

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/CDP/LST-22/HYD

Mine code : 38APR04015

- (i) Name of the Inspecting : **M015**) **MANISH K. MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **SHTRI SUDHAKAR AND OTHERS**
Official with
Designation
- (iv) Date of Inspection : 25/10/2019
- (v) Prev.inspection date : 13/02/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHARTHI CEMENT**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : CUDDAPAH
Village : Nallalingayapalli
Taluka : Kamalapuram
Post office : Nallalingayapalli
Pin Code : 516289
FAX No. : (0430009770)
E-mail : bharathicement.com
Phone : (040)30006999
- (f) Police Station : KAMALAPURAM
- (g) First opening date : 02/02/2009
- (h) Weekly day of rest : SUN
2. Address for : 269/S/98, Sagar Society
correspondance Road No.2, Banjara Hills,
Hyderabad-500 034
3. (a) Lease Number : APR2536
(b) Lease area : 632.28
(c) Period of lease : 30
(d) Date of Expiry : 28/03/2036
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : Raghuram Cement Ltd
 269/S/98,Sagar Society ROAD
 NO.2,Banjara
 Hills,Hyderabad HYDERABAD
 TELANGANA
 Phone:
 FAX :

Owner : RAGHURAM CEMENTS LTD
 269/S/98,SAGAR SOCIETY ROAD
 NO.2, BANJARA HILLS
 HYDERABAD CUDDAPAH ANDHRA
 PRADESH
 Phone:
 FAX :

Agent : SRI M.SAI RAMESH SR VICEPRESIDENT (WORKS)
 NALLALINGAYAPALLI(V)KAMALAP
 URAM(M) YSR(KADAPA)DIST
 ANDHRAPRADESH CUDDAPAH
 ANDHRA PRADESH
 Phone: (08563)200400,200411
 FAX : -

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/03/2006
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	22/01/2007
	:	FMCP under 23C(1)	04/07/2011
	:	Modif.of approved Mining Plan	29/07/2011
	:	Mining Scheme rule 12 MCDR1988	04/09/2013
	:	MP review under 17(1) MCR 2016	29/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Entire lease area is explored under G1 level of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil in 2018-19	Nil in 2018-19	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Entire lease area is already explored.
1e	Balance reserve as on 01/04/20	Reserve as on 30.9.2017 - 202.01 million tonnes	Reserve as on 30.9.2017 - 202.01 million tonnes Depletion - Oct 17 to Mar 18= 2.238 million tonnes 2018-19= 6.85 million tonnes Balance reserves as on 1/4/2019 - 192.93 million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		Exploration has been carried out in the lease area with 251 bore holes entire potential area has been explored. In the recent approved mining plan also no future exploration proposals are submitted.	Orders issued regarding change of name from RCL to Bharathi Cement Corporation Ltd. The file for name change to BCCPL is pending with State Govt.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Work proposed between 1st location N-E 11184 11469 E 5257-5469 2nd location N10540-10962 E 5641-5469	Work between 1st location N-E 11184 11469 E 5257-5469 2nd location N10540-10962 E 5641-5469 has been carried out within the approved proposals. However, working between E4500- E 4800 & N 10800-11200 was not proposed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate bench in topsoil and mineral benches are proposed to be maintained.	Topsoil and mineral benches are worked separately .
2c	Stripping ratio or ore to OB ratio	Nil	Nil
2d	Quantity of topsoil generation in m3	203158 cu m	233356 cu m
2e	Quantity of overburden generation in m3	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2018-19= 5035502 T 2019-20= 5001025 T	2018-19= 4611806 T 2019-20 (till september)= 179801 T	
3c	Recovery of sailable/usable mineral from ROM production	100%	Entire ROM mineral is being used as such	

3d	Quantity of mineral reject generation	No proposal	Nil generated	
3e	Grade of mineral rejects generation and threshold value declared.	no proposal	nil generated	
3f	Quantity of sub grade mineral generation.	Nil Proposal	Nil Generated	
3g	Grade of sub grade mineral generation	no proposal for subgrade generation	Not applicable as no subgrade generation reported.	
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation proposed	No segregation done.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	not applicable	So far no subgrade mineral reject dump is there in the lease.
3j	Provision of drilling and blasting in mineral benches	It is proposed to carry out drilling of blast hole by 150m drill equipped with wet drilling system . Blasting operation is proposed to be carried out using ANFO and slurry/ cast booster in combination with delay detonators .	Drilling operation is being carried out with 150m dia drill . Blasting is carried out using slurry explosives with Nonel initiation system.	

