

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/11/BNG

Mine code : 38KAR10009

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI. Toshiniwal, GM(Mines)
Official with
Designation
- (iv) Date of Inspection : 13/10/2015
- (v) Prev.inspection date : 11/02/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAJASHREE CEMENT**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : GULBARGA
- Village : ADITYANAGAR
- Taluka : SEDEM
- Post office : MALKHED ROAD
- Pin Code :
- FAX No. : 08441 - 288277
- E-mail : sounik.chakrabarti@adityab:
- Phone : 08441-288277,288248
- (f) **Police Station** : MALKHED
- (g) **First opening date** : 04/08/1981
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : ULTRATECH CEMENT LTD,
AHURA CENTRE 1st FLOOR, MAHAKALI CAVES RD,
ANDHERI (E) MUMBAI 400093
3. (a) **Lease Number** : KAR0085
- (b) **Lease area** : 733.71
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 03/08/2021
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : RAJASHREE CEMENTS LTD
 ADITYANAGAR, MALKHED ROAD,
 GULBARGA, GULBARGA
 KARNATAKA
 Phone:08474-306166,08441-687221
 FAX :08474-306285,08441-687229,687225,687236

Owner : V.T.MOORTHY
 ABMCL OFFICE OXFORD CENTER
 IST FLOOR 66 SIR
 C.P.RAMASWAMY ROAD ALWARPET
 CHENNAI CHENNAI CITY TAMIL
 NADU
 Phone:
 FAX :

Agent : SOWMIC CHAKRABARTHY
 GULBARGA KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : MANISH TOSHNIWAL,Full Time
 Qualification : B.E.MINING
 Appointment/ :
 Termination date

Manager

Name : G.JAYAVELU
 Qualification : B.E MINING, FCC
 Appointment/ : 16/12/2010
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	26/04/1990
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	02/08/1995
	:	Renewal under rule 22 MCR1960	19/10/2000
	:	Mining Scheme rule 12 MCDR1988	19/05/2006
	:	Mining Scheme rule 12 MCDR1988	29/07/2011

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	as per report submitted by the lessee company.
1b	Exploration over lease area for geological axis 1 or 2	axis-1	axis-1	nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Synergy Geotech, Nagpur, 66.66 lakhs	M/s Synergy Geotech, Nagpur, 72.90 lakhs	as reported by the lessee company.
1d	Balance area to be explored to bring Geological axis in 1 or 2	235.57 ha	268.00 ha	total; area is 733.82 ha,
1e	Balance reserve as on 01/04/20	394.73 million tons	400.11 million tons.	as reported in the report.
1f	General remarks of inspecting officers on geology, exploration etc	none	Deposits is homogeneous and exploration reported in the data sheet, but exploration indicated in the data sheet & the field it varies.	Variation in the field observation, though core boxes are seen in the core chamber, but while locating in the field it is not seen as much as reported.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	top soil development(E, W & S), with I-EW, II-EW, IIA-S, III-EWS, IV-ES, V-ES , VIA-ES, & VIB-E(732809E TO 732896E), &(1895085N TO 1895062E.)AND 731997E TO 732113E & 1894860N TO 1894860N	From the M1 area, on the NNW part of the, main developemnt & production is going on, wherein, mainly w.r.t. that block(part), it is east & west and also on the northern part, developemnt & production is in progress.	The mining development for both top soil & the ore developemnt were found to be scientific and systematic, mainly because of homogenoeus deposits.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed to keep separately.	Accordingly it is being followed.	Yes it is being followed systematically.
2c	Stripping ratio or ore to OB ratio	1:0.06	1:0.03	almost similar, with slight difference.
2d	Quantity of topsoil generation in m3	466673 in m3	146945 m3	possibly varies in depth of the top soil cover.
2e	Quantity of overburden generation in m3	Nil	Nil	OB is only top black cotton soil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	yes proposed.	proposed and actual development is very satisfactory.	very systematic and scientific.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one only, majority in the middle portion of the ML area & partly in the western limb.	Though the production is in progress in the middle of the pit, in addition NNW face is also in production. Besides, on the eastern side.	Production limit is not restricted as per the proposals.
3b	Quantity of ROM mineral production proposed	11.02 Million tons.	6.42 Million tons.	Production is not raised due to low demand from the market.
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	yes complete production is saleable.
3d	Quantity of mineral reject generation	NIL	NIL	No MR generated as such, since all the materials are utilized.
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	not declared due to homogeneous limestone deposits.
3f	Quantity of sub grade mineral generation.	nil	nil	nil.

