garland drain all along the dump	No proposal.	Nil.	
4j	Number of settling Ponds	None	Not Applicable	
4k	Specific Comments of Inspecting officer on waste dump Management.	The general housekeepin	g of dump is satisfactory.	

5.0 Solid Waste Management Backfilling

SN	Item	Proposals	Actual Work	Remarks
5a	Status on Part or Full extraction of Mineral from mined out area before starting backfilling	No such proposal.	Not applicable.	Mineral is yet to be extracted up to full thickness.
5b	Area Under backfilling of Mined out area	As above	As above.	
5c	Concurrent Use of Top Soil for restoration or rehabilitation(Rule 32)	To be used for plantation	Using for plantation.	
5d	Total Area fully reclaimed & rehabilitated	No specific proposal.	Nil.	
5e	General Remarks of Inspecting Officer on backfilling, Reclamation	Back filling and reclam approve SOM.	ation has not been pr	oposed in the

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual Work	Remarks
6a	Whether annual report on	No such	Annual Report to	
	PMCP submitted on time &	proposal in	beSubmitted.	
	correctly Rule 23E(2). Details	approved		
	should be given in the format	mining scheme.		
	as given in Annexure 20.			
6b	Management of Worked/			
	mined out benches			
	i) Area available for	Not specified	Not applicable	
	rehabilitation (ha)			
	ii) Afforestation done(ha)	5.0ha for2014- 15	0.5.0hact.	
	iii) No of Sanlings planted	2500	16200	
	iii) No of Saplings planted	2300	10200	
	during the year iv) Cumulative no of plants	Not specified	183872in lease	
	(10) Cumulative no of plants	Not specifica	area.	
	v) Any specific method of	Not specified	Not applicable	
	Rehabilitation	Tvot specified	1 Not applicable	
	vi) Cost incurred on watch &	Not specified	Not applicable	
	care during the year	1 vot specified	1 tot applicable	
6c	Compliance on reclamation	No such	Not applicable.	
	and rehabilitation by	proposal for the	l second	
	Backfilling	year2013-14.		
	i)Voids available for	As stated above	As stated above	
	backfilling (LXBXD)			
	ii)Voids filled by	No such	As stated above	
	waste/tailings	proposal for the		
		year2013-14.		
	iii)Afforestation on backfilled	No proposal.	Nil	
	area			
	iv)Rehabilitation by making	Not specified	Not applicable	
	Water reservoir			
	v)Any other specific Means	None	Nil	
6d	Compliance of Rehabilitation	No such	Nil	
	of Waste land within Lease	proposal	1.0000 11	
	i) Afforestation	2500 saplings.	16200saplings	
	ii) Area Rehabilitated	No specified	Not applicable.	
		proposals in the		
		approved		
) M. (1 1 C	Mining Scheme.	Dl4-4	
	iii) Method of	By Plantation	Plantation	
60	rehabilitation Compliance of	As nor EC %	As nor EC &	
6e	Compliance of Environmental Manitoring	As per EC & Consent	As per EC & Consent	
	Environmental Monitoring	conditions.	conditions.	
6f	(Core & Buffer Zone) General Remarks of		·	as to bo
01	Inspecting Officer on PMCP	carried out in pha	ting of waste dumps h	ias to be
	compliance & progressive	carried out iii pha	oc mannet.	
	closure operations.			
	ciosure operations.			

7.0 Mineral Conservation:

SN	Item	Proposals	Actual Work	Remarks			
7a	ROM Mineral dispatch or	ROM Mineral	ROM				
	grade-wise sorting within	dispatch to	Crushed&supplied				
	lease area(2013-14)	Cement plant	to Cement Plant.				
7b	Method of grade-wise sorting	As stated above.	ROM is directly				
	i.e. Manual or Mechanical		supplied to cement				
			plant.				
7c	Different Grade of mineral	Only Cement	Not applicable.				
	sorted out at mines	grade.					
7d	Any beneficiation process at	No proposal	Not applicable				
	mines						
7e	General remarks of	The recovery of usable grade may be considered satiafactory.					
	Inspecting officer on mineral						
	conservation & beneficiation	peneficiation					
	issues.						

8.0 Environment:

SN	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of top soil(Rule 32)	No top Soil& no proposal	Not applicable.	
8b	Concurrent use or storage of top soil	No Top soil exist	Not applicable.	
8c	Separate dumps for Overburden, Waste rock, rejects & fines (Rule 33)	Separate dumping proposed	Being Done.	
8d	Use of overburden, waste rock, Rejects and fines dumps for restoring the land to its original use(2013-14)	Backfilling is not proposed at present in approved SOM.	Not applicable.	
8e	Phased Restoration, reclamation and rehabilitation of lands affected by mining operations (pits, Dumps etc.)	Plantation.	Being Done.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation of 2500trees per year proposed.	In all about 16200 trees are planted in the area	
8g	Survival rate	No such proposal	Not available.	
8h	Water sprinkling on roads to control airborne dust	No proposal in approved Mining Scheme.	Water sprinkling on roads to control airborne dust is being done.	
8i	General Remarks of inspecting officer on aesthetic beauty in and	It is good except de		

around mines area.	
around mines area.	

9.0 Compliance of Rule 45

SN	Item	Comments	Remarks	
9a	Status of submission of	M.R.&A.R submitt		
	Monthly and annual returns			
SN	Item	Details given in	Observation of	Remarks
		A.R.	I/Officer	
9b	Scrutiny of Annual return	Yes	OK	
	for information on Mining			
	Engineer, Geologist and			
	Manager			
9c	Scrutiny of annual return on	Yes	Found OK	
	annual return on land use			
	pattern for area under pits,			
	reclaimed area, dumps etc.			
9d	Scrutiny of annual return on	Yes	Found OK	
	afforestation			
9e	Scrutiny of annual return on	Yes	Found OK	
	Mineral reject generation			
	(Grade & Quantity)			
9f	Scrutiny of annual return on	Yes	Found OK	
	ROM stock and/or graded			
	ore			
9g	Scrutiny of annual return on	Yes	Found OK	
	sale value, Ex Mine Price &			
	production cost			
9i	Scrutiny of annual return on	Yes	Found OK	
	fixed assets			
9k	Scrutiny of annual return on	Yes	Found OK	
	Mining Machineries			

]	10).	T	here	e are	no	ou	tst	ano	dıng	V10	lat	ion	S.

Date-Ajmer.

(G.C.Meena)

DCOM,

Indian Bureau of Mines, Ajmer