3k	Provision of mining machineries in mineral benches	Excavators 6.5 cum capacity 3 nos, dumpers - 15 nos dozer - 1 no, roader- 1no, grader-1 no proposed	lessee has deployed Excavators 6.5 cum capacity - 3 nos, dumpers of 55 tonnes capacity - 10 nos dozer - 1 no.	Soil compactor have been additionally deployed for road maintenance.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	maximum 10 meters bench height is proposed	Boom height of excavators of 6.3 cum capacity is technically suitable for development of a maximum of 10 meters bench height.	
3m	Total area covered under excavation/pits	102.80 hectare proposed under excavation. 8.65 hectare for top soil dump	97.5 hectare is under pit and top soil.	
3n	Ore to OB ratio for the pit/mine during the year.	No OB	No OB	
3o	Total area put in use under different heads at the end of year	Total area put to use for different purpose was 118.75 hectare by the end of 2022-23	However the total area put to use under different heads is 106.6 hectare.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 4950957 T 2015-16 - 4999616 T 2016-17 - 5002379 T 2017-18 - 5095099 T 2018-19 - 5035502 T	2014-15 - 2795000 T 2015-16 - 2788500 T 2016-17 - 3120500 T 2017-18 - 4038306 T 2018-19 - 4611806 T	

3q	General remarks of inspecting officers on method of mining etc.	Site deviation has been observed which is reported as due to the quality issue and the urgent plant requirement. However the lessee is having the machinerie of adequate size to meet the plant requirement.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No overburden generation is proposed, only top soil is there in the lease area of about 0.5 to 1.5m height	Top soil is partly used for plantation and remaining is being stocked in the earmarked place.	
4b	Location of topsoil, OB and mineral reject dumps	top soil stacking proposed in N10504-10705, E4873-5174	top soil id being done at the proposed location	
4c	Number of dumps within lease area and outside of lease area	no overburden dump proposed.	No overburden dump created in 2018-19. A mineral dump is there outside the lease area near to crusher and office. On inquiry it has been reported that the mineral is royalty paid and lying there since the beginning of the lease.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	dumps proposed at the site proved for absence of mineral.	dumps are there in the non mineralised land and on the excavated land as proposed	
4e	Number of active and alive dumps.	Two top soil dumps Active - 2	Two top soil dumps Active - 2	
4f	Number of dead dumps.	Nil	Nil	

4g	Number of dumps established.	Two	Two
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for 2018-19	Not applicable
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	NO proposal	not applicable

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.	Full extraction of mineral is proposed before backfilling	mining in the area has been developed from the foot wall side and backfilling has been done as proposed.	
5b	Area under backfilling of mined out area	No proposal	About 6 hectare area is backfilled and is in the process of rehbaillitation.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	Being done accordingly.	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Black coton soil and calcerous soil is occuring in the area which is being stacked and used for backfilling and stablisation of the part of excavated area.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	required to be submitted as per rule	Submitted.	
6b	Area available for rehabilitation (ha) .	0.6 hectare of waste land was proposed to be rehabilitated by afforestation.	NIL	
6c	afforestation done (ha).	0.6 ha in 2018-19	NIL in 2018-19	However 1000 saplings have been planted outside lease area.
6d	No. of saplings planted during the year	400 saplings within lease in 2018-19	No planatation done within the lease area.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	no proposal	2.0 lakhs reportedly incurred	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring in respect of Air, Water Noise is proposed to be carried out	Regular monitoring is being done.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM prpduced has to be dispatched to the crusher outside lease area for consumption in the plant. NIL generated.	Entire ROM produced is used.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No mineral sorting proposed.	Not done.	
7c	Different grade of mineral sorted out at mines.	No proposal	NA	
7d	Any beneficiation process at mines .	No proposal	NA	Not required as no mineral reject.sub-grade ore is there in the lease area .
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Entire ROM is utilised to feed the plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	top soil was supposed to be worked separately as per rule	Top soil being worked and stacked separately.	
8b	Concurrent use or storage of topsoil	Top soil is proposed to store and partly utilisation for plantation purposed.	Top soil is being stored as well as utilised for plantation. 166623 cu m is shifted to reclamation and 56733 cu.m to the top soil dump in betwen N 10300 - N 10100 E 5275 - 5500	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposal for separate topsoil stacking was there	being done accordingly.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposal	not done.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	400 saplings are proposed for plantation in lease area.	Cumulative plantation in ML is over 34 hectare area and about 34,291 saplings planted.
8g	Survival rate	no proposal	85%
8h	Water sprinkling on roads to control airborne dust	Water tanker is to be provided to suppress the dust generation during mining operation.	Water tanker is provided to suppress the dust in lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR are to be submitted regularly.	MR and AR are being submitted regularly.	MR submitted on 4/10/2019 for September 2019
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : Sri Kalidindi Sudhakar Geologist: Sri V Vijaya Bhaskar	Mining Engineer : Sri Kalidindi Sudhakar Geologist: Sri V Vijaya Bhaskar	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 91.790 ha Reclaimed/Rehabilitated 5.960 ha Occupied by plant, buildings, residential, welfare buildings & roads 6.850 ha Work done under progressive mine closure plan during the year 2.000 ha	Broadly as per submissions.
9d	Scrutiny of Annual return on afforestation	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Balance NIL, Production reported as 4611806 T and closing balance NIL	Opening Balance NIL, Production reported as 4611806 T and closing balance NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production reported as Rs 147.45 PMT	Cost of production has been given in generalised way for the key items, depreciation etc not furnished.
9h	Scrutiny of Annual return on fixed assets	data furnished	---
9k	Scrutiny of Annual return on mining machineries	Information furnished	machineries provided as reported.

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
MCDR17	Rule 11(1)	08/11/2019			
	Rule 45(7)(i)	08/11/2019			

Date :

(MANISH K. MAINDIRATTA)

Indian Bureau of Mines