3g	Grade of sub grade mineral generation	NA	NA	nil
3h	Manual / Mechanised method adopted for segregating from ROM	NA	nil	nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nA	Nil	nil
3j	Provision of drilling and blasting in mineral benches	yes proposed	Atlascopco drill machine with 150mm dia. used for drilling blast holes	yes the above said machine is being used for drilling in the workinf faces.
3k	Provision of mining machineries in mineral benches	drill machine of atlascopco, hydraulic excavator, dumpers, water tanker.	yes above machine are proposed and deployed in the mining in mineral benches.	yes same is being worked in the mine for top soil(black cotton) & removal of limestone.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	12m height & 30m minimum width is proposed.	During the field inspection, it was observed, that, the same method of benches were developed in the respective workings.	yes, the mine is working with suitable bench height & width.
3m	Total area covered under excavation/pits	131.45 ha at the starting & in addition 54.55 ha for the scheme period.	Yes, as per the proposals, it is being followed, as on date it is 152 ha. 31/3/2015.	yes it is being followed as witnessed during the inspections.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06	1:0.03	same as above
3o	Total area put in use under different heads at the end of year	Excavation=175 ha, Topsoil=33.88 ha, infrastructure =1ha, Roads=2.25ha, safety zone=12.26 & water reservoir=4.6 ha.	Excavation=152ha, Topsoil=23.89ha, infrastructure=1ha, Roads=2.ha, safety zone=10 & water reservoir=4.6 ha.	same as above.

3p	Production of ROM mineral during the last five year period as applicable	2010-11=6.73, 2011-12=6.68, 2012-13=9.55, 2013-14=6.97, 2014-15=11.02, 2015-16=13.12.(all in Million tonnes.)	2010-11=5.46, 2011-12=6.29, 2012-13=6.16, 2013-14=6.20, 2014-15=6.42, 2015-16=3.70.(all in Million tonnes.) as on 12/10/2015.	The production is not increased due to less demand in the market.
3q	General remarks of inspecting officers on method of mining etc.	Yes proposed method is very much satisfactory.	yes it is being followed.	But the proposed area of workings are not restricted.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping of top soil all along the ML boundary	yes dumped along the boundary	yes it is followed.
4b	Location of topsoil, OB and mineral reject dumps	South side along the lease	same as south side of the lease.	yes same is being followed in the field.
4c	Number of dumps within lease area and outside of lease area	Single dump along the lease boundary	same single bund top soil is being dumped.	yes same is being followed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern boundary of ML area	Same in the ML area on the southern side.	As above, located on the southern side.
4e	Number of active and alive dumps.	one only.	one only.	as proposed one dump is in existance.
4f	Number of dead dumps.	one ony	one only.	same one only is dead dump.
4g	Number of dumps established.	one dump stabilized, and continued.	same one dump of top soil and continued, but in between broken and separeted.	single dump is continued, in between discontinuity.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes provision made for garland drain made in the mine for 3200m.	3000m made in the mine.	yes observed during the mine.

4i	Length of Retaining wall or garland drain all along dumps	3200m	3000m	yes it is observed in the mine.
4j	Number of settling ponds	2 nos.	2 nos.	yes two numbers present in the mine.
4k	Specific comments of inspecting officer on waste dump management	yes, proposal for top soil, which is Black cotton soil.	OB waste is black cotton soil.	The excavated materials is dumped systematically.

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.	No proposals	nil	nil
5b	Area under backfilling of mined out area	Nil	Nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such area is available/matured.	nil	nil
5d	Total area fully reclaimed and rehabilitated	nil	nil	nil, execept on the top of the top soil dump, plantations were made.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area matured for back filling & for reclamation.	Nil	nil.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes submitted, on time corectly.	yes submitted as per the available informations.	yes, the lessee company submitted.
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	nil	nil	nil
6d	No. of saplings planted during the year	nil	nil	nil
6e	Cumulative no .of plants	nil	nil	nil
6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	nil	nil	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil, no proposal as such.	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	nil	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	Partly reservoir is being developed in the mine pit itself.	On temporarily water reservoir is developed inside the mine pit.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	no proposal as such.	plantation is being done on the top soil dump/ bund. 2014-15=13500 nos. in 7.23 ha.	Plantation ar being done on the top soil dump along the ML area boundary.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	7.23 ha	as reported above.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal as such	On the ML area boundary on the dump/ bund only plantations are being done.	No other than the above one.
6p	Compliance of environmental monitoring (core zone and buffer zone)	it is given seasonal monitoring is being done.	Though it is submitted , but the party not submitted the report.	Based on that, violation may be issued.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Though it is stated that the party submitted, but in the office, only part of the report is reced.	Though it is stated that the party submitted, but in the office, only part of the report is reced. Need to be checked and issued violations.	As above.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Minerals are crushed and sent to the plant.	No sorting is done in the mine or any other place, before it is send to the plant.	yes no sorting, directly, the crushed materials is being sent.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not applicable.	No sorting, all the ROM is crushed and sent to the mill.	yes, no sorting.

7c	Different grade of mineral sorted out at mines.	not applicable.	Nil	Nil
7d	Any beneficiation process at mines .	Nil	nil	All the materials are sent to the crusher and send to the mill for final making final product.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Yes, proposal drawn for systematic mining & beneficiation.	The mined out minerals is passed through crusher at the initial stage & later the mineral is passed through mill for further processing.	yes the work in the mine & the mill are satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed to place/ dump along the ML boundaries.	yes it is followed.	yes the top soil, which is black cotton soil is placed along the ML boundaries.
8b	Concurrent use or storage of topsoil	yes proposed for concurrent storage of TS.	yes it is being followed.	yes followed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for OB, WR, R & fines.	OB is top soil, which is being collected dumped & used wherever required. There is no other things, except the useable limestone.	Yes only black cotton soil is being collected & preserved along the ML boundaries.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals.	Nil	nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals as such.	nil	nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	There are some plantations available in the existing area.	In addition to the existance, additional plantations are also being carried out in the top soil dump & office & plant, colonies, schools etc.	yes it is done additionally in the above said places.
8g	Survival rate	85%	88%	same as above.
8h	Water sprinkling on roads to control airborne dust	yes proposed for mining & related areas.	yes it is being carried out in the ML area.	yes it was observed in the fields.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	yes proposed to maintain.	yes it is maintained very effectively.	No doubt, the aesthetic beauty is well maintained in the ML area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee company submitted MR upto Aug,15 & AR for the year 2014-15.	In AR, para 4.1, reported 63 nos. of bore holes for the year, but during the field visit, the mine manger & the geologist present during the inspection, could not show, the holes, except few holes only.	As per the locations reflected in the geological plan, they were not show to the inspecting officer.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	S/ Shri Manish Toshniwal is mentioned as Manager cum Mining engineer. Ravikant Shukla as geologist.	Yes, the abve people were present during the inspections.	the technical people are present in their respective workings.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	152.65 ha is used for pits, current workings. No reclaimed area is reported, No dumps ,execept soil for 23.96 ha. occupied with plant, buildings. for PMCP area is 7.23 ha.	It was observed in the field about their p[erations.	land use pattern are used carefully by the ;esse company.
9d	Scrutiny of Annual return on afforestation	within the lease for the year 13500 nos. with 90% survival rate. 25649 nos. in outside ML area with 75% survival.	Yes, it was observed inthe field for plantations and its survival.	Lessee company taking care for protection & its survival.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NOt applicable.	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL, opening & closing stock.	Every mineral produced is sent to plant for processing.	Yes all minerals has been crushed and sent to the plant for making final products.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	the sale price not reflected, due to captive plant. Rs.157/t & cost of production also, same price.	This is captive mines, all the figure indicated found to be reasonable.	Whatever, reported found to be reasonable.

9h	Scrutiny of Annual return on fixed assets	In part-IIA it is reported value of fixed assests as 23789894000, for the mine, beneficiation plant, mine workshop, power & water installations. depreciation on fixed assests in Rs. 986743000 respectively.	As pe the mine visit, the figure reported may be found correct.	Reasonably good.
9k	Scrutiny of Annual return on mining machineries	Blast hole drill s, crusher, dozer, dumper, explosive van, front end loader, water tanker, tractor & hydraulic shovel. with various capacity. and different numbers. both electric and diesel.	yes, so much machines are put to use in the mining operations.	during the field observation, those machines were in operetions.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	04/12/2015				
Rule 23F(2)	04/12/2015				
Rule 45(7)	04/12/2015				
Rule 27(4)	04/12/2015				
Rule 45(7)	04/12/0015	19/02/2016			
Rule 13(1)	04/12/0015	19/02/2016			
Rule 27(4)	04/12/0015	19/02/2016			
Rule 23E(2)	04/12/0015	19/02/2016			

Date :
(C. PARAMESHWARAN)

Indian Bureau of Mines